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A ND IF HE WILL TAKE THE TWO MACHINES 1 . ${ }^{2}$ every De Laval agent will be glad to have De I aval one, and run them side by side in practical use, the couple of weeks, he will see still machine the next, for thing that enters into cream separator practicability and usetulness
THF. MAN WHO TAKES EVEN THE FIRST STEP he De Laval and for himself the difference between his money into any other machine one time in a thousand THE COMPARATIVELY FEW BUYERS OF OTHER claims ing for a commission, and who do not think it worth while to see the difference for themselves
HE WISE BUYER OF A CREAM SEPARATOR TO
day does see this difference when rator whie this difference when buying his first sepaworth while to do so when he comes to buy a second separat or a year or two later
— VERY DE LAVAL AGENT CONSIDERS IT A PRIV ilege to show the difference between the De Laval and the opportunity to try, and to afford every prospective buye satisfaction, if on first examination he feels the slightest doub

THAT'S THE REASON WHY FOUR BUYERS OUT OF 1 five are buying De Laval Cream Separators in 1914 and nearly as universal on the farm as already is the creamery ant

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# The Farmers Advocate Home Magazine 

Vol. XLIX

## EDITORIAL

Get the weeds while young and tender
Put in a few swede turnips early in June.
There is a wide difference between broker's stock and live stock

Spraying should spread to potatoes, as it has done to all kinds of fruit growing. It is essential.

What with gold bugs in the parliamentary lobby and June bugs on the farm, the man with the hoe must keep his weather eye open.

If there is a slack time just now, it would not be out of place to look over the haying machinery and see that it is all ready to take the field.

The trouble with speculations is this: that time and energy that might better be devoted to one regular business.

Are people who borrow money to put to good use as an investment in farm improvements and equipment most progressive, or does a high rate of interest hold up agricultural development?

Forty-five per cent. of Ontario farms are mortgaged, but the mortgages are small and
growing smaller. A prosperous farming commungrowing smaller. A prosperous farming commu
ity means good business all the way around.

It is said that the money required to build and maintain one dreadnought would found, equip and operate a university on a par with
Harvard. Do we want dreadnoughts or Har-
vards?

It is sugely about time that members of parliament dropped the childish and useless habit of spending so much valuable time proving that they other fellow" was as bad or worse than

If a railway contractor worth several millions is not yet on "easy street," how can a farmer with six hundred dollars in the bank be considered in that class? What a difference in
measuring wealth? measuring wealth?
A late season generally brings rapid growth and rushes the farm work. Be ready for the hhead of time. Better hy far to be a day or so earl. than a week late.
"One side proposes, the other acquiesces." If
this is so are our representatives in parliament working ior the good of the country, the good of " "The Authority," or the good of the poiitical parties which they represent?
Truly this is a funny world. Parliaments bonus promoters to pay lobbyists to lobby par-
liament for more honuse endless chain more bonuses and concessons-an carries the people's money and dumps it in the coffers of Big Business like an elevator carries

LONDON, ONTARIO, MAY 28, 1914

## Ontario Farm Finances

 In the annual report of the Minister of Agriculture for the Province, of Ontario there appearsan estimate on the financial condition of the an estimate on the financial condition of the
farming community of this Province which will farming community of this Province which will
be of interest to our readers. According to inbe of interest to our readers. According to information obtained by the various District Repreince, 45 per cent. of the farms in Ontario Provmortgaged to some extent and of these mortgared farms the mortgages would amount to oregaged third of the total value of the property. This means that mortgages against farm property in Ontario represent only about 15 per cent. of the total value of that property which as the Minister states is a very encouraging sign,
Another fact of interest is that a considerable percentage of thesp mortgages are held by farmers. Opinions over the Province were unanimous, that mortgages are steadily decneasing, payments were being met promptly and mortgages in large numbers are being wiped out each year
Bank deposits havio increased materially in recent years. : In one county the bankers estimated that deposits had increased from 20 per cent. to 30 per cent. in the last few years. In another cent. of the money deposited in cal put in by farmers and in still another county it was estimated that 75 per cent. of the farmers had savings running from $\$ 700$ to $\$ 12,000$ each The total amount of money deposited by Ontario farmers was estimated at $\$ 100,000,000$, and the aggregate wealth of farm property in this Province is estimated at $\$ 1,405,950,940$. The amount of money on deposit represents an average of about $\$ 600$ per farm, but all the surplus money is not in the banks although unquestionably a

Are You on "Easy Street"
After reading the foregoing figures relative to the financial condition of the farmers of Ontario, many city people were la a
daily papers went so far as to make the statement that Ontario farmers were on "easy street." Very few of the men actually engaged in farming would agree with this statement, and if the people responsible for it or who believe that it is the case were daily facing the multiplication of problems which from year to year must be met squarely by the man on the land, the difficulties in a better posifor understand would not begrudge him the money which he is able to save from his yearly operations.
It would be interesting to know the average ages of the owners of farm property, whose financial returns have been so estimated. We
hear the cry day after day that the young people in the rural districts of this Province are leaving the land as fast as they can, and that in many sections the population is smaller than it was some years ago. This being the case it must be a fact that the middle-aged and older men ave the farmers and farm owners of the present day. Taking lins ese membering the fact that these rien have spent their lives on the farm, $\$ 600$ per any too large if compared with the thousands and millions made by some of the successful men in other lines of endeavor. If it takes a man practically all his productive years to pay for a farm of from fifty
hundred acres, and valued at an average of from $\$ 5,000$ to $\$ 6,000$, and he can with this save only $\$ 600$, and if he owns and works the farm himself , is still forced by circumstances to work
most of the time, we can scarcely most of the time, we can scarcely see, in it a der present-day conditions is almost farced to der present-day conditions is almost forced to
work and work hard, no matter whether he has work and work hard, no matter whether he has
money in the bank or not. Labor is scarce and work must be attended to, otherwise sufflcient interest cannot be made on the investment to maintain the place, and get a living for the farmer and his wife.

And the wife and family must be considered in these statements of finance. Has the former not in many cases worked just as hard and longer hours than her thrifty husband? Has count might be accumulated after the mortgages count might be accumulated after the mortgages
and notes bad all been met? Yes, in many and notes had all been met ? Yes, in many
cases she has worked all too hard. And then there is the family. Even where the young folks have gone to the city they generally have spent a few very useful years on the farm, many until they were over twenty-one years of age, and f:om the age of fifteen or sixteen until they left home done a man's work. On those farms where the boys and girls have stayed at home, the farm and the little money in the bank repre-
sent the earnings of the whole family, and on any of them represent the work of the man and his wife, and usually a few years labor of their children as they reach the age of productive effort.

True conditions are improving on most farms; prices are hígher and expenses are greater, but much of the former drudgery has been eliminated from farming, which we are always pleased to uphold as an occupation, but lest some may be led to believe that the farmer is getting too much, is growing rich faster than he should, it is better that all sides of the case be considered. And again it is with their occupation on the farms should know and understand that farming is making steady progress in this country, and that witty hard work and close application it is possible to make a living, pay for a home, and save a little money as well as enjoy the freedom, fresh air and beauties of nature which we hear so much about in this twentieth century. The figuras given are worthy of no little attention, and should serve to show that, all things consldered, wages for all those who sork, and interest on in-
vestments, the farms are not making their owners unearned fortunes, are not making capitowners unearned fielding returns which ensure a good living for their operators and a little besides, which, as before stated, if interest and wages were deducted, would be far from the "get-

## rich-quick" order. <br> $=$ Does the Absence of Mortgages Indicate Prosperity?

It is just a question whether an estimate of ne number of in the country. It was brought out at the recent conference on Marketing and Farm Credits in Chicago that the districts which show the largest percentage of mortgages were usually the most aggressive and progressive. They were going ahead. The money was being used to good advantage in the farming business. If a man can borrow money at a fairly low rate of interest and can use it on his iarm to make

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 Addrese-THE FARMER'S ADVOCATE

HE WILLLAM WELD COMPANY (LíMITED),
LONDON
CANAD
ness to do so. There is room for thought right
here. Have Ontario farmers been too conserva-tive-too ready to "stand pat" and not willing to put more money in equipment and improve ments, or have the rates of interest been so high that the supreme object was to get rid of notes though a little borrowed money could often be used to good advantage? Add the one hundred posit in the banks to the billion and one-half they have invested, and it would only be a be ginning towards the proper equipment of the
farms. Could a good deal more not be profit ably invested on our farms? We agree that some farms are over-equipped and cannot be made
pay, but a far greater majority would be the pay, but a far greater majority would be the
better of added equipment. Would this not mean more borrowed money? Atter an is this statement sufficient upon which to base our pros perity? Mortgages are said to eat like cancers,
Ontario farmers seem to be successfully fighting them. Study the figures, consider the statement made in Chicago and ask yourself: Mr. Farmer re you progressive, are you making the most your farm?

People are continually being warned that fruit growing is being over done. In the introduction of a new work on strawberry culture the en-
couraging axiom is laid down that "demand is increased by a crop of well-grown, well-packed and properly sold frui

If one has the money to spare, instead dabbling in stocks, about the real nature o
which we are unacquainted, why not invest it in farm improvements, equipment or live stock, of
in the comfort and beautification of our homes There is a certain and gratifying return from

## Medical Inspection of Schools.

Whether the speeches that some of our Health Officers are making on the condition of the schools and pupils are correctly reported or not we cannot, say but we are disposed to hope that the reports are exaggerated or to this, ex correctly reported, the opinot the ingents ceptional experiences. Most olion arguments lead to a ploa for here and ing owcers deal and and throat inspectors, lung
inspeatile is in
While it is impossible exaggerate the inticularly the health of the youth yet before creating new stafis of inspectors or otherwise complicating the machinery of inspection and increasing the expense it is worth while to inquire whether the teachers and the inspectors we already have are competent, or can be made competent, to do what inspecting is required. Cannot the teachers who are constantly with the children detect shor sightedness or astigmatism, mouth-breathing or carious teeth? If they can it is certainly better than that it be removed to occasional visitors whose calls will be made at times when some of the pupils are absent.
It has to be admitted that there is better ground for believing that the teachers can be made competent for these duties than that they becoming tpachers receive their academic training in the high schools and so far as we know, Onteach human physiology and hygiene in its high schools. If this defect were remedied then in the normal schools the teachers-in-training could be trained to test eyes and ears and examinio teeth
and throat. Illustrated bulletins, clearly describing symptoms in popular language and advising pared by the Provincial Board of Health and issued in quantity to the schools, sufficient for distribution from time to time to all the homes brought up. This literature would start and
and guide health inspection in the very best place and where it most properly belongs-namely in the home. Every step taken to place the responsibil
ity for the health of the children directly on the parents and teachers is a wise one. At any rate we believe that it is the duty of the Education Department to devise methods of makng the max-
imum use of the regular teachers and school inspectors in the matters under consle, then the creation of staffis of special inspectors and nurse. may have to be considpred, but first the teache should do his part and the inspector
cise his authority where necessary,

## Nature's Diary.

A. B. Klugh, M.A

In the woods, and more particularly in openhgs in coniferous woods, the Dwarf Cornel patches. This little plant is attractive eve when it only occurs scaltered through the wood triking feature of the early summor lanilscape
"The Catbird sings'a crooked song, And when he can't control his voice Then nods his mews just like a cat and lets it go at that

So writes Oliver Davie of the Catbird. This pecies is a variety artist among the bird perinclude a wide range of notes from those which it pours forth in its beautiful song to "clucks" and catcalls. Another vaudeville charact.sristic is its imitations of the songs of other species. ures of the head and tail. Even when singin his tuneful melody he will interject into it harsh 'mi-au-aw'
The Catbird is a very alert species and is always on the watch for intruders upon his
domains, and protests against intrusion by most emphatic "mi-au-aws." It chooses a nesting site in a low tree, shrub or brier, where the nost is usually built at about four feet from the ground. he nest is node of sticks, coarse grass, weeds, strips of bark, and is lined with soft rootlets. Concerning its economic status, the Catbird is on the fence" since it does both harm aad gool. The food of the aduits consists very largely of garden varipties. However thore is a w o prevent entirely its depredations $u_{i}{ }^{\circ} ; n$ cultiated fruits and at the same time to benefits fom Elderberries or Russian Mulberries along the ences, as the Catbird, and also the Robin, prefer the fruits of these species to that of any' cultiated varieties.
The greatest good done by this species is in eeding its young, since they are fed almost exfood of the young was investigated, sixty-two per cent. was found to consist of cutworms, one-
of the most annoying of all garden pests.
The young Eels are now ascending the rivers. home is in rivers and lakes, but which runs down o salt water at spawning time. In this it is the exact opposite of many fishes like the San upthe rivers to spawn. The method of reproduction of the Eel was for ages a puzzle. Among the Greeks, who understood well enough the reproduction of most of the fishes, the Eel was supposid Pliny, a Roman writer on natural history', maintained that the young Eels sprang from the slime and fragments of skin which come of when the adult Eels rub against rocks. Some Writers in born alive, and in the seventeenth century, Leuwenhoek mistook certain parasites in the Eel for the young. Not until 1877 was the life history ollows el Thly worked in the fall in salt water, usually off the mouths of rivers, on mudbanks. Here the aggs hatch and at the beginning of the second spring the young Eels find their way to the mouths or . In the fresh-water streams and lakies they remain until of adult size, when they return to the sea to spawn. During this seaward migration they do not take any food, and when they arrive in salt water they do not remain near opment of the ovaries and testes takes rlace remarkably rapidly. When they reach the sea these organs are but very little developed, but within
five weeks after reaching salt water the Eels are five weeks after reaching salt water the Eels are
sexually mature. The spawning then takes place

Dwarf Cornel.
The parts of this plant which .ook like petals are really large white bracts, which surround thy in the season, the plant bears con and the old males and females die, nevpr returning to fresh water a second time. It was be-
cause they did not know of this very rapid develcause they did not know of this very rapid development of the productive organs that the
writers were at a loss as to the method of reproduction of the Eel.
The Eel is remarkably prolific, the number of eggs produced by a single fémale being about
$10,700,000$. lines! gers, feeding upon all sorts of refuse but prefer ably on dead fish or other animal matter. They
are great destroyers of the spawn of other fishes, are great destroyers of the spawn of other waters
and in this way are a serious menace in wat
where fish-culture is being carrind on. They also where fish-culture is being carripd on. They also
frequently eat all but the head and backbone of frequently eat all but the head and backbone
fish caught in nets before the nets are hauled.

About election time the country's future hangs tromulously on the height of the tarifi or the
old flag, but between times, as the chairman of the Toronto Manufacturers', Association the other
day declared, day declared, the return of the country's prosper-
ity depends upon how good the farmer's crops

ity depends upon how good the farmer's crops:

## The Last of the Barons.

 by Peter Mcarthur It is a long time since anything in Canadian public life has attracted such wide-spread attention as the stand taken by W. F. Nickle, of Kingston and R. B. Bennett, of Calgary, against the Goverment's proposals regarding the Canad ian Northern Ralway. Liberal or a Conservative who disapproved of their action. The people, and I cannot believe a maja a man with so fine a sense of public duty as Premier Borden can harbor any resentment to his high-spipitited supporters who have ventured to assert their right to oppose him on a debat able question of government pohicy. They have acted entirely within their rights as men and as representail constituents will endorse their doub that their it is recognized everywhere that Mr, And yet it is recognized, everywhere that $\mathrm{Mr}^{\text {Nick }}$Nickle and Mr. Bennett have risked their politi Nicklo and Mr. Bennecause they have ventured to deff Sir William MacKenzie. Here is something for free-born Canadians to think about and to think about seriously. Here is a man who occupies no position of public trust, a man who possibly could not be elected pound-keeper if he ran for office, and yet he bulks so large in ou public life that our elected represestataves fear him even when they are standing on the privileged
floor of parliament. Without hereditary prestige floor of parliament. Without hereditary prestige
or record of high public services, he presumes to play the role of Warwick to our government. He
will make or he will unmake. He imposes his will on political parties and they do his bidding. lher vastness of his encerprises dazzzes the pop an object of admiration and envy. With hi partners, Sir Donald Mann and Zebulon A. Lash and a few associates he has extended his powe
into every field of Canadian eefort until a point into every field of Canadian effort until a point
has been reached where the financial credit o the nation is involved. The government mus come to his aid or wide-spread ruin will follow
the collapse of his daring business adventures the collapse of his daring business adventures
And although it has been shown that support $h$ And hithough received from the people has been secured through shameless mendicancy and mend
acity he claims further aid as a right. From a acity he claims further aid as a right. From private car pauper he has developed into a fin
ancial panhandler who adds threats to his plead mgs. One of his lieutenants recently threatened to "get" Mr. McCoig, of Kent, because he ha brought on a premature discussion of the C.N.R.
guarantee and Mr. Nickle explained in the House guarantee and Mr. Nickle explained in the House
the preparations that have been made to "get him. But in this Sir William has over-stepped himself. I miss my guess, if the people will long endure this baronial insolence. For some years past he has probably exercised more power than
any other man in Canada but his abuse of that power should make him the last to wield it Warwick was the greatest of the Barons-and the last. When the people finally understand wha
he has done, our mushroom Warwick will go the way of his greater and more chivalrous $\underset{\substack{\text { way } \\ \text { prototype. }}}{ }$

Sir William MacKenzie denies having threatene Mr. Nickle, but it has been shown that in his
dealings with the government, Sir William has Cealings with the government, Sir william hai tion of anyone else does not carry much weight.
No one who has had any insight into the workNo one who has had any insight into the work
ings of the railway lobby at ottawa can doubt Ir. Bennett described this lobby as one of the most powerful and shameless that has existed on the continent-only equalled in audacity by the
lobby of the Central Pacific that disgraced Wishington a few years ago. And it is as thorroughly perfectly desoribed by the Hon. Joseph Choate late ambassador to England, in the witty com
ment " "When Hopkins takes snuff in San Francis,
co Ma, Huntington sneezes in Mashington. a sensitively organized from Halifax to Va couver and when it threatens to "get" a man it
is no idle threat is no idle threat. Only those who know the
true state of affairs in Ottawa realize the splendid courage of Mr. Nickle and Mr. Bennett
in darin in daring. to oppose the wishes of those who con-
trol thic trol this lobby and direct the power it wield In stating his position, Mr. Bennett made a
few stalements that every partisan should read tew statements that every partisan should read
and digest. LBoth sides of the House have been to blame.
been given to this company. Just e fom dow before an election, ompe party, proposess and tays
other accuiesces. They are bound to ask the other acquiesçs. They are bound to ask a few
questions in order that the contribution to the party funds may be large enough. Let us look
the the business squarely in the face. The time has come when people must take stock of the condi-
tions, and now, faced as we are with conditionsuch as we never met before, we must decide tory wealth will continue to add to the pred strike a blow for the people of the country." Bennettes words. In ounce sat confirmation of Mr thennetts words. I once sat in the gallery of
the House when a railroad measure was being put through-just before an election. The program was carried out just as he describped it. The Government proposed certain measures of aid to
different railways and the Opposition protested with about the same vigor as you would find in a bunch of trained seals. Campaign funds were at stake and anl opposition speeches were railways sat in the gallery the lobbyists of the fut ways sat in tote gallery watching the disgracetheir pieces acceptably.

The words quoted should make
everyone how the lobbyists
veryone how the lobbyists gain their power. It There is no longer any possibility of of blink fing the fact that no political party can hope to succeed in an election without ample funds. The legitimate expenses are too heavy for any candidate to
bear. They must be secured somehow, and in that fact lies the source of all the corruntion that has blackened the political history of na-
tions. It is useless to pass laws compelling pubtions. It is useless to pass laws compelling pub-
licity of campaign funds.
That only compels hicity of campaign funds. That only compels
greater secrecy. The voters
must contributp the funds themselves. If each man who supports the political party would contribute from one to five


Rising Tide.
dollars to the party funds the lobbyists would ind their occupation gone. At the present mom ent I am not particularly interested in the fiva form which the C.N.R. guarantee shall take. ernment to give aid of some kind to prevent disaster. If the Opposition truly realizes its position it will do all in its power to aid the govern ment to make the best bargan pold unito in parties are to blame and they twat concerns us as citizens, is the absolute necessity of semiding men to parliament who have no political debt: to pay. Both parties have a necessary work to do and they should both be in a position 10 do William MacKenzie or any other member of "Th Authority." The political organizations in the various ridings should take immediate sups to gather the neessary
from the voters in the riding so that their repre irom the voters in the place in parliament with-
sentative may take his sentative mander obligations to anyone but th
out being und voters who send him there thenstuencies represented
 they have ${ }^{\text {h }}$
the Barons.

## THE HORSE.

## Indigestion in Horses.-II

acute indigestion
Acute indigestion is one of the most common and most fatal diseases of the digestive organs of the horse. As digestion in the horse takes place largely in the small intestine it is often very difficult to determine in cases of this nature,
whether prether the trouble is confined to the stomach or whether the intestine is also involved. This
is not very important, as alliections of this nature in both organs are concomitant and require the same treatment so far as treatment by an fined to is concerned. When the trouble is con-
fomach the modern veterinarian can act directly by the use of a stomach tubs. While
this treatment he practically this treatment
contents of th veterinarian should attempt to adopt this treat$\underset{\text { CAU }}{\text { ment. }}$
food grees-The usual causes are too much food food greedily swallowed without proper mastica-
tion; feeding immediately atter severe and longcontinued exercise; severe axercise too' soon after a hearty meal, espocially if the horse has been given something to which he is not accustomed;
sudden change of food; (I muy here state that change of diet in horses, and to a great extent in all animals, should be made gradually) $)^{\text {d }}$ drinking large quantities of water too soon atter feed-
ing, etc. It is not uncommon to see a well ing, etc. be given. One of the most frequent canuses of the dispase is what may be called mistaken kindness on the part of the owner. For instance, a
horse that has been idle for some time und given nittle or no grain is unexpectedly required to go a journey or do a day's, work. Tin ordor, tothertify
him it or the
usual
exertion, he usual exertion, he
is given a full feed is given a full feed
of grain, hitched
and driven, and driven. The
stomach is eharged stomach is charged
With grain to Whith grain to
which it is not accustomed, and $t h e$ customed and
horse subjected $t \mathrm{he}$
t unaccustomed exer-
cise. These $t \mathrm{w} 0$ cise, These
conditions in many
cosee caus. cases causes, "acuate
indigestion". oct
an the horse wit h -
stand this usage he
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 withed
this, but we not but wo murprised it
ne does not horsees und.er When
che
condition described
are are
service,
be
ber be taken to sone should
very lighty od
 performed, then, in
order or tompen
sate for the extr sate for the extr
labor they shoul
be fed a moderat few days. Some horses are especially predisposed to digest-
ive derangement, as those whose digestive organs lve derangement, as hyone whose digestive organ are weak either congenitally or temporarili, or
when the organs have beome weakened by dig catese, wear, anemic, poorly-fed and emaciated
nimals; very young or very old animais, horsees animals; very young or very old animals, horsee
recovering from diseases, etc. Among the direct ecovering from diseases, etc. Among the direc hat are hot or that are frosted, unclean o partially decayed foods, impure water, mould hay or grain, matters undergoing fermentation or decomposition, as roots, fruit, grass or germin
ting grain. In cases that no well-marked cause can be given, we must conclude that there in some temporary weakness of the digestive organi that, while producing no visible symptoms, rende
the horse in that condition in which indizes the horse in that condtion the same time it seldom, except in horses congenitally predisposed that an attack occurs that cannot be traced carelessness or ignorance in feeding or usage.
SYMPTOMS-The symptoms of many disea of the digestive organs simulate each other, so much that it is otten difificult to say for a few hours just what the disease is. Hence the advis-
ability, when convenient, of procuring expert ability, when convenient, of procuring expert
assistance, as an attack of a serious nature may assistance, as an attack of a serious nature may
be mistaken for a simple ailment, and if not
energetically and skilifully treatad may reach that stage in which treatment will be of no avail. In other words, there are many attacks of diges-
tive troubles the symptoms of which are not type troubles The first symptoms of acute indigestion usually are: uneasiness, dullness, stamping of the feet, lying down, rolling rising again looking around to the flank, etc. The pulse increases in
both force and frequency, which, if relief be not given loses force but becomes still more frgquent. In many cases these symptoms are preceded by a semi-diarrhoea, the animal voiding semi-
liquid faeces frequpntly and in small quantiliquid faeces frequipntly and in small quanti-
ties. There is usually more or less fullness ties. There is usually more or less here marked on the right
(bloating) noticed, more mer in
side, but in other cases the formation of gases is side, but in other cases the formation of gases is
confined to the stomach, in which cases little ness of the abdomen is apparent. The pain is asually constant but of varying intensity. Eruct there is actual vomition of small quantities injesta. Either of these conditions indicate syrious case. When relief is not obtained the symptoms increase in intensity. In some cases
death occurs in from 1 to 2 hours after the first symptoms are noticed, while in others 24 to 48 hours or even longer may elapse before recovery
or death takes place. In cases that do not yield to treatment the violent symptoms are succeeded by dullness and stupor. The pulse becomes very frequent and weak, almost or quite imperceptible
at the jaw. The patient will either stand at the jaw. The patient will either stand o breathing short and frequently often perspiring freely, the visable mucous membranes highly injected, the ey'esight evidently impaired. This inprobably also the bowels has resulted and he wil probably remain standing or wandering abou until he falls and expires. In the meantime there is usually little or no passage of faeces :and the
intestinal murmur! is absent or of a metallic sound.
TREATMENT-Place in a large, comfortable box-stall or small paddock. Do not force exercis or prevent him from lying down. Grive 2 to
ozs. oil of turpentine (according to size of patient) mixed with a pint of raw linseed oil as a drench. It is good practice to foment the abwarm soapy hot wat and give injections of warm soapy water per rectum. If the pain be
severe give 1 to 2 oz. of chloral hydrate in a pint of cold water, or 2 drams of the solid extract of belladonna or 2 oz . or the tincture of elladonna. Do not give opium, as it checks the age. Watch him closely and if he becomes fast in the stall release him. If relief be not obtaine in at most two hours, repeat the doses and if once If this cen the treatment, repeating the doses every two hour as required, but after the second dose of turpen tine mix it with new milk instead of oil. Whe oating is excessive, the veterinarian will pun give a hypodermic injection of 1 to $1_{\frac{1}{2}}$ grains o eserine or arecolin, but few exxcept veterinarians have either the necessary instruments or the nec sary skill for these operations. It is goo drams of aloes and two drams ginger either moistened, rolled into a cylindrical shape rapped in tissue paper and administered as drench after the acute symptoms have pessed After a purgative has been given the patient
should be given bran only and water a little at should be given bran only and water a little at
time and often until purgation commences which is usually between 18 and 24 hours, but may be longer and it is not safe to remsat the dose until about 48 hours, when, if necessary a smaller dose may be given. The patient should
not be exercised until the bowels have mraained their normal condition and he should be carefully
fed and lightly worked for a few days afterwards

How Horses Sell

suffered most from the inroads of the automobile, and other types of light horses, outside of hunt-
ers and jumpers, are not wanted as they once ers and jumpers, are not wanted as they once
were. The point should be plain to those in the
business. The big horse is wanted he has a business. The big horse is wanted; he has a
place in the affairs of the world and will have place in the affiairs of the world and go by competition with other powers becomes keener and the scrub horse is the first type to suffer. This com-
petition should be a good thing for the horse busipetition should in the end, as a better class of horse must ness in the end, as a better class of horse must
be bred, and for this better ciass a market will
be sure be sure.
What the Horse Shoer Should Know
Editor "The Farmer's Advocate ' In all climates, when horses have to toil con tinuously on hard ground, and particularly if it be broken and stony, some kind of provision has
to be made against undue wear of the hoofs, and consequent lameness and inefficency. Horses are generally shod with iron shoes in the East ; and even where the soil is sandy, the Arabs avail themselves of this device; and their farriers hold
a high place in the social scale, because their a high place in the social scale, because their
services are so valuable in increasing the usefulness of the indispensable steed. Until the campaign in North China, in 1860, the Japanese employed sandals made of rice-straw for their
horses horses' feet. Though the hoors of their diminutive horses are remarkably sound and tough, yet
they found, from long experience, that in journeying on rocky ground these soon became so much started on a long journey among the mountains, started on a long journey among the mountains,
he was furnished witha a dozen or two of these
straw slippers attached to his saddle. When his straw slippers attached to his saddle. When his a pair of them on the front feet, and as their a pair of them on the front feet, and as their be performed at brief intervals. As present-day
shoeing is ordinarily practiced, it is a difficult shoeing is ordinarily practiced, it is a difticult
art-the difficulty being solely due to the mutilations the hoofs sustain at the hands of the farrier. As shoeing ought to be practiced, noth-
ing can be simpler or easier. The foot of the horse is a perfect organ, thoroughly adapted for its purpose, and man cannot improve it. It only needs protection from undue wear, and this pro-
tection is easily and readily afforded by arming tection is easily and readily afiorded by arming
the hoof with metal sufficient to last for a certain period.
The wall of the hoof is that portion which is placed on the ground. It is fibrous in structure, the fibres passing from above to below, as they grow from where the skin terminates. Ex-
ternally, the fibres are dense and resisting, but ternally, the fibres are dense and resisting, but
those nearer the interior gradually become soft and spongy. The growth of the wall is indefinite, it being the part which has to sustain
wear through contact with the ground. Wear through contact with the ground foot is lifted, the sole and frog are
Ween the on its lower or ground surface. The sole
sole seen on its lower or ground surface. The sole
is usually more or less concave in a healthy foot. It is fibrous like the wall, its fibres passing in the same direction; but they are much
softer, and their growth is definite, break-
ing off in the form of flakes when they have ing off in the form of flakes when they have
reached $\lrcorner$ certain length. The frog is a triangu reached $J$ a certain length. The frog is a triangu-
lar mass of somewhat soft and elastic fibrous horn, situated at the posterior part of the sole. Iike that part, its fibres are also of definite growth, and hatell sustains weight and wear on
to time. The wall all kinds of ground; the sole is adapted for sus taining weight on soft ground more pa:ticularly, while the frog has a most important use in act which flexes the limb, in diminishing jar, and in preventing sarping.
The unpared sole and frog of the healthy foot need no protection of any kind on soil. The
Ilakes of loose horn on the former serve a very useful purpose in retaining moisture, and so
keeping the solid horn beneath soft and elastic, while they act as so many springs when the foot
is placed on proiecting stones. The more the
is is placed on proiecting stones. The more the
frog is exposed to wear, the larger and
sounder it grows, and the hetter sounder it grows, and the better it is for the en
tire foot and limb.
The fore foot is of much more importance, in the The fore foot is of much more importance, in the
matter of shoeing, than the hind one, inasmuch
as it has to support as it has to support much more, weight, and is
consequently more exposed to disease and injury consequently more exposed to disease and injury.
The fore foot, when well formed, is nearly, if not The fore foot, when well formed, is nearly, if not
quite circular, the hind foot is somewhat oval,
the frog smaller, and the sole more concave. When the hoof is shod the wall is not exposed
to wear, and, therefore, would grow to an into wear, and, conerequently, most inconvenient
definite, and consent
lencith, if the shoe shouid chance to be retained length, if the shoe shouid chance to he retained
too long, and the excess in growth of horn not
removed. The sole and fome on the contrary
never cauce inconvenience, as their growth is
sary should be allowed as a protection. A sho six or twelve ounces heavier than is absolutely necessary to protect the wall from wear, causes
a great wasteage of muscular power of the limb a great wasteage of muscular power of the limb
and consequent fatigue. The mode of shoeing
for, when the old shoe is removed from the hoof, nothing more is required than to remove the ex-
cess in growth of the wall by cess in growth of the wall by means of the rasp,
applied to the lower margin or ground or sol edge-not the front of the wall. The amount to be removed will depend upon the growth. It at the toe or front portion that the excess is ordinary hoof, when placed on the ground, the angle should be about 50 or 52 degrees. The sole
or frog should not be touched, not even the loose or frog should not be touched, not even the loose complished by means of the rasp. Paring out and hacking at these parts with the drawingtive to the foot. In reducing the wall to a proper length, care
should be exercised in keeping both sides of the same height; as, if one is left higher than the imb, will foot, fetlock, and indeed thendicula This causes the horse to travel painfully, as it twists the joints, and in time leads to disease
Nearly always the inside of the foot is left higher than the outside, and this throws severe strain on the outside of the fetlock. Standing
in front of the horse when the foot. is in front of the horse when the foot is on the
ground, one can perceive at once whether this deviation is present. In a well-formed foot and leg, a plumb line should fall from the point of
the shoulder through the middle of the knee, shank, pastern, and front of the hoof
The wall having been reduced sufficiently, the
shoe should fit full all remp shoe should fit full all round the circumference, and project slightly beyond the heels. Heat not absolutely necessary in fitting it, or procurThe nails should take a short, thick hold of the wall, so that if possible the old nail-holes may be obliterated when the excess of horn is removed the nails should be driven home more firmly at the toe than the heels, particularly the inside y as possible, and with only down as smooth rasping. The front of the hoof or wall should rasp, but ought to pass in a straight line from the top, or coronet to the shoe. Rasping this pa:t of the hoof is most injurious, and should
not be tolerated on any consideration. It removes the dense tough fibres which are best adapted for holding the nails that retain the shoe, and exposes the soft, spongy horn beneath, this soon dries, cracks, and breaks, and does no
afford sufficient support to the nails. The evils of shoeing then, as generally practiced, are: 1, paring of the sole and frog; 2,
applying shoes too heavy and of a faulty shape ging too many or too large nails; 4 applying shoes too small, and removing the wall
of the hoofs to make the feet fit the shoes: 5 rasping the front of the hoofs.
Don't forget that the shoe should give the
foot a level and natural bearing on the ground. It is somewhat remarkable that the primitive
shoes and nails of early Britain are evidence the the farriers of those days had a better notion what was necessary than many of the more civilized workmen of modern times. The shoe is ery light, has usually two small relks, and
three nail-holes on each side, into. which are fitted six very large-headed nails; so that the horse has eight good projections on the surface of each shoe, which ensures an excellent foothold with the least possible weight, without disturling
the balance of the limb or position of the foot. the balance of the limb or position of the foo
London, Eng.

## LIVE STOCK

## Stockers and Feeders Scarce

Unless all indications fail stocker and feeder
cattle seemn destined to be scarcer this summer and fall than they have been for many years. Feeders experienced a good deal of difficulty last autumn in purchasing enougk cattle at a reason
ahle price to place in their stalls, but, judging from the few cattle in the country and the increased demand for stockers on the markets; they
are growing scarcer week after week. Of course, the are growing scarcer week after week. Of course, the
market will have its ups and downs, as some weeks larger numbers will be offered than on weeks harger numbers will be ofred wha buy
others, but if wistake not those who baty
their catte fairly early in the season will this their cattle fairly early in the season will this
year, as they did in 1913 , save money. The de-
mand for this clacs of cattle is almost insatiable, mand for this class of cattle is almost insatiable, and anything to which the name stocker or feeder
is attached sells for well up to the price paid for the finished article. There seems to be a good
future for the man who raises stocker and feeder
cattle to be finished on his own farm, but he cattle to be finished on his own farm, but he
shoull not allow a keen demand to lead him to
believe that a poor class of stock will pay He believe that a poor class of stock will pay. He
may be able to sell it, but the greatest profits may be able to sell it, bu
cone from the good stock.

The Cost Of a Yearling The question is, what does it cost to grow a
steer to one year of age ? This will be governed steer to one ciearstances, but principal arong
bheeveral circurne the condition or ultimate weight of the
thees is these is the condition or ultimate weight of the
steer. Henry, in his "Feeds and Feeding," re-
 and beef breidh, and bivithes the following table
Average wight at Average weight at end of year........ 648 pounds.
Average gain during the year........ 567 pounds. Average gain during the year........... 1.6 pounds. These, are quite satisfactory gains, and any feede: who attains, them as a general thing should be well pleased. $\begin{aligned} & \text { The same calves on an average } \\ & \text { consumed }\end{aligned} \mathbf{4 0 5}$ pounds of whole milk, 3,968 pounds of skim milk, 111 pounds of dried beet
puld, 1,033 pounds of grain, 1,057 pounds of pulp, 1,033 pounds of grain, $1,0.57$ pounds of
corn silage, 1,007 pounds of hay, 149 ounds of
rots and 148 pounds of hilage. Simply by calculating at market prices this amount of feeding stuffs is worth $\$ 30.00$, which signifies that each 100 pounds or tomary in experimentat work to allow the value
of the manue to offse the cost of labor, and do$\operatorname{ing}_{\text {rear. }}$ so
At twelve months of age 648 pounds would not be a satisfactory weight to many stockmen
when raised on the dam and given grain. Eivht or nine huntred pounds would be more gratifying, but even that weight does not bear with it pounds of gain than the lighter steer. In another experiment a number of calves. were fed skim-milk, some were fed whole milk, and an-
other bunch were reared on their dams. Those fod on skim-milk made an average daily gain of
1.5 pounds. The whole-milk calves gained 1.9 1.5 pounds. The whole-milk calves gained 1.9
pounds daily, while those reared on their dam
gained 18 pounds. This shows a decided advantage in favor of wholemilk calves and those running with their dam, but when we investigate different methods the tables are turned in favor of the skim-milk growing. Those fed skim-milk
made 100 pounds of grin at a cost of $\$ 2.26$, 100 made 100 pounds of gain at a cost pounds of gain in the whole-milk-fed calves cost $\$ 7.06$, while those running with their dam gained Another interesting point in connection with
the vearing of these calves was that after weanthe earing of these calves was that atter wean-
ing, less concentrates were required to produce ing, less concentrates were required to produce
100 pounds of gain with the skim-milk-fed calves than with those fed on whole-milk or running
with their dam. These figures go to show that the first few months of growth may not be so gratifying with the skim-milk as with the whole milk-fed calves, but when we estimate the actual
cost for 100 pounds gain or look forward to the concentrates and fodder that will be required to produce 100 pounds of gain, the pp,
largest from the cheaply-raised calves.

Fight Hog Cholera With Sanitation. Hog cholera exists in Canada in varying de-
greas of intensity, but tit is schiefly to be found in
districts that dunticate in thin
 cultural departments of the Union have expended
fortunes in search of a vaccine that will immunize the swine of that country against this terrible plague, but the majority of their reports
conclude by saving that there is yet a broad concluce suying that there is yet a ther have hopes or a discovery, that will at last be a pre-
ventive for this disease. ventive for this disease.
The Veterinary Inspector-General of Canada
has prohibited the use of cholera serum in this has prohibited the use of cholera serum in this
country, and rightly so, we believe, for many of the wisest and most experienced stockmen of the
United States still claim that the salvation of the swine industry in that country depends upon
sanitation and intellicent care It must not be forgot ten that although a hog is immunized by
vaccination
 the whole herd. If this treatment were practiced
in Canad. it of the disease germ that might ultimately cause
more wiste than dos the divease itself. The more waste than does the ditsease itsely
trouble est in the sime imarity of the symptoms
of chellera a nd the se of of many other diseases that of chollerast and those of many othor diseases that
swine ere heir to Indipestion, bronchitis, and many other common diseases are not easily dis-
tinguished from cholera by the ordinary raiser of swine, and only when the services of a veterin-
arian are obtained is the stock raiser sure that arian are obtained is the stock raiser sure that
his herd is not infested with this contagious At this stage of the disease in Canada what we requive is more vigilant inspection oy our
local inspectors, and a more thorough knowidge of the disease on their part. Int the grower weort
follow this up with some atent ion and repor
oll all suspicious diseases or death to the local in-
speetor and have them investigated, many sources of this disease will
he ene eliminated disease
have been reported that cases of this have existed outside the knowledpe of our veter-
inary departments, and that the dead swine have.
simply been thrown to one side where they could be wisited by rats, mice, birds and other carriers of the disease, which in turn transnit it to
heallthy herds in the same neighborhood, and then the disease is attributed to the introduction of
diseased swine many other causes that are known to experts to be the source of the disease. The disease is
serious, and with the absco serious, and with the absence of drugs for treat-
ment every precaution sbould be taken by stockmen to eliminate sources of infection, and to
have all diseases investigated by a local inspec-

## Constitution First

Few stock raisers appreciate the exact importance of constitution in their animals, and
what it means to them in the development their herd and the profits that accrue therefre Many are short-sighted enough to think that most economical gains will be made by maintaining the stock on a meagre ration, and feeding henvily when the time of finishing, comes. This
is one mistake that has led to a reduction is one mistake that has led to a reduct
profits sand deterioration of many herds.
There is nothing more important than consti-
tution in animals for all the purposes for which tution in animals for all the purposes for which
the herd is maintained.
The success of an anithe herd is maintained. The success of an ani-
malt as a good breeder depends largely upon its constitution, and most dairymen know, that the persistency, and abundance of a cow's flow of
milk depends largely upon her constitution milk depends largely upon her constitution. The not have that development of lungs, heart and other organs whose active operations maintain
and develon the body they will be poor doers in the end. The frist year of the animal's life is the
critical time in the formation of these organs
which which fo to make up the constitution of the ani-
mal. If they are maintained on meagre rations


Dewdrop
er calt
and dry foods they will not develop those organs
as will the animal that is fed on succulent food and liberal rations. The entire organs of the body will develop in harmony with the amoing
of food they consume. It is true with growing animals that where they are sent to the block at
an early age, those fed on rape, silage, an early age, those fed on tape, not dress out as heavy a percentage as will the dry-fed animals, but if they are maintained for a longer period of
time the subsequent gains will be made at a time the subsequent gains $\begin{aligned} & \text { much cheaper rate, and whether they be kept for }\end{aligned}$ breeding purposes or whether they be retained to finish at two years or two and one-half years of by developing the animals from the start with succulent fodders such as silage, rape, clover and roots. It was demonstrated years ago that
root-fed animals contained more blood and neces-root-fed animals contained more blood, that root-fed sarily more
steers had heavier vital organs, and that fat was
and always less for the root-fed animals. Water is
the cheapest article of feeding stuffs now on the the cheapest article of feedmg sturfs now vor the market, and if we can develop rols it be wisdom on
animals on such nutrients, it will be win our part to do so. The good line of cattle
reared and maintained in Great Britain subreared and
stantiates this doctrine. We go there year after year to get that he strong in been reared on an abundance of roots and succulent foods. It
is during the early period of the animal's life
the is during the early period of the animand that
that the organs of the body are molded, and is when the ferder to get the most gratifying it
properly in order skim milk, separated from their
where they will not be disturbed.

The critical time in the life of the pig occurs when he is separated from his dam and placed upon rations fed from a trough. The weaning petite petite, convuisive fits or some other trouble of these due to over improper leeding. Any may place the pigs in the unthrifty class of bad doers so common amongst inexperienced, and even with some experienced pig feeders. Nearly all the troubles start from indigestion. Ver often the pigs are weaned too early in their lives, and are not sufficiently accustomied to eat ing solid and sloppy food from the troughe. These young pigs have subsisted until the time their milk alone a food which is nature's most easily digestible and nutritious offering for the young is not roglly hedvishle to be stated that they are from six to eight weeks of age and sufflciently well started in life that they may the
better stand a little, of the which must seem to hem, rough usage, consequent upon depriving them of their natural food supply. When the pigs are allowed to reach six or eight weeks of age they very often have learned to eat a good
deal from the trough with their dam. It is setter, where at all practicable, to have a trough cess, and in which may be fed a little shorts and

It is well to get the pigs eating fairly well before the sow is removed to other quarters. If a ittle trouble is taken the
taught to eat first with a may be
little sweet milk, and afterwards with sweet

 pigs a $s m$ all
amount of water, some say as much wheuld be added, or some sweet skim milk mqght be added to the whole shorts stirred in to the pigs have commenced feeding from the trough, is one
of the best feeds to be given
It is not generally advisable ${ }^{\text {t }}$ oung pigs on kitchen slops and all right after the
igs are a littie older and have beall kinds of ol
oed At this season of the year, clover are so abun-
paddock is a good place f they are large enough not to pive as soon as deal of clover and grass, ing their digestive systems in condition. As a grain feed we believe that finely-ground
oats for the young pi make about young pigs along with some shorts make about the best ration, Barley alone, is
too heating and is not so easily digested as the oats, but the latter must be finely ground. A large percentage of hulls make them unpalatable and more difficult to properly digest. It is genshorts, gradualiy put in a few oats where plenty of grain is grown on the farm, and it is "not as the pigs grow substitute outside millfeed, and oats some barley, peas, wheat or buckwheat, in fact the heavier grains after the pigs have able in order to them ageted preferearly an age as possible. however, put a small proportion of oats in the ration even up until the time the hogs are finished, believing
that these help the pigs to digest the heavier grains, and there is not 80 much danger of
crippling them. This is one featưre which mon crippling them. This is one featúre which mus
be carefully watched with the young pigs. be carefully watched with the young pigs.
not feed the heavy grains to excess until the pigs are old enough to stand it, and give them all the exercise possible in an open yard while they
are growing. The start which the litter gets are growing. Thew weeks immediately following separation from the sow means a gre

## THE FARM.

## Farm Engineering.

UTILIZING SMALL STREAMS FOR POWER. The idea of water power is generally as sociated with a mental picture of an expensive installation which is beyond the purse of most farmers, yet it is no exaggeration to say that on many farma small streams could be harnessed to do the work required of an engine, and with very little expense. The size of stream and amount of fall is of first interest, of course, in order that calculations may be made of the possible amount of power which could be generated. To understand how these calculations are made, we must first find out just what is mean y "horsepower.
That is time hat wo fite or dorg mall engine or water wheel could do the amount of work done by a large engine, but it would consume more time. . Work is used here in its mechanical sense. Work is the product of force and distance. That means that a force of 12 pounds exerted through a distance of 6 feet does $2 \times 6-72$ foot-pounds of work. This would be the work done by a weight of 12 pounds falling o the ground from a height of 6 feet. The unit of work used is the foot-pound, the amount of work done by a weight of one pound falling through a distance of one foo
The unit of power could readily be taken as one foot-pound of work done in one minute, but a great many years ago the unit of power was taken as 33,000 foot-pounds of work per minute, nd es the result of a great many tests, it was believed that this represented the power of the average horse. To-day it is generally recognized that the average draft horse cannot do more
than about 25,000 foot-pounds of work per minute for any continued length of time. Th name of "horsepower" still clings,
To find the maximum possible power which ean be obtained from a falling body of water
then, it is only necessary to det then, it is only necessary to determine th weight of water which falls in one minute, and
the distance that this water falls.
The latter distance may be easily measured, as a rule. I the weight is to be determined, we must determine first the amount of water falling in one
minute. This is comparatively easily found it minute. This is comparatively easily found it
the body of water inspected is a small stream In that case, the average deptbt in feet ins multi-
lied by the width in feet, and the resulting pro plied by the width in foet, and the resulting pro duct is multiplied by the velocity of the strean
reckoned in feet per minute. This may be rough reckoned in feet per minute. This may be rough
ly determined by noting the distance moved through by a light chip thrown on the surface of
the water at the place where the depth and the water at the place where the depth and
width measurements were made. The product of the three measurements pointed out above give the cubic feet of water which flows by that particular spot in one minute, and, of course, the
same amount of water must flow past every same amount of water must flow past ever
othe: spot in the stream in a minute, so we cal that number the stream flow. Now, a cubic foo of water weighs approximately $62 \frac{1}{2}$ pounds so
multiply the stream flow in cubic feet by th. weight of a cubic foot, and the result will be the weight of water falling in one minute. Multiply this result by the distance fallen through, kud we have the foot-pounds of work done in ule
minute. This divided by 33,000 will give the horsepower which is available at the stream Right here it should be observed that this maximum horsepower cannot be recelved from the $50 \%$ to $85 \%$, as will be pointed out later The term "miner's inch," which is sometimes mot with in catalogues of water power appar atus,
in its meaning, the exact amount meant depent ing upon the particular locality where the term is used. An average. value for the miner's inch
is $1 \frac{1}{2}$ cubic feet of water per minute. The is $1 \frac{1}{2}$ cubic feet of water per minute. The num
ber of miner's inches, then, in the above stra could be obtained by dividing the stream flow by If the water to be utilized is from a small
walerfill, the casiest wat to tueasire the amount wateriall, the easiest way to measure the amount
of water fiowing is to make the allove cole lations in the stream ankere the wateriall. It pen wooden chamnol of known be cruck through a rown lenusth The widn
leet which must fall per minute
horsepower under the various heads

$$
\begin{gathered}
\text { TABLE. } \\
\text { Head in feet. }
\end{gathered}
$$

$5 \quad 10 \quad 30$
105.6 211.2 $116.8422 .4528 .0 \quad 633.6739$ 2 844.8 (Next week.-The kinds of water wheels and the proper cho
Nova Scotia. $\qquad$

## A Sweet Clover Mixture.

Editor "The Farmer's Advocate
Regarding the use of sweet clover on the farm, I will give our brief experiencle for the benthis nowr readers, who are thinking of trying this new, yet old legume. We have two plots, of of acres each, of rather light, sandy soil lying nearly a mile from the barn, and hence, would be a good place to try' this clover, we purchased in the spring of 1913, fifty pounds of the white variety (Melilotus alba.) The land was plowed in May, working as for corn, at intervals until June 15th, when, we sowed one
plot, using twenty-five pounds of seed. Also ten plot, using twenty-five pounds of seed. Also ten
pounds of hairy Vetch were sown on a one-halfacre plot with the clover. One strokle of the harrow and the roller, followed the seeding.
Plot No. 2 was harrowed once a week until
July 15th, and sown with 25 pounds of seed mixed with and sown with 25 pounds of seed ixed with 10 pounds of Alfalfa
crop of hay averaging thirty inches in cut a Some was cured in cock and some in a side-delivery'-rake swath. It cured just the same as ommon red, and mone easily than Alfalfa, no eaves falling


I have taken some time, and think it one of the best farm papers obtainable. No farmer should be without Rainy: River 'Valley, I decided, if you would allow me a little space in your valuable journal, to make a few remarks abou' it; which may be of interest to your Eastern readers. I was greatly surprised whiple visiting in old Ontario to find that the people there thought Rainy River Valley
was a perfect wilderness just on the outskirts of civilization. When I came here 'twenty-seven' years ago it was indeed a wilderness, there being only eighty miles. Our only way' of getting in provisions was by boat from Kenora (then Rat Portage). We always had to lay in a supply in the what joy we always greeted the first. boat of the season. But those days are gone, and almost forgotten. Now we have the main line of the has greatly aided in opening up the istrict "hich a new country we have good roads. Last year the Government started work on a trunk year, from one end of the Valley to the other, which roads in Ontario. We have without best country most fertile land in Canada-nowhere doubt the excelled. It takes some work to clear it and make it ready for cultivation, but the pioncer is by no means unprofitable in too, the clearing is of dollars are realized every winter as thousands ties, wood, poles, etc. People are coming here from the West at the present time, having been weeds, cyclones etc., and find here just the as of land every farmer wants, land that will sort every kind of farm crop and give abundant returns. Timothy and clover are 'very extensively grown here and al ways give g ood re-
turns, and the ripe clover contains a great deal of seed Alfalfa also does ex
ceedingly well. field $\mathrm{gra}^{2} \mathrm{ins}$ yield well here and as for garden stuffis potatoes, we ways sure
bumper crop. of a
On man here dug three bushels of Delawar potatoes offless than an acre of land
last fail. No small ones either, all sal able potatoes. By the way, we are progressive farmers bere, we have
organized what we organized what we
call. 'The Rainy River Potato Grow
ers' Co-operative ers' $^{\prime}$ Co-operative As
sociation' sociation" ${ }^{\text {ie but do }}$ do
not confine ourselves to potatoes alone,
but handle all kinds of farm produce,
in thee good loads were put on top of our hay Almost too much of a good thing. We of it accustomed to the fragrance and were often comp limented on our sweet-smelling hay. We had to eat it. It seems nev found anything refuse to horses improved while eating it The Vetche grew right along with the clover and made an especially nice quality of feed.
Plot No. Was sown July 15th, and just be about 30 inches high and very thick sight, being could hardly be distinguished from the sweet alf was left on the ground and will not materially disappeared during the winter. This spring hooth plots made a very early start, showing no winter vics; although much of the red clover in this
vinity was killed. On May 9th, 1914, it wa from 12 to 14 inches high, both Vetch and Alfalfa
keeping pace with it. From appearances it would be grand pasture and no doubt stock would thrive on it, if confined
to that feed. It seems to me the addition
tuan , consumers. The association has managers' offices at Emo and La Vallee, and handled almost organized a year ago, have already arm produce. We handle only one kind worth oes for seed, namely Delaware, and find it a sure of them being all ing up a carload, we are This is the country one variety.
can get a free country for the poor man, for he year around. This is the place for the man with well on his investment as as is sure to make land here is steadily increasing in value, as markets, though as 'yet, principally lucal are good, and the farmer is always sure of selling almost anywhere at as high prices as are obtained "A RAINY RIVER FARMEP"
The May Beetle Swarms.
are evidently in for another destructive invasion ago. Already (Mike that of a couple of years head in the evening 20th) they are buzzing overthe garden regularly under cultivation, they were found working about the roots of them were and other bushes in the fruit plantation. Any
practicable suggestion through practicable suggestion through "The Farmer's
Arvocate" from the insect-pest expert will be ap-
preciated by farmers
$y$

MAY 28, 1914
THE FARMER'S ADVOCATE.

Food and Pearl
Editor "The Farmer's Advocate": ing letter, printed on page 954, on the oyster
and oyster farming.
He mentions that in addition to the twenty-seven thousand barrels take rrom
$\$ 370,000$ worth from other countries. If what
the dietitians tell us is true, we did no the dietitians tell us is true, we did not get
much food value for our money. In a list of $t$ menty kinds of food, tabled in a standard text on physiology, oysters at 35 cents a quart is
the most expensive. At that price a dollar for oysters buys only one twenty-eighth of the food valued, and about one-third as much as in egrg
pound
on at 25 cents a dozen. Raw oysters are, it is
true, easily digestible, but the possibility that true, easily digestible, but the possibility that
they may have grown in waters exposed to drift of sewage and consequently may carry typhoid or other disease germs, moderates the satisfaction
other with thich they are eaten. In this respect, how-
ever, Canadian oysters are likely to be devoid of offenc
In the letter referred to the origin of the
pearl is attributed to the irritation of a grain of sand. Modern science seems to reject that theory. Jeffreys and other biologists hold that
perfect ovster pearls are developed around a parasite, most probably the larva of a fluke worm, which invades the mantle of the oyster. If the only cause were the intrusion of grains of
sand, it would be difficult to account for the prasand, it wounce of peyster pearls in certain waters pre their rarity in other localities where the waters are more frequently turbid.
It is interesting to note that notwithstanding the many years, centuries one might say, that yation, it is only within a year or two that its interesting larval history has been completely worked out. The honor of doing so belongs to Canadian biologist-Dr. Joseph Stafiford. He
has shown that the sense, and locomotory organs of the fully-developen, free-swimming larva are decidedily more highly organized than those or
the adult animal, also that the free-swimming period covers nearly a month instead of a. week,
as formerly supposed-an important fact to those who are attempting artificial fertilization of oyster eggs.

## Cut Clover Early.

A point which growers of clover seed cannot
aflord to overlook was recently brought out by by
C. S. Wheeler, of the College of Agricglture, Ohio C. S. Wheeler, of the College of Agriculture, Ohio
State University. It is quite a common occurState University. It is quite a common occur-
rence on the farms of Canada that clover growrence on the farms of Canada that clover grow-
ing for seed has proved unproftable, while it is
equally demonstrated that other growers successfully produce paying crops. The prevalence or
 cause of good or poor crops, as the case may be,
but according to this authoity, and we are inclined to agree with him, a great deal more dam-
age is done by the clover midge than by the age is done by the clover midge than by the
absence of bumble beest The maggots of this
and midge are foumd in the clover blossom where
they destroy the ovary in each small floret be they destroy the ovary in each small Horet
fore it can be fertilized and develop seed. generations of these maggots appewo blossoming
at the regular time of the two periods of the clover. Keeping this in mind, and also remembering that it is impossible to get rid
of the, midge because the adult, which is a fy, comes on the place from neighboring farms, in clover sed growing the first crop be removed
early in the season, in order that the second early in the season, in order that the second
crop be in blossom before the second generation Only two alternatives are open in any district one is to have the second crop in blossom earlie than it ordinarily would be, and the other is to
have it late. The danger of frost in this country precludee the later blossom to a great ex-
tent, so that the only safe means is to get the first crop of clover out of the way very early in the season to aliow the second crop to grow up and
blossom at a time when there is little danger of midge working havoc. To make the best use of
the first crop and get it out of the way early the first crop and get it, out of the way early
many good growers pasture until early June or many good growers pasture until early June or
cut as hay very early in the season. When it is cut as hay very early in the seas the mover over
pastured it is advisable or run the
the crop at the time the stock are taken off. There will be some toss in hay crop, but it will
generally be more than made up in the increased generally be
vield of seed.

Alfalfa Clogs Tile.

penetratio the joints of the tile and rorm a ball-like mass on the side of the tile obstructing
them by holding silt which is heing washed down by the water. He claims to have taken up many

## How Peanuts are Grown

The large illustration on this page depicts the manner in which peanuts are cured in the stack. If the weather is dry and windy, the curing proToo rapid curing about turee or four weeks. shrivel and discolor the pods. Picking is usually deferred until late, and special care is taken to protect the pods in stacking as the common crow
will destroy many if theyl are not protected. Field mice and rats also must be figured with.
Stacks should not be opened nor the vines hancks should not be opened nor the vines The peanut belongs to the same group of plants as do beans and peas, sut as most or our the surface of the soil. The flowers of the peanut plant are small and yellow and born in the little pocket Where the leaves ane attached to the
stems. Immediately after pollination has taken stems. Immediately arter polimation has taken place the visible portion of the flower fades and
falls. The short, thick stem supporting its elongated and sharp-pointed ovary is thrust down-
ward into the soil where the pod develops. ward into the soil where the pod develops. In
the ovary fails to reach and penetrate the soil no pod forms.
Peanuts do best on a sandy loam soil, prefer hoy light in clator. Theyy will, but the latter must be well drained.. The value of the crop in the United States is said to run from
$\$ 12,000,000$ to $\$ 15,000,000$ annually the chiel areas being in Virginia, Tennessee, the Carolinas, areas being in Varginia, Tunnessee, the Carreading
and Georgia. The industry is now spreading across the entire Southern States.
The crop demands a long season free from
frost with comparatively 1 little
rain-fall, abundant sunshine and very high temperature. Yields up to 50 and 60 bushels por aire are orten
recorded, but many run down to 30 and 40 bushels. The seed is planted with a machine and with a large podded variety it 18 ustuully shelled. Planting is done from the midale of June to the earlier, generally about the end of May. Rows eare generally put in about 36 inches apart and
are plants from 9 to 16 inches apart in the rows. Cultivation at frequent intervals is given until
the peanuts begin to form pods, atter which they the peanuts begin to form pods, atter which they
are not given further disturbance. The old idea are not given further the peanut should be covere is erroneous, although growers frequently allow a good deal of the soil to be thrown over the with a potato digger and with this machine are able to get out about twelve acres a day'. After the vines are loosened from the soil they are allowed to lie' spread upon the ground or in smally ounches for three or four hours and then are shown in our illustration. This is to prevent discoloration of the pods and loss of weight and besides a better quality of peanut hay is made from the vines when they are stach the peanuts are pulled. The stakes arfour inches in diameter and seven feet in length and sharpened at both ends. These are set in the ground to a depth of twelve
to fourteen inches. Storing in barns is seldom
resorted to until after the peanuts have cured in the stacks from four to six weeks. ation where peanut cleaning factories are in operpolished ready for the market. are cienened and refuse ane removed by means of fans and ventilators. Peanut hay is said to be about equal to clover hay in value for stock feeding. An acro
of first-class peanuts when the yileld is calculatod at about a ton of vines worth $\$ 8$ to $\$ 10$ and, 60
bushels of peanuts worth $\$ 40$ to $\$ 60$ gives the grower an income of anywhere from $\$ 48$ to $\$ 70$ while the cost of growing is estimatede at from
$\$ 12$ to $\$ 25$ including of course, seed and fertil$\$ 12$ to $\$ 25$ including, of course, seed and fertil-
izers. The crop is growing in importance in the izers. The crop
Southern States.

## Soil Fertility Depends on Live Stock

 and Green Manuring.For the farmer who does not keep itve stock green manuring is almost absolutely necessary. but as pointed out in a bulletin repanily hasued by the Missouri State Board of Agnculture judgment must be used. Green manure adas humus the soil and adas it very quaky and unpes the soil is very than and b Wora, accoraing returs binelin, 1 l is doublil in as large money returns are obtained by plouging down greon rops that fout three puartars of the fertility melve of the of the green crop is left in the soit whem pastured
and the feed is obtained in addition which with red clover may reach as high as $\$ 83$ per acre.
Of course, where a catch crop is grown for green Of course, where a catch crop is grown for groen
manuring the land 'is that much ahead.
Rye manuring the land is that much ahead. Ryo tember serves the three-sold purpose. It conserves plart food seet free in the fall which might
otherwise be lost; and it give some fall and spring pasturing and prevents washhng thin the goli.
A very heavy growth turned under as groen manire just before planting may not have a chanco to decay, especially if the weather is dry. This results in a mat of veggetable matter between the ploughed, ground and the harder subsoll. Thit nethod soil is used up the crop begins to suffer. On such land as this it is always advisable to roll with a heavy roller.
ne of the most important points brought out In the bulletin is the value of live stock as a produced on the farm and sold in the raw state plant food is lost. The feoding of bumper crops on the land is what builds up soil fertility
Many farmers pin their faith to legumes to keop Many farmers pin thenr fith to
the soil in good condition and these orops including the clovers, alfailfa, peas, beans, eto work wonders in this respect, but it must be remembered that the legumes are heavy feeder on potasstum in particular. Silling this so that
food from the farm finally brings trouble so tha it is necessary even,' where legumes are grown that these be fed to the stock and the greater
portion of the plant food ruturned to portion of the plant food returned to the soil phorous and potassium available resulting in phorger crops, but the soil may be actually pooner
larger in total plant food. There is a difference between a fertile soil and a procucive soil. The former has a sumicient ' 'amount of plant rood preagen,
while the latter is one that has a sufficient amm-


Harvesting Peanuts in Virginia
ount of plant food present in such a condition Farmers should grow more clover 'and should market it as the finished product-beef, pork, martot it or milk products.
Feeding of the crops on the soil is not all, proper care must be taken of the manure. Where crops are harvested by the live stock the labor
problem is solved as well as the problem of problem is solved as well as the problem of way as far as the soil is concerned of returning
the fertility to it than by allowing the cattle to the fertility to it than by allowing the cattle to
feed off the crops, but climatic conditions in this ced of the crops, but climatic conditions in this housed for a considerable portion of the year. This necessitates some care with the manure that it be returned to the land without considerable
loss through drainage and bad handling. Where poss through drainage and bad handling. Where every' day, but this again is not practicable under all conditions and the next best thing is to keep it in a covered shed wher
solidly to prevent heating.
At the Ohio Station some barnyard manure was taken that had been exposed to the weather during the winter and some fresh manure from
the stall. These two lots of manure were spread on clover sod, at the rate of eight tons per acre. The sod was turned under in 'preparation for
corn; wheat followed the corn in the rotation and clover followed the wheat. This rotation was repeated twice. At the end of ten years it was Pound that the stall manure had given a net
increase of $\$ 23.70$ per acre for the three years of increase of $\$ 23.70$ per acre 'for the three y'ars of
one rotation as compared to $\$ 17.22$ per acre for the yard manure. If stall manure, acc ar ling to the bulletin, is almost one-half 'better than yard manure surely we cannot afford to pile the man-
ure outside the barn letting the nitrogen get away into the air and allowing the phosphorous
and potassium to leach away ' into the soil. Unless manure heats its nitrogen is not going to escape to the air and neither the phosphorous no
potassium is going to become soluble in water and leach away. These plant foods remain in the plant tissues until certain forms of bacteria work upon them and change them to new forms The prevention of heating is the main thing in
the caring for the manure, Wisco
According to the wisconsin Station, a ton of approximately five pounds of phosphoric acid, ten pounds of nitrogen 'and ten pounds of potash At these prices they value a wagon load at from
$\$ 2$ to $\$ 3$. Farmers cannot afford to do without $\$ 2$ to $\$ 3$. Farmers cannot afford to do without enrich their soil, neither can they afford to neglect the careful handling of the product when
they' get it. It is also estimated by the Wisconthey' get it. It is also estimated by the Wiscon-
sin Station that the value of manure per thousand pounds live weight for the different classes of animals for one year is as follows: Sheep $\$ 26.09$; Calves $\$ 24.45$; Pigs $\$ 37.96$; Cows ure with the exception of that from swine is greater than the value of solid manure. From figures given it is shown that the yield of crops is being maintained far better in the live-stock
breeding States than in those States where breeding States than in those States where
corn and other crops are grown year after year and sold off the farm. Truly live stock is the prime consideration in the maintenance of soil
fertility.

## General Principles of Rotation

culture. S. A. Bedford, Deputy Minister of Agriprinciples of crop rotation

1. Include at least one leguminous crop in the rotation to gather nitrogen from the air. in the rotation that the land may be cleaned of weeds.
2. Rotate shallow-rooting crops with deep-
noting ones, so as to enlarge the feeding ground of the plants
3. When possible to do so avoid rotating
small cereals with other small cereals, especially void repeating the wher crop 1 5. If live stock is kept plan the rotation so forage each year.
4. As soon as conditions irrmit keep more or
less stock on the farm, in no other way can the less stock on the farm, in no other way can the
fertility of the land be kept up. bedding so free of weeds that the mamure can the 8. Arrange: the rotation so that most of the


## THE DAIRY.

## What is Skim Milk Worth?

The value placed upon skim-milk for feeding purposes has gradually rison from almost nothing until it has attained the alarming figure of $\$ 1.50$ or more per hundredweight. A writer in a recent number of 'Hoard's Dairyman estimates skim-milk as worth $\$ 1.64$ for every one-hundred pounds. These calculations are based upon the ment seems weak and that is that the fat of the whole milk, fed in conjunction with the skimmilk, is charged up separately and the remainder of the whole milk, is charged up as skim-milk This allows nothing for the stimulating and tonic effect of the whole milk and attributes all the gains outside of the value of butter-fat to the skim-milk. The calves were fed eight pounds of whole milk daily for a time; with this they got skim-milk and when large enough they were of or the calculations were made when the calva were about thirty days old and resulted in valuation of $\$ 1.64$ per hundred for the skim-mille valuation of $\$ 1.64$ per hundred for the skim-milhe
fed. This is the particular age at which the calves would! show the great test gains from the skim-milk consumed and this experience does not
stand stand 'as conclusive proof that skim milk is
worth $\$ 1.64$ per hundred under all circumstances. The analysis of skim-milk compared with oats, a well-known food, will show well its percentage of food constituents.

Skim-milk
Oats ....
$\begin{array}{ccc}\text { Protein } & \text { Carbohydrates } & \text { Fat } \\ 2.9 & 5.3 & 0.3\end{array}$

| 2.9 | 5.3 |
| :--- | ---: |
| 8.8 | 49.2 |

$\begin{array}{ll}5.3 & 0.3 \\ 49.2 & 4.3\end{array}$


Holehouse Marksman This table demonstrates the comparative amounts hundred pounds of oats at 40 c per bushel would ealize about $\$ 1.20$ while skim-milk, which con-
ains a little more than one-quarter as protein, only about one-ninth as much carbohydrates, and one $\$ 1.04$ teenth as much fats has circumstances must have wonderful tor thes stimulative effect upon the young calf's system. The facts regarding skim-milk may be gleaned from the following information, which has been
gained from thorough experimentation. When fed skim-milk for a period of twenty to thirty days 7.9 pounds are sufficient to produce one pound of gain, but when fed for a period of eighty to
ninety days, 20.1 pounds of skim-milk are required for one pound of gain. This explains in part the wonderful gains made in this correspends largely upon the amount of grain which accompanies it in the ration. For pigs of aver pounds are crlual in value to one pound of corn, com, harley or other carbohydrate-rich feeds. Another table compiled at the Wisconsin Sta1.on well demonstrates the proper proportions in

When feeding with each Milk required to save pound of meal From 1 to 3 pounds skim-milk ..... 327 pounds
From 3 to 5 pounds skim-milk.... .446 pounds From 5 to 7 pounds skim-milk $\cdots . . .474$ pounds From 7 to 9 pounds skim-milk ....., 552 pounds of skim-milk should be fed with each one hundred pounds of corn meal for if sot so given much of given any stated value for it depends largely given any stated value for it depends largely animal and the composition and quality' of the lood fed along, with it. There might be cases such as the one referred to where skim-milk can
be figured to have a value exceeding $\$ 1.00$ per hundredweight, but the 'experimenter should take into consideration the value and tonic effect of foods fed in conjunction with it and when making an estimate, credit all the foods with 'their true
value. Experience proves that as the quantity of skim-milk increases and the grain decreases, the value of the milk will lessen. Its worth is governed by the amount of grain that accom-

## Cheese Chat No. 3.

## Editor "The Farmer's Advocate

"I wish we had some good cheese, I'm cheese hungry. The foregoing is an expression th especially in districts where there are no cheese factories, and sometimes in cheese districts, where the farmer's wife reports that she has frequentl sent in word ' with the milk-hauler to get he
some cheese, but he returns without any some cheese, but he returns without any. His excuse is; "There ain't no cheese cut, and the
chesemaker says he won't cut a cheese for just cheesemaker

There is no rea on why eve ery
farmer who keeps farmer who keeps
cows should
$n \cap$ nt cows shouid oown
m a ke his one and have it
cheese, and her on hand all the
time. The only the. th ing ne only
to buy would bary to buy would b rennet, and a hoop
in which to press
the cheese. All the the cheese. All the
other things needed can be found on
every dairy farm. Some one says,
"Wh a t about the time ?" ""Don't i
take a lot of time to make chese? We would surily that a a little suggest
in liquid in liquid or powder
form be purchased Yorm be purchased
from the cheese
maker maker or dealer.
A pint of rennet
costing abut 25
cents will be all that any cirdinary farmer would need
for the season. Or
if if a veal calf is
k ill 11 ed on th killed on th
farm, or a young call of any kind, remove the stomach, turn inside out, wash, insert a shingle to keep it in shape,
and hang in a dry place, after sprinkling on salt. and hang in a dry place, after sprinkling on salt.
When rennet'is needed, cut off two or three stquare When rennet'is needed, cut off two or three isquare pint of brine, for two or three days. Strain this liquid through a cloth or strainer and the eeded rennet will be ready for use.
Have some tinsmith make a loop about 8 or out of heavy tin, with bands around top, bottom and centre. This hoop should be open at top and bottom. It ought not to cost over 75 cents to one dollar. Some rainy day, the man about
the farm, handy with a jack-knife and saw, can make a wooden follower to fit inside the hoop for pressing the curd into shape. With this material on hand, if the women will keep home 100 to
450 pounds milk (10 to 15 all 50 pounds milk ( 10 to 15 gallons) where it goes to the cheese factory, or if separating, one-hal to make cheese. Select a rainy day, when the men can be pressed into service if needed. Place the milk in a clean boiler and set on tho fire of the stove, warming to $84^{\circ}$ to $86^{\circ}$. After reach-
ing ' the desired temperature, having stirred it gently all the time during heating with a dipper or large spoon, remove from the fire to the back
of the stove. If a little geod-flavored buttermilk
or sour skim-mile me on hand, half-a-cupful may
be added to the milk before or after heating Next, dilute about six teaspoonfuls of commercia rennet in a cupful of cold water and stir through
the milk with spoon or dipper. (If rennet is the milk with speon or dipper. (heme-made, the cheesemaker would have to experi ment until he or she got the right quantity t curdle the milk firm, and ready for cutting in
about twenty minutes.) Stir for five or six minutes, then allow the milk to sit quietly on
the stove for about 20 minutes, or until whe the sted over the thermometer or finger, it break clean, when it may be cut into pieces with a long
knife, where a curd knife or breaker is no knife, where a
available. After cutting as evenly as possibl into pieces one-half to three-quarters of an inch cube size, move the boiler forward to the fire and stir gently until the curd and whey reach
$92^{\circ}$ to $94^{\circ} \mathrm{F}$., when the boiler should again be set on the back of the stove, and the mass set on the back of the stove, and an the mas
stirred every few minutes for an hour or two until the curd feels firm to the touch, when the whey or liquid pact should be removed, or the spread on a slanting table or a three-cornered spread orker for drainage. When the surplus moisture is expelled, add about two to thre ances of salt, individual taste, and mix this thoroughly through the curd by' stirring. Fn ten or fifteen minutes, the curd will be ready to fill into th
hoop. a clean table or bench, spread a piece of
On a
clean cotton about one foot square. On this set the hoop, then fill in the curd, pressing it in
firmly with the hands. When all the curd is in, spread another foot-square piece of clean cotto over the top of the curd and hoop, and put on
the wooden follower, which should have a block the wooden follower, which should inches high in the centre to take the pressure from the lever When the curd is pressed down in the hoop, al-
thouigh a separate block could be set on the follower, after it gets below the top of the hoop.
Put the lever in place next, which may be a piece of scantling, or a fence rail about eight feet
long, with one end under something solid, and long, with one end under something solid, and
about one foot away from the end, have the away from'the cheese hoop place a weight of 20 to away from the cheese hoop place a weigh ore does
25 pounds-an old pail filled with stones
very well for a weight. Move the weight nearer very well for a weight. Move the weight nearer
the end of the lever from time to time, until full pressure is applied. A pail or dish, should
be set under the cheese to catch the pressings and prevent a muss on the floor.
At the end of an hour remove the cheese from the hoop and bandage by sewing a cotton cloth around the cheese, or this may be doun 24 hours. Make the cheese as square on the ends as possible and turn so as to have it even at the top, put
back in the hoop, and apply full pressure for a. day or two, when it should be taken from the week old dip in, or brush on, a thin coating of paraffine wax to prevent drying and mould. This
wax should be applied hot. If wax is not availwax should be applied hot.
able use butter, or clean lard
able use butter, or clean lard.
Turn the cheese end for end every few day's,
and in about a and in thout a month the cheese will be ready
to eat. When cutting, take a thin slice from the whole of one end, then cut in slices what is piece each time to prevent drying.
piece each time to prevent drying.
One cheese like this a month would keep an
ordinary ordinary family supplied throughout the year.
There is nothing nicer, or more convenient than a cheese lunch. Try it during the coming
summer.
O. A. C.
H. H. DEAN.

## HORTICULTURE.



A Good Future in Strawberries. on our markets in Southern-grown strawberrie the appetite for the Canadian spring only whets fl in appearance and luscious as they Beautinoy leave the Canadian demand unsatisfied and Canuck revel to any', extent in this, the daintiliest of the berry kind. So great has been the demand and so limited the supply during the last two or three icle of food on most tables when in scason, has become a luxury. The restricted acres of plantahelds has done away with the old meadows where mulching berry thrives and the absence of proper have been responsible for a curtailment spring the production. Contemporary with this condi tion the canning and jam factories have required consumed the the to make up a product that is the camp or ocean voyage thus extonding both the field and period of consumption. All these conditions warrant more plantations on a com-
mercial scale and increased attention to the gar mercial scale and increased attention to the gar-
den patch. It is not wise to rush into any special crop that is being grown extensively in the neighborhood or for which the market is limited and may be overthrown by excessive pro-
duction, but where the demand does exist and factories will where the demand does "exist and and intelligence required in berry culture guarantee it as safe and sure.
Strawberries may be set in early spring, in
une or in the autumn. June usually presents June or in the autumn. June usually presents
difficulties in the absence of sufficient rain-fall o necessary for the starting plant. Plantings
during the current season would probably 'meet with most favorable conditions if set during the curst jtwo weeks in August. At that time the and if theey can be transferred provide the plants the old patch to the new without the deteriorating influence of drying out a great impetus will be given to the new beds. This season of setting also allows of tion of weeds. However the early spring is the recognized season of setting and should be anticipated by previous preparation. 'The autumn planting has only been discussed for those who might desire to set during the current season,
and it is not always a mistake but the chief danger lies in the destruction of many of the young plants during the winter
The preparation of the soil requires little explanation as all crops thrive in proportion to
the amount of attention paid to the seed-bed. Like most other crops, berries do well pn a clover sod, well worked down in the fall and again in the spring. Under intensive culture methods it the plants a crop during the same season and when this lis well manured and fertilized there need be little The character of soil however is a matter right The character of soil however is a matter to be
considered. A light, sandy soil will give a goodquality berry but it is liable to dry out when moisture is the first necessity and thus destroy the chances for a crop. A limestone soil contain ng humus and loam is not a bad soil at all
the berries are' well colored, have good quality and ship satisfactorily, but they will not attain to the size of the berry grown on friable, sandy loam, retentive of moisture. This latter require ment as well as fertility will' be enhanced by a
liberal application of barnyard manure; ; peen thirty to fourty tons per acre will mot be excessive. Coming to the actual planting the individual must do some thinking. If the plantation is to be an adjunct of the home garden the check sys-
tem has some things to commend it. When planted in hills, thirty inches apart each way
the weeds are more easily controlled and the surface mulch preserved, but on a commercial scale the matted row system is followed almost
entirely'. Here, the rows are four feet apart, with plants from eighteen inches to two feet apart in the row. When set 18 inches apart in per acre. A method of setting which requires a little more time, but in the end is profitable, is to discard the trowel or dipple for making holes and make a shallow trench with a plow. Then
taking the small plant in the right hand, rotate it with the thumb of the left hand held up close to the bottom of the crown. While the rootlets rotary motion place it in the trench and cover with soil to a level with the crowns, no more spade or dipple method is the bunching of the roots in one spot and the resulting struggle to
secure a foot-hold. This more arduous way al-
at once, and guarantees a more speedy growth. Following the planting, cultivation must be thorough, or the crop will be jeopardized at a the
beginning. In succ a necessary evil. True it is that weeds will be
introduced introduced, but from the appearance of berry
fields this spring, mulching, despite its untoward fields this spring, mulching, despite its untoward
effect, is necessary. One field under observation proves that bean straw has the happy quality of being fairly free from weed seeds and at the same time capable of protecting the plants.
Wheat straw is probably next in order outside of rushes and swamp grasses.
It has long been a question whether or not it is advisable to take two crops of berries from
the same patch. The second crop has the same patch. The second crop has always
been a minor one in spite of the cultivetion sulb sequent to the bearing season. Now two systems are in vogue whereby the field is resuscitated and made profitable for future crops. The more customary habit is to first mow off the plants,
grass and weeds and remove them from the field grass and weeds and remove them from the field
and 'then burn them. Then two furrows plowed between the matted rows, and the fleld is harrowed ' with a common levelling harrow, either lengthwise or crosswise. This scatters the
soil ini about the plants and next spring the whole field is practically a new plantation. The other system is to maintain the same bed in-
definitely. During the fist definitely. During the first season, cultivation must be thorough, but in the second year the
runners are trained out into the centre between the rowa and here a new rowt is established which
will ultimately become the source of the crop. will ultimately become the source of the crop. The parent row will then be plowed up, and cultivated as was the space between the original
rows at first. This system of transplanting the rows at irst. losing the crop any one year may
rows without lo
go on indefinitely, provided the cultivation is equal go on indefinitely, provided the cultivation is equal
to or in advance of the growth of weeds. When they obtain possession of the field
of crop is the only avenue of escape.

Put the Tomato Crop on a Safe

## Basis.

The latter part of May will see the tomato districts where early tomatoes are in any way a part of the setting to supply colme the major part of the setting to supply the canning fac-
tories and the late tomato demands. The plants which have been set for early toimatoes have been reared in the green-houses and matured or
hardened in the cold frames and are ready to go hardened in the cold frames and are ready to go are too careless about the quaplity of the prowers
they set, for canning purposes especially, and they set, for canning purposes especially, and
think that so long as they once get hold on the ground that amends will be made by future young plant. We have noticed a difierence in young plants which can best be represented in
bushels, and it would be at least 100 bushel per acre. When the young plants are spindling,
weak or started on improperly mixed soil, they will not come along and resist the blight as well under any conditions as will the more vigorous plants, and a grower can well incease his crop
by 100 bushels per acre simply through the selecion of strong, vigorous plants to set.
The soil for a good crop of canning tomatoee nust be sufflciently loamy that cultivation after every necessarily be postponed or delayed given to the crop by cultivation immediately continue a liberal shower. Cultivation should horse or implement. plants are injured by the canning tomatoes is 4 feet by 4 feet, which re quires 2,722 plants per acre. This allows for cultivation in both directions, and when proper ly d.
The cost of growing an acre of canning to-
matoes is estimated all the way from 885 to $\$ 60$. Tkis depends very much on the amount o In some places plants which have plants set trans planted twice are thought economical. in the end and cost in the vicinity of 5 cents apiece. When of growing will be comparatively high. The of growing will be comparatively high. The bushels harvested. 400 bushels per acre is con-
sidered a fairly good crop, and selling from 30 sidered a fairly good crop, and selling from 30
to 35 cents per bushel as they do, in different sections, a satisfactory balance remains in favo of the grower. In the County of Prince Edward in Ontario the canning crop industry has grown
to considerable proportions, and although the to considerable proportions, and although the
average crop per ace in that county has not
reached the 400 bushel mark, there are many who consider that anything less than that is not satlargely increased by a systematic and proper
largely andion of the seed. They have not depender selection of the seed. They have not depended entirely upon the canning factories to supply
them with good plants and good seed, but they
have gone into their own fields and selected of the proper kind of fruit, and have saved the fruit from those plants and have produced their own seed. (We use the term "fruit" as applied
to the tomato without wishing to enter into any controversy regarding the botanical correctness
of the word.) Healthy vines bearing few toof the word.) Healthy vines bearing few to-
matoes is not enough; the plant must be healthy, matoes is not enough; the plant must be healthy,
vigorous, with proper height and thick, stout vigorous, with proper height and thick, stout
stem, but they must have a proper setting of
truit in suffcient quantities. struit in sufficient quantities.
The fruit is harvested from these vines, cut crosswise and all thrown into a large container.
Rain water or brook water is added to this until the receptacle is nearly fuli. Rain water is used principally because well water would be so cold that fermentation in the pulp would not
commence with sufficient vigor. The contents commence with sumficient vigor hours for fifteen hours, then fermentation will have separated the
pulp from the seed to a certain extent. The pulp from the seed to a certain extent. The
pulp is then skimmed off the top, after which more water is added and the remining contents of the receptacle are thoroughly stirred and
again allowed to settle. After several stirrings, again allowed to settle. After several stirrings, barrel are poured out and the seed recovered. The water is pressed from it, and it is then
Tpread in some dry and convenient place where spread in some dry and convenient place where
it is turned two or three times a day for the first week, and once a day for a couple of weeks.
After this it will be ready to bag-up and hang first week, and will be ready to bag-up and hang
After this it win
in a convenient place free from vermin. in a convenient place free methon seed selection the weak and unproductive individuals have been eliminated, and the seed and young pantity. This has led to an increase in the yield lamong the Looking after a field of canning tomatoes is no easy task, and is the grower, goes about it in an indifferent manner and depends upon any
kind of plants which he is able to procure, the probabilities are that he will be playing a losing game, but by securing plants that have been transplanted at least once, hardened off in the cold frame, and not subjected to any setbacks, he

Excepting Peaches, Prospects are Good in Niagara District.
Editor "The Farmer's Advocate"
It is now very evident that the peach crop in the Niagara District is practically a complete will bear only serve to accentuate the dismal barrenness of the other trees. Further than this trees themselves will not survive, especially the older trees on the lighter and' more porous soils. Strawberries, raspberries, currants and goose-
berries continue to appear in excellent condition, berries continue to appear in excellent condition,
and I look for a good crop of these fruits under


 the fancy varietiee are no better than a
crop. Pears are heavy, with the exception ol Bartitets, which vary fromi por to medium
Apples are looking exceedingly well, and promise applea dy crop Grapes are still in the doubtul class, jas I I think they also have been nurt
the winter. The wee
The weather for the past week, during the
blossoming period, has been bright and warm and very faverable to pollination.
Lincoln Co., Ont.
W. D. DEWAR.

## POULTRY.

## Gapes in Chicks.

From the age of two or three weeks to a couple of months the young chicks are very
liable to suffer from that pernicious pest known as gapes. This is due to the presence in the wind pipe or bronchial tubes of very thin, thread-like, reddish-colored worms which adhere usually manifest their presence by coughing sneezing or gaping for bneath. This trouble can often be obviated by running the young fowl on birds of thas not been ranged over by dineased ploughing up the lot after which it is given a thorough liming. When the young chicks are afiected the worms should be removed in sor or but the old-time practice of putting severa chicks into a closed barrel containing dry, airslaked lime
discarded.
practiced, the foll the treatments commonl Some poultrymen strip a small feather down to a point, and after slightly moistening it in tur should be taken that it does not enter the gulle instead of the wind pipe. After a time the chick will cough up the worm. Others enclose them in a tight box and fumigate with camp of kerosene in the water and some dissolve camphor gum in the water and give no othe drink, therelo water enly enough to slightly flavor the water is sufficient, for if any more is added they will positively refuse to drink it. Perhaps a older method than any of these is to make
loop from a strong horse hair and insert it into the wind pipe, pulling it out in a spiral manner; this often removes the source of the trouble claims to have treated forty chicks in a short claims to have treated forty chicks in a short
time by, taking the bird in the left hand and


Good Prospects for Apples.
squeezing the wind pipe slightly fromi one end to the other, after this treatm
soon coughs up the worm.

How Long Do You Starve Chickens? After reading the suggestions as given by the Poultry Division of the Experimental Farm, Qttawa, in our issue of May 14th a roader called at our office to protest against the length of time wich watch chickens were fed any in rim. According to the sed it has a sufficient supply of nourishment within itself to last it several days ind what it requires most is not feed, but warmth and whe on in the article it was advised to allow the chickens to go until between the second and third day after hatching. Of course, we take it that if the chickens showed signs of hunger that they should be fed a little earlier. Our subscriber did not think, it advisable to leave the chickens so long without feeding. He tested the matter this spring and left some of his chickens forty hours after being hatched before he gave them any food at all. He had a large percentage loss with these chickens and stated that before being fed they seemed to have grown wans a well-known local poultrynedia who advised him to feed the chickens when man who adwisedy-four to thirty hours old and not leave them longer than thirty' hours without feeding.
There is a good deal of loss with young ing and we believe this is the case on the farm, more than where poultry keeping is carried on as a specialty. Very often the farm chickens are fed just as soon as hathed. Wuch prominence is being given by poultrymen to the delay in feeding them.
A few years ago the experience of poultry keepers seemed to indicatie that twenty-four hours whis has been increased and possibly the fortyeight to sixty hours which some recommend may be slightly too long a time to allow the young sters to depend upon the food material obtaine perience of readers of 'sThe Farmer's 'Advocate' on this particular question is invited.

## Good Summer Eggs.

The problem in the pouitry-house in the winter is to produce eggs at all, but during the summer months it is usually not very difficult to get eggs, but a good deal of care is necessary that these are marketed in the best possible condition. Nothing has hurt the egg trade more twan placing upon the market a quality of eggs far below what it should have been. During ver hot weather which is now near at hand every poultry owner who wishes to make awod, fresh himself in the production and sale of good, frock eggs should remove all male birds from the people his is far more important than most phe nests dur realize. Hens often steal away lhe very high temperatures in the poultry-house may, in a shor time cause fertile egg to commence is tion. With the male bi
Another point which should be more carefuli Another point which should be more carefular
watched than during the winter months is regula gathering of eggs. Where possible it
gather these at least twice a day, and under no gather theses prmit broody hens to remain on the nests in the pens with the laying hens. Eggs when gathered should be stamped with
the date of laying, and marketed as quickly as the date of laying, and marketed as quickly as possible. Egg-circle patrons unders not situated
value of this proceeding, and others in a district where egg circles are in operation
could nrofit hy the experience of those who have could profit by the experience of those who have
marketed through the circles. It is no more marketed through the circles.
difficult for an ordinary individual to gather the eggs frequently and market them regularly than
it is for those connected with the egg circles. it is for those connected with the egg circles. Many neglect during the summer months bad
keep the nests clean, and this is a cause of bad keep the nests clean, and this is a cause from
eggs and vermin in the poultry-kouse. From
time to time all nests should be cleaned and fresk, straw put in. This will mean a better
class of eggs, cleaner eggs, and fresher eggs. A class of eggs, cleaner eggs, and fresher eggs. A
few of these small points will mean twolor three
cents a dozen on the product at marketing time, Which, on
sideration.

Away With the Male Birds. The poultry division of the Live Stock Branch
recently sent out a small leaflet which contains recormation upon which all poultrymen should
informa act. We reproduce it herewith
"Eggs which have been fertilized consitute the greatest proportion of the inferior stock which
when examined, When examined, proves unfit for food. It is not
necessary that these shall have remained for time under a broody hen, a temperature of seventy
degrees being, in itself, sufficient to degrees being, in itself, sufficient to cause the
germ to commence to grow. If the heat is congerm to commence to grow. If the heat is con-
stant the development of the chick will continue, stant the development of the chick will continue,
but if it ceases or is intermittent, putrefuction at once sets in and the egg becomes. Dud, (n the
other hand infertile eggs which are free from the active germ cell, do not, under ordinary condi tions, deteriorate seriousiy,
Few farmers seem to realize these facts, and consequently very few make any eflort to insure
infertility. The impression prevails amonig many infert the presence or the mallo bird in the flock is essential to the production of a maximum number of eggs. This assumption has been
proven, time and time again, to be absolutely proven, time and
without foundation.
Farmers and others selling eggs for market male birds after breeding season. As a nesult o their remaining with the flock after June 1st Canadian farmers lose each year at least a mill
Hion dollars, through the presence of partiall incubated eggs in the produce which is marketed The fact that the best trade in many cities in Canada now offers the premium of from one to five cents per dozen, for non-fertilized eggs, sug-
gests an additional financial consideration which nut few can afford to nyerlook.

## FARM BULLETIN.

## Progress on Prince Edward Island.

The thirtenth of May and no work in pre paration for the crop done yet. The weather is
till cold and though some of the fields are firming up a little, there is no land fit for cultivation. The writer only remembers one later sea-
son. In 1888 there was no working the land unil May 20th. Still, that year we had a good growing season, and splendid crops with harves
tot too late. The snowfall here was heavy in the winter and continued through most of April
and as there was very little frost in the ground and as there was very little frost in the ground
about all the moisture from the melting snow as well as the rain, has been retained in !the soil We are hopeful, therefore, thoumh the coop wil full crop will' be reaped. Farmers are hoping to get on the land in a few days. Fodder is getting
scarce with many of the poorer farmess, and all scarce with many of the poorer farmers, and ane
stock is still on full feed in the stables, even the sock is stili on full feed in the stabies
sheep cannot get their living on the fifids.
The dairymen are, preparing for the opening of
the factory season, on June 1 st, with a hopefu
 Che eastern part of the Island have closed, and
are shipping their cream by rail to
a contral creamery, hoping thus to reduce the expense of manufaturing The tendency of our dairy busi-
ness is strongly toward butter making instead of ness is strongly toward butter making instead of
cheese, and the indications are that in a few years our dairy export will be mainly butter. Rest beef cattle for June
$\$ 8.00$ per hundredweight.
These high prices are encouraging farmers to
pay more attention to the beef breeds, and there are more and more enquiries for the Shorthorn. Since the organization of Farmers' Institutes
some twelve or fourteen years ago very much more some twelve or fourteen years ago very much more
interest is taken in cattle breeding. The Institutes
have have been the means of distributing a very large
number of pure-bred sires of all breeds among number of pure-bred sires of all breeds among
the farmers, and hough the scrub bull is still
to a certain extent in evidence most all of our stockmerta especially all wivence molong to the Insti-
tutes, insist on using only the best type of puretutes, insist on using only the best type of pure-
breds in their herds.
Co-operation through the breds in their herds. Co-operation throug the aii
Institutes has been of great benefit along ant lines of stock beeding, and has ben a great
education to our farmers in all branches of proThe Womens' Institutes lately organized are
supplementing the work by doing (er the home supplementing the work by doing co the hore
many things that will make life on the farm
more attractive and enjoyable. We notice on more attractive and enjoyable. We notice on
tho proprammes of these mectings very many
manters dealt with, such as short cuts in mouse hold work, beauthyifing the surroundings of the
farm home by having artistically laidoff lawns
 inn to make them a thing of beauty instealice
an eyesore to residents and travellers alike
They are also in many cases helping to better
furnish the sehool-houses by placing in them
properly-covered, sanitary drinking fountains. When the ladies take these matters with confidence for great improvement. ©nce ple things will then go go along from good oll the peo-
to better. Another co-operative matter that has spread over the Island and has to do with the mprovement of one of our biggest articles of exthese circles agg circle. In the organization of met with. The big egg shippers, and the counthemerchants see some trade slipping away from to reform it, are putting up all the fight they can against the co-operative handling of the eggs ing a little more than go the leggth of paymarkets in hopes that they may injure or kill off this movement. But most of the eggg producers
can see through their little game, and will stick to the circles and be satisfied with the market value of their produce rather than gain a trifle more and lose immensely more if the egg trust
gets its own way, The co-operative spirit seems -with a grip that is going to hold. But what ever happens the circles have already reformed our egg trade, which is proved by their op-
ponents adopting circle methods, instead of tak ing good and bad eggs from the producers at flat rate. Farmers should stand by one another In all co-operative movements, and not be de
ceived by those whose interest it is to exploit ceived by those whose interest it is to exploit
them and their business for private gain. We look for a great expansion of our egg and
poultry business as a result of this last co-
operative movement. operative
P. E. I.

## Ontario Crop Prospects.

The following statement regarding crop con-
ditions in the Province, based on the returns ditions in the Province, based on the returns
correspondents sent in, on or about the 15 th May, has been issued by the Ontario Department of Agriculture.
In the April crop bulletin, which was based on statements of correspondents reporting on the
first day of that month, fall wheat prospects were said to be encouraging, as the crop had come through the winter practically unscathed. April, however, proved to be a most trying time
for the young wheat, and it suffered severely fro tor the young wheat, and it sumered severely
the formation of ice and from ".heavin." area plowed up this spring will not be relatively great, as farmers have preferred to drill barley or other spring grains in the bare spots rather
than lose the grass that was seeded down with the fall wheat. ' Some cornespondents report most promising outlook on high and well-drained land, but the bulk of the fields are more or
less
spotted, or patched in with other grain Very little injury from insects has been eported, odd mention only being made of the Hessian fly. As in the case of fall wheat, clover fields ar very variable in appearance. This crop also sufthe early part of April, which caused considerable heaving, especially in low and poorly drained situations, although some correspondents report
the fields as looking well on rolling and well drained lands. Two-year-old clover is much poorer than that in the new fields, as the older droughs were greatly tried by last summer that many Some corresporidents also point out ped last fall for best nesults.
Alfalfa has not come through the winter quite so well as clover. There is a strong desire ex-
pressed by correspondents for a bardier variety of alfaifa suitable for the climate of this Proy incè, and Prof. C. A. Zavitz, of the Ontario Ag as being hopeful that he will be able to satisfactorily meet this need very soon.
Correspondents differ greatly as to the present
stage of vegetation, some stating that the season stage of vegetation, some stating that the seaso is well forward, while others claim that it is
week or more late, the first two weeks of May having been too cold and wet for much prowth. Cattle and sheep were reported to the on the of May. When correspondents wrote tegetation of May. When correspondents wrote cgetation
in the fields appeared to be more limward The low and sustained dips in the temperature at times during the winter caused much anxiety among growers of peaches and other tender iruits,
and the results have shown that they had reason for their fears. In nearly every peach section,
the fruit buds have been more or less frozen back. In some cases in the Niagara district the loss will
be almost complete, while in Essex, Kent and Iambton the injury has been lighter. One cor-
respondent points out the fact that early varieties have escaped better than the later surts.
However, there has been comparatively 110 root
freezing, and our great peach industry at the
most is likely to suffer but one season's loss in most is $11 k e l y$ to suffer but one season's loss in
bearing.
On the other hand apples, pears, cherbearing, On the other hand apples, pears, cher-
ries and plums are very promising as to blossom, but the presence of the San Jose scale and the oyster-shell bark louse is threatening many or-
chards. The tent caterpillar is also much in Smalle in York and other counties to the east. Small fruits have come through the winter with are good. Colle little injury, and present prospocta the increase of the practice of spraying fruit trees, but complain of the lack of competent farm
help in orchard work
During the past seven years the farmers of ontario have learned to make their fodder sup. plies go farther than formerly, Hay and grain
are now fed sparingly, the coarser fodders being are now fed sparingly, the coarser fodars
much more largely utilized. The quantity of hay on hand in most quarters is said to be sufficien for emergencies; but while individually some re-
port a surplus others have had to buy in order port a surplus others have had to buy in orde
to carry live stock over until they could be pil on the grass. All classes of grains are being more and more fed on the farm, althaugh it is
likely that a decided rise in prices would bring kely that a decided rise in prices would bring The a fair supply of wheat, barloy and oad
The rather backward spring, however, has had a The rather backward spring, however, has had a
tendency to decrease any surplus of either hay or grain.
The gin was in a splendid condition for a seed bed in the latter part of April, even heavy clays
having been well pulverized by the severe frosts which occurred during the winter. Farmers who
whing got on the land to sow early were well gavanced -and some through-when returns were made; but been tardy from getting to work for of week, and in such cases seeding was more or less unfinished, while the soil was in a much stifer condition than at the opening of the season. The genere
tone of the reports is very satisfactory, excent in the case of some from the low-lying townships of Kent and adjoining counties.

## Peaches Promise Well Around

 Leamington.$\qquad$
 the peaches. The tenor of most reports has been peaches. The tenor of most reports has ben
that there would be no peaches at all and it is now generally conceded that the Niagara District, where the main bulk is produced, will have an off year. Lambton County will have few to offer and there only remains the savtions in proz mity to Leamington and Kingsvio in Easso County, Onar, that igure approciably in the representative of "The Farmer's Advocato", was pleasantly surprised on May 21st, when visiting those districts to find a good show of bloom and in almost every blossom a peach in the early
stages of development but large and healthy enough to guarantee a fruit. A lew young trees suffered during the cold winter weather, but in
most orchards the trees are unhurt and the older trees give promise of a good crop of peaches. Trees give promise of a good crop of peaches.
The Leamington District has sulured in the past
when Niagara was spared but the fates have been when Niagara was spared but the fates have been amends will be made for previous visitations if amends wil be made for previous
nothing interferes between now and the tharvesting season. What factors have contributed to
this condition would be hard to explain but the fact remains that Leamington growers are very optimistic regarding the crop. There appears to be little difference in the way and extent to which the different varieties have withstood the cold. The desirable commercial varieties seem to luave
been as hardy generally speaking as the whitebeen as hardy, generally speaking, as the white-
flesh and less desirable yellow-fesh kinds. There is a difference in the hardiness of the highly commercial kinds themselves, but taking the peach crop generally one cannot discriminate between
the good and the bad varieties as to how they the good and
have wintered.

A bee-keerers' field day will be held in the
apiary of John Newton, near Thamestord, in Nissouri township, Middlesex County, Ontario, on Thursday, June 4, at 1.30 p.m. A qualifed apiary instructor sent out by the Department of
Agriculture will show how to examine hives for disease and will put a colony through the treat ment for cure, and also render old combs into will be demonstrated, such as finding the queen, removing bees from supers, operations to prevent
swarming, etc. A live discussion in which local be-kcepers will take part is looked forward to. Those interested in bees should make it a point

Corn Growing now a Greater Industry.
Corn is king in Essex County, Ontario, at
the present time. On the Essex farms it is bethe present time. On the Essex farms it is be-
ing placed in the ground while car load atter car load is being shippedd away to plant the corn
fields in more northern and eastern counties. The seed-corn-growing industry has assumed
gigantic proportions in the south-western coungigantic proportions in the south-western coun-
ties of Ontario, and it would be a very conservative estimate to say that over avo,000 bushels
this year sold for sed this year sold for seed from that district.
When we remember that $a$, bushel of corn will phen we remember that a.bushel of corn to six acres of land it will then dawn upon the reader what part this section of
Ontario plays in producing seed corn for Canada's corn-growing districts. Not only is the southern part of ontario devoted to the growt
of corn, but this seed is now sent into Quebec and the Maritime Provinces, and into Manitoba
and Saskatchewan in the West, whie New York State is a good buyer, and Michigan takes State is a good buyer, and Michigan takes a
small quantity. The old-time practice of im porting seed corn from the Southern States has been reversed, and now we find the northern-
grown seed being shipped south across the line grown seed being shipped south across the line
One of the men prominent in the shipping o seed corn is J. O. Duke, Esseex County, who started into the winter's business last fall with
110,000 bushels of seed corn, and from the 15th 110,000 bushels of seed corn, and from the 15 th
of March to the 15 th of May averaged a car load a day in shipments. These car loads would average about 400 bushels each, and represent Mr. Duke has always been enthusiastic about th selection and growth of corn, and the success of
the Ontario Corn Growers' the Ontario Corn Growers', Association is largely
attributable to his efforts in its initial stages of attributable to his efforts in its initial stages of
development. Mr. Duke has decided views re garding the dimensions and characteristics of an
ideal cob of corn Ideal cob of corn. In expressing his views, to representative of "The Farmer's Advocate" he
produced a cob of corn which he had salected a typical ear of the white Cap Yellow Dent variety. This ear was $8 \frac{1}{2}$ inches long and 69 inches in circumference around the centre of the
cob. This might be called a medium-sized ear by many, but when one comes to consider that there are 10,734 stalks of corn on the acre when planted 42 inches apart with three stalks in the hin the vicinity of 175 bushels of cob corn, which has more than doubled the average yield in the Province of ontario. Where large cobs are pro
duced on one stalk in the hill duced on one stalk in the hill, shall ones or
nubbins are often noticeable on the other stalks
of the same hill. These nubbins are not salabie medium-sized cob, consequently by velecting the cob of medium proportions with goo vortality, the
possibilitities of increasing this crop are almost possibintit
unlimited.
Prominent among the growers of seed corn and one who makes a study of the industry in County Years ago when Reid's Yell was being grown with orly moderate success, on
account of its lateness of maturity, Mr. CoatsWorth set out to retain the type of Reid's qualities. This he has done, but the type has not been altogether retained, for the original number of rows ranging from 20 to 22 has been
rediced to about 16, and this appears sufficient for the length of the growing season which Essex enjoys. The deep kernel and strong vitality of
Reid's Retd sed Yellow Dent when matured have been
retained in this selection, which outsiders named "Coatsworth's Hybrid." The originator of this strain devotes considerable time to selecspring was asked to make a ermination this his corn they returned a report announcing 100 per cent. germination. This vitality in the seed and the decreased period required for maturity
has fully repaid $\mathbb{M r}$. Coatsworth for his years seiection and care. Where the land is tile drained Mr. Coatsworth is in favor of fall ploughing for corn, but where
artificial trainage
is absent he finds it adzen tageous to plough in the spring and work the 1 land thoroughly. Manure at the rate of about in loads per acre is applied either in the fall or
in the spring, and the corn is planted at the usual distance of $3 \frac{1}{1}$ feet apart in hills. After the corn has been in the ground about three days a rigid-tooth harrow is run lengthwise of
the rows to iosen up the crust and eatablich of surface mulch. The crop receives no hand koe ing, but Mr. Coatsworth endeavors to cultivate Althouch the times in each direction.
o the hill more are sometimes dropped kernels where this condition exists the extra plants and pulled out, leaving only three to the hill. When
moisture conditions are right the seed is covered about one and one-half inches deep, but this would be increased in a time of dryeness and Oots usually follow the corn, and the iand is seeded down to clover. This is often pastured rotation in which the clover appears freauently
eliminate the necessity of artifciel fertilizer One hundred bushels of corn per acre is consid ered a good crop on the Coatbworth farm, but
this is not always obtained, neither is it the maximum yield.

International Good Roads Congress Lnternational week there was held in Montreal the first Iterrational Good Roads Congress, at which
men interested in the good-roads gathered in large numbers. $i$ From reports, how ever, it would seem that a greater number of for prosent were mare interested in good roads farmers. However, the Deputy Minister Roads for for Quebec made it plain in a short address tha could farmers must be satisfied before very much could be done in the way of improving highways. Most of the addresses were given by prominen
men, many of whom men, many or whom endeavored to show what
automobile organizations had done towards highway improvement.
The committee appointed to look into the mater or a permanent organization brougkt in a
report at the last session recommending that
this organzation this organization be permanent, and named ned that
the offcers who were elected as follows: named the
U. H. Dandurand : President, w. A Mres. Toronto; First Vice-Pres., D. Michaua, Deputy Minister of Roads fre Quabec ; Second Vice
Prest, O. Hezzelwood Prasident Pres., O. Hezzelwood, President of the Canadian
Automobile Federation Siche McNamee. The Directors elected were fairly Well representative of the Dominion from British Columbia through the Western Provinces down brought out the fact that automobilists shourd contribute more than they do to the upkeep the roads. The decision as to where the Con
gress will convene next year wa gress will convene next year was left to the
officers and Board of Directors peg, Ottawa and Quebec were all anxious to ge the Congress
British an auction sale recently held at Matsqui, British Columbia, twenty-iight head of cows,
mostly age with a few choice Jersey to six years of grades averaged $\$ 172$ each, eighteen weraor $\$ 201$ each, and six averaging $\$ 237$ each. Wm Atkinson of Chilliwack was auctioneer, and the

Beehive the unbeaten thre property of Harry Giddings, Oakville, and the
favorite in the race Dark Rosaleen and ${ }^{\text {and }}$ Sea Lord second and third

## Toronto, Montreal, Buffalo, and Other Leading Markets.

 The total receipts of live stock City and Union Stock-yards for the pastweek were

|  | city. | Union. | Total. |
| :---: | :---: | :---: | :---: |
| ${ }_{\text {Cars }}$ | 8 | 351 | 359 |
| Cattle | 74 | 4,4 |  |
| Sheep | ${ }_{82}^{115}$ |  |  |
| ${ }_{\text {Salve }}$ |  |  |  |
|  |  |  |  |
| The total receipts of live stock at the two markets for the corresponding week of 1913 were |  |  |  |
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| The combined receipts of liv |  |  |  |
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| $\begin{aligned} & \text { The supply } \\ & \text { was liberal, } \end{aligned}$ |  |  |  |
| n rally good. |  |  |  |
| cl murkit day |  |  |  |
| 1nys bclassin |  |  |  |
| chases found work, the |  |  |  |
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| mevers has insroased |  |  |  |
| have been buying |  |  |  |
| As regardswote almost |  |  |  |
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$\underset{\substack{\text { Barley.-For malting, } \\ \text { side. }}}{\substack{5 c \\ \text { s. to } \\ 56 c \text { c., out }}}$
 Flour-Ontario, 90 - per - cent. winter
Wheat patents, $\$ 3.80$ to $\$ 3.85$, bulk
senot
 patents, $5.10 ;$ in patents, $85.60 ;$ second
cotton, 10c. more - Warers', 84.90 , in jute.

Hay, - Baled, car lots, track, Toronto
No. 1, $\$ 14.50$ to $\$ 13.50$ per ton.
Straw - Baled, car lots, track, Toronto $\$ 8.50$ to
Bran. - Manitoba, $\$ 25$, in bags, track
 toronto seed market
The following are the prices wholesale seed merchants are quoting to the trade:
Red colover, No. 1, , $\$ 19$ to $\$ 21$ per cwt;
red


 but Country produce,
Butter.-Receipts have been liberal,
causing
 ids, 24 c, . separa
forere 1 ots, 20 c
Eggs. -The market for new - laid eggs
was easy, at 23 . to
240 . Honey. - Extracted, 9 .
$\$ 2.50$. per by
$\$ 3$ Beans-Imported, hand - - icked, $\$ 2.40$
Canatians, hand Canadians, hand- picked, 82.40 ; primes
$\$ 2.25$ per $\$ 2.25$ per bushel.
Potates.
bact
trar


## THE ROYAL BANK OF CANADA <br> Cplof Contar para Romit heend <br> E.000,000 180,000,000 <br> HEAD OFTICE: MONTREAL <br> Branches throughout every Province <br> Accounte of Farmere Invited. <br> Sale Notes Collected.

Savings Department at all Branches.
wesd and crice-storago it now being

 hens, per ib., 14e. to
HIDES $A$ ND skinss.










 rhutiarb, 25 c. per poran: strawnerribes

## Montreal.





 good at $7 \frac{1}{2} \mathrm{c}$. to 8 c .; medium from $6 \frac{1}{2} \mathrm{c}$ c.
to 7 t c ., and common down to $5 \frac{1}{2} \mathrm{c}$. pe

 lbe Spring lambs wore in wery goo
demand, and the ouality all that can
and demand, and the quality all that can b
desired. Prices ranged from $\$ 4$ to $\$ 8$
each, according to size. Yearling lamb ranged from 8c. to $8 \frac{1}{2}$ c. per lb. Calve
sold at $\$ 3$ to $\$ 6$ for sold at $\$ 3$ to $\$ 6$ for ordinary, and up
to $\$ 10$ for the best. The demand fo
live hogs was moderately live hogs was moserately active, but th
range of prices was lower. Ontario hog range of prices was lower. Ontario hog
sold at 9c., and Manitobas at $8 \frac{1}{8}$ c. to
fraction higher, weighed off cars. Horses.-Buying has fallen off, and som think that the outlook for the hay crop
is partly responsible. Horses weighing om 1,500 to $1,700 \mathrm{lbs}$, sold at $\$ 275$
to $\$ 300$ each; light dratt, weighing from , 400 to 1,500 lbs., $\$ 225$ to $\$ 275$ each boken-down, old animals,
and choicest saddle and
mals, $\$ 350$ to $\$ 400$ each
Poult Poultry--Prices continued unchange
 Dressed Hogs.-There was practically
change in the market during last Abat oin-dressed, fresh-killed hogs, at 123c. to 13c. per lb.
Potatoes.-Prices of potatoes contin
to advance wek by week, owing to ligy
offerincs. Green Mountains, in car lot
 ed at $\$ 1$ to while Quebec stock was quot- $\$ 1.05$ an a smaller way.
prices ranged from 15 c. to 20 . higher

| ey and Syrup.-Maple syrup |  |
| :---: | :---: |
| c. to 65 c . in small tins, and up | Monday, toppy, floshy feeders, sold up to $\$ 8.10$ to $\$ 8.15$, and $\$ 7.80$ to $\$ 7.85$ took |
| 85 c . for $11-\mathrm{lb}$. tins. Sugar was 9 jl c . to 11c. per lb. White clover comb honey, 14 c . to 15 c . per lb .; extracted, 10 c . to |  |
|  | some lightish kinds of stockers. Velittle in the light heifer line running b |
|  |  |
| strained, 6 c . to 8 c . per lb . Eggs.-Demand | low $\$ 6.25$. Demand strong fur all grades of feeding cattle. Bulls sold <br> steady, but this is the season when big |
|  |  |
|  | steady, but this is the season when big, heavy ones, are apt to take a slide at |
|  | any time. Milker and springer trade has been the same for the past few weeks, |
|  | large, good milk -producing kinds being |
|  | ready sale. Sellers are advising shippers to keep springers on dry feed at |
|  |  |
|  | vent staggers, which grass and hot wea- |
|  |  |
|  | comes warmer, handier cattle get morepopular. Lighter cuts are demanded. |
|  |  |
|  | However, sellers think that there |
|  |  |
|  | some prime, weighty cattle, but not very many, as the big killers prefer the |
|  | handier kinds during the summer months.Yearlings are selling high, and will no |
|  |  |
|  | Yearlings are selling high, and will no doubt continue to bring big money. Light, good qualitied and well - finished |
|  |  |
|  | heifers are fetching strong prices, and will no doubt continue good sale. By |
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|  | 5,175 head, as against 4,325 for the |
|  |  |
|  | corresponding week last year. Quotations follow: |
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|  | Best 1,850- to $1,450-\mathrm{lb}$ b steers, natives,$\$ 8.75$ to $89 ;$ best $1,200-$ to $1,300-\mathrm{lb}$. |
|  |  |
|  | $\$ 8.75$ to $\$ 9$; best 1,200 - to $1,800-\mathrm{lb}$. steers, natives, $\$ 8.40$ to $\$ 8.65$; best |
|  |  |
|  | to $\$ 8.25$; coarse and plain, weighty steers, natives, $\$ 7.75$ to $\$ 8$; fancy year- |
|  | lings, baby beef, $\$ 8.50$ to $\$ 9$; medium to good, $\$ 8$ to $\$ 8.25$; best Canada steers, |
|  |  |
|  | 1,350 to $1,450 \mathrm{lbs}$., $\$ 8.40$ to $\$ 8.65$; best |
|  |  |
|  | to $\$ 8.25$; choice handy steers, 900 to $1,100 \mathrm{lbs} ., \$ 8.25$ to $\$ 8.50$, fair to good |
|  | steers, 1,000 to $1,100 \mathrm{lbs} ., \$ 8$ to $\$ 8.15$; |
|  | extra good cows, $\$ 7$ to $\$ 7.25$; butcher cows, $\$ 5.50$ to $\$ 6$; best heilers, $\$ 8.25$ to |
|  |  |
|  | \$8.50; medium butcher heifers, $\$ 7.75$ to \$8.50; mo ha bincer hello, tive to |
|  | ing steers, dehorns, \$7.85 to \$8.10; |
|  | best stock steers, 87.50 to 87.75 ; com- |
|  |  |
|  | extra good bulls, $\$ 7$ to $\$ 7.25$; best milkers and springers, $\$ 75$ to $\$ 90$. |
|  |  |
|  |  |
|  |  |
|  | 31,040 Monday, it was generaly an$\$ 8.85$ market for best grades, pigs sell- |
|  |  |
|  | ing up to $\$ 9$, and the market for thenext few days was a little stronger,Thursday packers paying up to $\$ 9$ forsome of their kinds, with pigs and lights |
|  |  |
| Lower cattle market the past week, shipping steers going off from 15 c . to | reaching $\$ 9$ to $\$ 9.05$. Friday's trade was 5c. to 10c. lower. Receipts included 33 decks of Canadian hogs the |
|  |  |
|  | cluded 33 decks of Canadian hogs the past week, and they sold from $\$ 8.75$ to $\$ 8.90$, four detks Friday moving at |
|  |  |
|  | Sheep and Lambs.-Heavy receipts Mon-day resulted in a break of a quarter on |
|  |  |
|  |  |
|  | lambs. tops selling mostly at $\$ 8.50$ to $\$ 8.60$. Tuesday, prices ranged from |
|  | \$8.60. Tuesday, prices ranged from |
|  | steady; Thursday, top lambs reached |
|  | $\$ 8.65$, and Friday, values dropped back to $\$ 8.50$, good toppy ones selling as low |
|  |  |
|  | as $88.25 . \quad$ Cull lambs the past week ranged from $\$ 7.75$ down. ${ }_{\text {a }}$ Sheep were |
|  | scarce and firm all week. Top for ewes |
|  |  |
|  | up to $\$ 6.65$ to $\$ 6.75$. Heavy sheep |
|  | were dull, and undersold the handy ones <br> by from 50 c . to 75 c . per hundred, some |
|  | heavy wethers selling at 86 , while heavy |
|  |  |
|  | ewes landed down to $\$ 5$ to $\$ 5.25$. Re ceipts the past week were 28,200 head, |
|  | $\begin{aligned} & \text { as against } 25,600 \text { for th } \\ & \text { and } 28,200 \text { a year ago. } \end{aligned}$ |
|  |  |
|  | Calves.-Values the middle part of the week reached as high as $\$ 11$ for tops, and before tne week was over, buyers got |
|  |  |
|  | and before tne week was over, buyers got toppy ones down to $\$ 10$ to $\$ 10.25$ |
|  | Cull grades $\$ 9$ down, and feds $\$ 5$ to |
|  | week. Receipts were 4,225 for the past |
| rance of from $\$ 8.35$ to $\$ 8.50$. A | week, 3,700 for the previous week, and3,225 for the same week last year. |
|  |  |
|  | Butter-Demand light; steady tubs, 27 c <br> Cheese-Trade fair; steady. Fancy, old, per lb., $19 \frac{1}{2} \mathrm{c}$. to 20 c . <br> Eggs.-Trade good; steady. White, fancy, 22c. to 23 c . |
|  |  |
|  |  |
| for both kinds. Stock and feeding |  |
| for bontinue to bring high prices, |  |

## Chicago.

Cattle-Beeves, $\$ 7.40$ to 89.30 ; Texas steers, $\$ 7.10$ to $\$ 8.20$; stockers and feed-
ers, $\$ 6.40$ to $\$ 8.55$; cows
 Hogs.-Light, $\$ 8.25$ to $\$ 8.50$; mixed,
rough, $\$ 8.10$ to to $\$ 8.20$, $\$ 8.10$ to $\$ 8.50$; rough, $\$ 8.10$ to $\$ 8.20 ;$ pigs, $\$ 7.50$
$\$ 8.80$; bulk of sales, $\$ 8.40$ to $\$ 8.50$ Shep and Lambs.-Native, $\$ 5.25$ nativ; yearlings, $\$ 8.10$ to 87.15 ; lembe,
native, $\$ 6.25$ to $\$ 8.85$; spring lambe,
$\$ 6.75$ to $\$ 9.60$. $\$ 6.75$ to $\$ 9.60$.

## Cheese Markets.

## Madoc, 11 18-16c.; Peterboro, 12 1-16c.

 and 12c.; Brockvilie, bid from 111. to to12tc. (on the "Street" 11tc.); Vankleok Hill, white, 11 tc., and colored, 11 te.;
Kingston, colored, $1115-16 \mathrm{c}$., and white

## Trade Topic

important announcembin ren CHING CANADIAN PACI
OF TME, ANGE
MAY
81st.
In connection with the coming change
of time on the Canadian Pacific Rallway. of time on the Canadian Pacific Relliway,
effective May 31st, many improvemente effective May 31st, many improvemente
in train service have been made, notable among these being the inauguration of solid de luxe trains, carrying compartment - library - observation car, electric-
lighted standard sloepers, together with Ighted standard sleeperas, together with
standard dining-car service between Mont-
real-Toronto-Ditrole real-Toronto-Detroit-Chicago, via Canadian Paciffe and Michigan Central Rai-
road, commencing westbound May 81st, and eastbound June 1st.
These palatial trains will be known as
No. 19 and No. 22, the former No. 19 and $\begin{aligned} & \text { No. } 22 \text {, the former loeving } \\ & \text { Montreal } \\ & 8.45 \\ & \mathrm{a} . \mathrm{m}^{2} \\ & \text { m., arriving Toronto }\end{aligned}$ 5.40 p . m.; leaving Toronto 6.10 p . m., arriving London $9.15 \mathrm{p} \cdot \mathrm{mm} . ;$ leaving London 9.28 p. m., arriving Windsor 12.10
and a. m.i leaving
arriving
Detroit
11.35
p.
m time); leaving D.troit $11.55 \mathrm{p} . \mathrm{m}$., ar-
riving Chicago $7.45 \mathrm{am} . \mathrm{m}$. riving Chicago 7.45 a. m. m . Chicago 9.80
Train No. 22. will leave Chis a. m. (central time), arrive Dotroit 8.55
p. m.; Leave Detroit 5.05 p. m. (eastera time), arrive Windsor 5.15 p. p. m.; leave
Windsor 5.25 p. m., arrive London 8.10 p. m.i. leave London 8.18 p. m., arrive
Toronto 11.20 p. m.; leave Toronto 11.40 Toronto 11.20 p. m., leave Toronto 11.40
p. m., arrive Montreal 9.00 a. m. These p. m., arrive Montreal 9.00 a. m. The The
two trains will be operated through the Miohigan Central tunnel between Windsor
and Detroit. and Detroit.
The new Toronto-Wionipeg-Vancouver
service should be greatly appreciated service should be greatly appreciated ty
the travelling public. No. 8, now leaving Toronto 10.20 p . mo., will leave at 5.40 p. m., running through solid to
Winnipeg and Vancouver, carrying only the highest-class equipment.
New train known as No. 7, will leave
Toronto $\quad 10.50$ p. m., running through Tolonto 10.50 p. m., running through
solid to Winnipeg, carryting etandard sleeping cars, dining car, tourist sloep-
ing cars, colonist cars, frrst-clasi coaches, ing cars, colonist cars, Arst-class coaches,
etc. Equally good service returning etc. Equally good service returning
from the West.
Particulars fonm ¢ana from the West. Particulars
dian Pacific ticket agents, os M. A
Mur, Murphy, District Passenger Ag 3 nt , To-

## Gossip.

Attention is directed to the advertisement which appears in this issuu of Hol-
steins and Clydesdales, the property of R. M. Holtby, Port Perry. The Clydes aale stallions are rising two years of
age. This good stock should meet with age. This
ready sale.
The Ormstown Ayrshire Sale to be held armstown, Quebec, on June 5th, tig
being contributed to from the leading being contrituted to from the leading
Ayrshire herds throughout Canada.
0 June 3rd and 4th, the stock will be on
exhibition and prospective buyers will ave a good opportunity to make thel ave a good opportunty to make then
selection. Write J. G. Bryson, orms
W. . own and get a catapogue or the event.
The sale offers an opportunity to beed
"Learn anything at school, Tommy ?" Les. Erandpa. Teacher told us that
hoes are made from all kinds of skins." "What about banana skins?"
"Oh, they often make slippers

Spring's Minstrels Little laughter of the grass,
Clappings of soft, tiny hand Chappings or sort, ting hands, Ind relays of fairy bands, And the birds upon the wing
Thol the secret; it is spring !

In the woods the Dryade Hear the sounding pipes of Pan
Leave their temples of the trees, And return to heunts of man? Thd return to heouts of man;
This, the oong they sweety sing:
Ave Ave -It is spring ! Ave! Ave!-It is spring
Fare of sapphire in the sky Haze of opals on the hills,
Brown of brook that, rushing Calls to ite companion rille: These, their notee of welcome bring
Hail! ! all hail! R. w. NoRwood

Browsings Among the Books
$\begin{array}{cc}\text { TFrom } & \text { "Lay Morala,", }{ }^{\text {a }} \text { a serles of } \\ \text { tragments } \\ \text { by Robert Louis }\end{array}$ published after his death, by his wife.]
We have a sort of blindness whid We have a sort of blindness which
prevents us from seosing anything but prevents. us from seeing anything but
soverigns. Io one man agrees to give
nother another so many shililings for so many
hours' work, and then willuly gives him hours' work, and then wilfully gives him
a certain proportion of the price in a certain proportion of the price
bad money and only the remainder good, we can see with half an eye that this man is a thiet. But if the other apends a cartain proportion of the hours emoking a pipe of tobacco, and a
certain other proportion in looking at the sky, or the clock, or trying to call an air, or in moditation on his
own past adventures, and only the re own past adventures, and only the
mainder in downright work such as is paid to do, is he, because the thett is one of time and not of money,-is he
any the lese a thie? The one gave any the less a thie? TTh one gave
a bad shilling, the other an imperfect a bad shilling, the other an imperfect
hour; but both broke the bargain, and each is a thief. In pieco wrok, which
is what most of us do, the case is is none is what most of us on or the coase, is no
the less plain for boing even less the less plain for being even less m
terial. If you forge a bad knite, have wasted some of mankind's money
for your trouble. Is there any man for your trouble. Is there any man so
blind who cannot see that this is thert? Again, if you carelessly cultivate a loose with mankind's's resources against hunger; there will be less bread in consequence, and for lack of that bread
somebody will die next winter. sombobad will die next winter; a grim
consideration. And you must not hope consideration. And you must not hope
to shufle out of blame because you got less money for your less quantity of
bread; for although a theft be partly bread; for although a theft be partly
punished, it is none the less a theft for
 petition; there were others ready
soulder the ersponsibility and be a
swerabe was you who took it. By the act youn
camo under a tacit bargain with man-
kind to cullivaveto that farim with kind to cullivate that farin with your
best endeavor; you werc under no sup-
erintendence






## Little Trips Among the

 EminentCanadian History Series. sir hovenden walker last recorded in then following the events of Canada is but a kaleidoscopic shis ing of scenes of desultory fighting, the French inciting the Abenakis to wreak destruction among the towns of New England, the English, in turn, inciting the Five Nations to make raids upon French Canada,-with glimpses of the faces of the mors eminent men of the
time appearing fituully in the background Vaudreuil (the most eminent French governor) and Ramesay, suber case and $M$. do la Ronde Denys upo the one hand. Schuyler and Nicholson vetch and Dudley on the other. But those who would read the long series of harassing if minor catastrophes of the
time, must seek it elsewhere, nowhere time, must seek it elsewhere, nowhere
better than in Parkman's "Halt Century of Confict," in two volumes. Here but the more spectacular of those events and characters may be touched upon,
and so we come to sir Hovenden Waller and his colossal failure, eminent, indeed, through that failure.
During the reign of Queen Aune, FarkMann tels ws, there were fears abroad in
Englard that the Xew England colonies. England that the Xew England colonies,
and
nict


to give no more aid to Old England in out from a great enterprise will
to give no more aid to Old England in ful, however, of French motives, the emissary's vessel was seized and moored
under the guns of the town, whence under the guns of the town, whence
Denys himself was compelled to watch preparations then afoot for an onslaught upon Canad
In the meantime, tired of the long
and costly Continental War of which Marlborough had been the leading whic England was becoming ready to look to new fields for conquest. America pre sented the greenest of these fields, one
too, that promised gain for England, too, that promised gain for England,
and so a Canadian expedition was and so a Canadian expedition wa
planned and placed under command
Sir Sir Hovenden Walker, and one "Jack
Hill," brother of the Queen's Hill," brother of the Queen's favorite,
Mrs. Masham.
On the 24th of June, 1711, the fleet reached Boston, somewhat to the consternation of the Bostonians, who were
ardered to supply it with provision ordered to supply it with provisions for
ten weeks., "When the troops were disten weeks,; "When the troops were dis
embarked," says Parkman, "'and th tents pitched, curious townepeople and
staring rustics crossed to Noddle staring rustics crossed to Noddle's Island, now East Boston, to gaze with
wonder on a military pageant the like of which New England had never seen before." But there was little enthusiasm among the populace, who were
by no means appeased by the overbearby no means appeased by the overbear-
ing demeanor of the newcomers. Nor
were the British officers better pleased with the Puritanical Bostonians. You'l find in my Journal," wrote Colonel
King, "wwhat Difficultyes we mett with through the Misfortune that the Coloneys were not inform'd of our Coming two Months sooner, and through the
Interestedness, ill Nature and Sowernes Interestedness, ill Nature and Sowerness
of these People, whose Hypocracy and canting are unsupportable."
Nevertheless the Bostonians, through their Assembly, arose to the occasion. All business was suspended, bills of
credit for $£ 40 ; 000$ were issued to were sent out for impressing pilots an laborers, and provincial troops wer raised and quartered upon the citizens.
If sullenly, the citizgns submitted.

On the 30th of July, after a grand review of the troops, the expedition set storeships and other vessels, carrying comploment of nearly 12,000 men in all.
On the 18th of August the ships into the Bay of Gaspe, and two days later, while still above Anticosti a log hand threw the sailors into confusion There was not a pilot aboard any of
the vessels, who could be trusted deed, when at last the fog lifted it was
discovered the discovered that eight transports, one
storeship and a sloop had been dashed storeship and a sloop had been dashed
to pieces. "It was lamentable to hea the shrieks of the sinking, drowning, de-
parting souls," wrote New England parting souls," wrote New
Comnissary, Sheaf. Later it
Comd
Coarned that nearly
leas learned that nearly
sailors had been lost. On the 25 th Walker held a council of
war, with "Jack Hill," and with the war, with "Jack Hill," and wouth the the
colonels and captains of the men-of-war.
".longy "Many a man of pleasure and fashion,",
remarks our historian, "when put to the
proof has revealed the ' proof has revealodian, "when put to the
in hatent hero with-
in Both he and Walker seemed to took for
nothing but a pretext for retreat, and
y be found elsewhere in English and trom the brave Vigorous oppositio Port the brave vetch, commander of fleet turned back, nor does it anpea that Walker and Hill ever reproached themselves for the gigantic flasco. "Had Walker in 'his Journal "Ouebe, wrote would have been reduced to asion small proportion, not exceeding eight or hine weeks at short allowance, so that must have been left to thousand men extremity of cold and hunger." Terrible the cold which his imagination conjured up as possessing Quebec, for he write the bottom would have uiterly freezing to and bilged the ships as much as if they had squeezed between rocks."

In the meantime news of the retrea Was sent to Nicholson who, with a force
of about 2,300 men, Indians included was marching by way of Lake Cham plain to make a simultaneous attack on Montreal. The party had reached Wood Creek, at Lake Champlain when paroxysmenger of ragrived. Nicholson in a threw it on the ground, stamped upo but nought remainuery ! Treachery!' to march back to Albany
Hearing of his retreat, though not the
cause of it, the French treal, which hed been feveries at Mon ing for the onslaught of Nicholson speedily repaired to Quebec which, a yet unaware of the catastrophe which ing, under great excitement the comin ing, under gre
of the fleet. Were the 15th of October two ships and were believed to way up the river squadron. Presently, hower of the was turned to joy, for French color were flying from the mast heads. Wonderful, indeed, was the news which found the wrecks of haven Eney declared, along the shore of the Tale aur Oeuts and had seen " "ifteen or sixteen hundred side dead horses, sheap dand haiel by, be three or four hundred large iron-hoone asks, a barrel. of wine and a barrel and planks, boards, shovels, picks, mattocks of old iron threo feet high." Great was the rejoicing in Quebec, an
great the satisfaction with which th spoils from the scene of disaster wer brought back to the city by vessels sent gorten in the general wubilee. Heaven for ing services were held in the churches every month during a year to be follor ed by the song of Moses after the de
struction of Pharaoh's army in the Red In the meantime the English remnan was proceeding homeward, nor was ill Thames at an end. Apter entering the "Edgar," was blown up by some care lessness in regard to the powder maga-
zine, and five hundred men were lost. So ended one of the most disastrou expeditions) on record. In punishmen Walker was removed from command, an eventually made his way to the
Barbadoes, where he died some years Barbadoes, where he died some years
later. Hill, on the other hand, through the influence of Mrs. Masham with th

MAY 28, 1914
THE FARMER'S ADVOCATE.

## Hope's Quiet Hour.

6. The Art of Appreciation Consider the lilies of the field.-s
Matt. vi: 28 .
That is a direct command. isn't it? a command given to each of us by our
Master. Are we making any attempt to yaster.
obey it
John Kendrick Bangs tells us of a man who knew nothing about science, art or
poetry but whose ears were opened to the music of the birds and the seas, who
found the joy of winter as well as of tound
summer
"And he could joy in arching trees. In heavens blue or starit.
And in the cold, crisp autumn breze And in the cola, crisp autumn breeze

And he could joy in day and night.Heart full of pure thanksgiving am not sure he was
$\mathrm{I}_{\mathrm{m}}$ using life for living
We so soon get used to the lilies of the dently intended by our Father to give us
pleasure.
We get used to them, and fail pleasure. We get used to them, and fail to appreciate them - forget their existence, very often, and remember ony the
things which are unpleasant. So we deliberately spoil our own happiness by our outlook on life, and at the same time do
much to make life harder for other poomuch to make life e. harder for
ple than it need be. God sometimes takes away some of the
everyday blessings, which we have re ceived without considering them at all-
then we learn to value them.
One who then we learn to value them. One who
has been blind for a few months is filled with thankfulness for sight restored; on who has lived alone, in the midst of strangers, is filled with joy when the
homepoople welcome him in their midst homepeople welcome him in their midst
once more-though he may have left home once more-though he may have left home
because he was tired of its common-

"Every day you and all of us pay cool
insults to the clouds, the trees, and the cinin, to pictures and books, to free. rain and nightrall. You turn upon them
the ignominy of your neglect and upon yourself that ignominy returns a thousandiold. With shame, you discover that
the picture on your wall is practically the picture on your wall is practicaly
invisible to you after the, first few months. Just with the tail of your eye
you bush across its surface now and you brush across its surface now and
then. Yet it has done nothing to dethen. Yet it has done nothing to de
serve such treatment.
It has not degenerated. It is you who have degenerated, your color and freshness that
have faded, your mental structure that have faded, your mental structure that
has collapsed. Part of you has been has collapsed. Part of you has ben
killed to divenge the slur you cast upon an artist's child.'
Yesterday was my birthday-an old


 accepted carelessly as a mater-of-course. Terre everyday events, one might grow
 sideringly and unthankfuly as we orten
do our Father's gifts of health and sundo our Father's gitts of health and sun-
shine, of home and friends-and the wild
fowers shine. of home and friends-and the wild
flowers which no human hand has Do you know any person who has cul-
tivated tivated that great accomplishment, the
art of appreciation? Ido. know a art of appreciation? Ido. I know a
sunshiny girl who never, never says an
she is unkind thing about anybody. She is points-and always finds some of them on the spot. They are there, you see.
Everyone we meet has good points as well as faults. If we set out to find hem, we shall get the good of each day
as it comes, and live happy lives. We shall coarn humility by seeing the good-
nous, of other people, and they will-tor very shamer cullivate the virtues we give Ni.w, I am not preaching to you so

is a very bad habit, and I mean to conditions seem far from ideal, to begin you?
How terrible a thing it is to let our
naturally choose to make their home toreligion of love antagonize other loyal What if you find yourself called to live disagree with many Christians over We with someone who seems to you as cruel ters of religious opinion. That seems to Do wolf or overbearing as a lion.
be inevitable, we are not likely to see in despair. Consider the be inevitable, we are not likely to see good points in his character. He is no
spiritual things-any more than physical more entirely bad than you are absolute -exactly as others do. When a woman is making a dress, she "considers" the dresses of all the women she sees, when she owns a brand-new baby (the first
one) she "considers" all the bahies neighborhood. A man will probably pass dresses and babies without con-
sciously seeing them. We can't see exactiously seeing them. We can't see ex-
actly what others do, but we can appre ciate the virtue even of people who differ from us in religion and politics.
Many years ago the rector of St Many years ago the rector of St.
George's Church, Bloomsbury, was accustomed, almost every Sunday morning to
meet the minister of the Baptist Church, meet the minister of the Baptist Church,
which stood on the opposite side of the street. The rector's weekly salutation
was: "The Lord be with you." The was: "The Lord be with you." The
answer
asive," received was. "And with thy


Snapshots in Canada-Modern Indians.
Each of these servants of Christ was on the lookout for lily-like graces in the
on
oul of the other. The lilies did not flourish alone. Probably there were weeds and thistles in plenty-there usually are-but Christ's command is
"Consider the lilies." He has promised to attend to the necessary work of root
ing out the weeds. It is His place, not ing out the weeds.
ours. We are not called to be budges
no of our fellows,-being on trial ourselves
How can we make the home-relations success? It is grandiy worth while, and it is also a thing possible to accomplish. Shall we do it by finding perfect human
beings to make a home with? That might be an impossible feat, and-ip
were successfully performed-the experiment would probably be ruined by our
crankiness. Don't let us wait for heaven -let us bring a little heavenliness into
our earthly behaviour. The prophet our earthly behaviour. The prophet
Isaiah tas promised that the woll shall
lie down with the lamb, the call and the lie down with the lamb, the calf and the young lion and the fatling together, an young lion and thell lead them.
and they blossomed into fairer beauty in
the sunshine of her lovely presence it the sunshine of her lovely presence. It
was one of love's triumphs. Have you Was one of love's triumphs. Have yo
the chance to win such another? If so, don't throw the great opportunity away.
The most beautiful statues were onc The most beautiful statues were once shapeless blocks of marble. The pationt
skill of the sculptor revealed to the skill of the sculptor revealed to the
world beauty which else would have been
lost. We are all expected to be lost. We are all expected to be fellow-
workers with God - Who calls the lile workers with God - Who calls the lilie
out of the dark, unsightly soil. out of the dark, unsightly soil. Why
should we be discouraged if we can see no beauty-yet? Sunshine can bring out unsuspected beauty; so give hearty finding, and give smiles instead of black looks of disapproval.
That reminds me-I have not yet thanked "two well-wishers" for their gift of twich reached me several days ago
is is waiting for somed especially urgent
call, and I gratefully accept it on behalf call, and I gratefuly accept it on behalf
of Christ-in Whose Name it has been of Christ-in Whose Name it has been
-given-and will spend it on one or more of His brethren.
The Master -
The Master-Gardener scatters every-
where His wild-Aowers, or other beautiwhere His wild-lowers, or other beauti-
ful gifts, because He loves us and them. Are we so ungrateful and unappreciative that we do not sie them, but plod on our weary way without even noticing the
glory of the dandelions against the vivid green of the spring grass? He clothes the grass of the field with beauty "So still, dear Lord, in every pla
Thou standest by the toiling folk
With love and pity in Thy face, And givest of Thy help and grace The lives which seem so poor and low The hearts which are so cramped and du The baffed hopes, the impulse slow
Thou takest, touchest all-and 10 ! Thou takest, touchest all-and
DORA FARNCOMB.

## Gifts From Readers.

## A "Reader of the Quiet hour" has sent poor;' and a "Puslinch Friend"' has ateo ent two dollars for the same purpose. Someone has said that a 10 of of good might be done in the world if only peo- ple did not care who got the credit of -my opinion is that a great many of ur "Advocate" readers are of this typp. hey seem determined to keep their len hand ignorant hand is doing. <br> This afternoon 1 spent most of the four dollars on various articles needed by phree familtes, where siokness, as well as givers. Someone said to me to-day: "It is strange that so many people trust their money to you, when they do not know you." It ts strange-but perhaps it would be still more surprising they were personally acquainted with me. However, I have tried to be a falthful steward, feeling responsible to God a steward, feeling responsible to God ane well as to my kind triends of "The Farmer's Advocate." HOPE.

Will the Lights Be White? (By the late Cy Warman, the "rail-
way poet,", who died in Chicago a fow way poet,",
weeks ago.)
oft, when I felt my engine swerve As o er strange rails we fare,
strain my eye around the curve For what awaits us there. When switt and tree she carries mo Through yards unknown at
I look along the line to see That all the lamps are white
The blue light marks the crippled car The green light signals, "Slow,
The red light is a danger light, The white light, "Let her go." Again the open fields we roam,
And, when the night is fair, I look up in the starry dome

The PeelandHaltonCounty Garden Competitions
Mr. James Pearson, barristor, of Tor-
onto, who has for the past three vimmers given prizee to the farmers'
wives and daughters who sicceed in havit wives and daughters who succeed in have-
ing the best gardens in Peel County, wishes us to announce that the competition will be carried. on this year as usual. Cox writes that he has decided
Mort to hold the competition in Halton Oounty this year.
Mr. Pearsoandyers the following prizes or Peel County
(11). $\$ 30.00$ or
(2). $\$ 20.00$
gard.
(2). $\$ 20.000$ or its (3). $\$ 10.0$
(3).

All who enter must be
Will those who purposese taking part in this very intereesting cimpeptition kindly send their applicatione to this magazine as and townoship as well as post office Adaress all applications to "Junia,'
Larmer's Advocate and Home Magazine,
Kindly note that tastefulness in the arrangement of the gardens will be espe

## TheBeaverCircle

Our Senior Beavers.
[For all pupils from Senior Third to
continuation Classes, inclusive.]
said bobite to Jenny
Said little Bobbie Hemingway to little Jenny Rose
that not a something in your ea Copt Mother, a prerson, knows,So, if you'll promise not to bue,
So, if you'll promise
tell it all to you,
I know whers there's a hornet's nest,
And where the guinea lays. And where the guinea lays;
And why the sun goes down the west
"What fun," said little Jenny Rose, A single soul, 'cept Uncle Jack, and
Jane, and Mary Bell,
And Father, 'course, 'and Grandmother
and Nurse, and Cousin Dick;
Now listen while I whisper something
to you very quick;
I know where there's a fairy ring
Away back in the wood,
And what o'clock to see the
If you've been very good.
"Oh, dear, I think that secrets are as
nice as they can be
m glad we've got such splendid ones-
just between you and me."
-Cornelia Channing Ward.

## A Paper House


finished the queen lays her eggs in them. In a few days these eggs hatch into
"larvae." ting, white maggots, and now the queen is a very busy mother in-
deed. for she has to feed these little deed. for she has to feed these little
bebies every day. In three or four
weeks the larvae ane full grown weels the larvae are full grown and are
ready for the next great change which most flies and bettles, as, well as butterflies and moths, undergo, so the
queen caps the cells in which they lie queen caps the cells in whi
Now, a very odd, thing happens to the
larvae. larvae. They become very still, loak-
ing as though they were dead, but in a shiort time a sort of hard case grows about each one. Presently upon the pear, and atter a time this queer thing, this, "pupa" as it is called, becomes
completely changed into a full-grown wasp, which bursts from the cell and
fies aww. All of these first wasps or hornets are "workers," and immediately they begin after layer until at last a dome-shaped house, sometimee as large as a pail,
has beenn completed. cover it alll over with a smooth will of go in and out.


A Paper House
In September the male and female dies. The young, queend as has been al spot during the winter. in some cozy Hornets and other wasps live chiefly
on small insects, but they like sweets on small insects, but they like sweets
too, and may often be seen sucking honey from flowers or the juice of fruut.
By killing insects they are quite usafful in saving crops, as they do not themselves tamper with either grain or vege-
tables. Now, don't you think hornets are very
clever and very interesting ?-But whatever you do, do not try to form too
clase an acquaintance with then. For

Senior Beavers' Letter Bỏx

in wrint. We We arrived home in German
the latter part of October. The Atlanti
intelligence and how energetic they were would have liked vergetic they were to thave
tried myself, but it was impossible. tried myself, but it was impossible.
How many of the Beavers have rolle
skates ? skates? I learnt in Kingston, Ont.
and bought three pairs to take hom with me, one pair each for my two chums who are, Misses Pearl Klopp, and
Eulece
Schweitzer. They are gircce. Schweitzer. They are lovely
Pearl has dark hair and hazel
eyes, and Eulece has golden curl hat ayes, and Eulece has golden curly hair
and bue oyes. She wears glasse They are both twelve years old and in
my class. Pearl is Mr. Klopt
daughter. my class. Pearl is Mr. Klopp'
daughter,
daugh Eulece is a lawyer.
daugher. Well, I will have to close or none of the others Beavers' letter
will be in

## Coleine Eunice Treacy 33 Alvinston St Rerlin Cermaty

 33 Alvinston St., Berlin, Germany,P. S.-Some of the Beavers please Certainly you may join the Garder
Competition, littlo German Beaver. Dear Fuck and Beavers,-I though
sea sick. In my last letter.I. said I
should be delighted if any of the "Beavers" would write to me. Well, I have changed my address. and it is 33
Alvinston Street, Berlin, now. If any Alvinston Street, Berlin, now. If any
of the Beavers write kindly say so in your letter to the Circle. I'm going to school every day. If I wr. IV class. I failed in my music exam six marks, but my teacher allowed me to go on if I would promise to practice an hour every day. Since I came
back I am taking violin lessons and find them comsiderably hard to what piano lessons were.
Several years ago I read a very, in
teresting letter by "Bernice Breeze," should be delighted if she would write another to your Circle. Say, Puck, may I join th. garden competition next
year, although $I^{\prime} m$ not living in Canada? In firet leter I promised to tell you in my next about my home. Well,
is I see this letter in print I will cerif I see this letter in print I will cer-
tainly tell you all about it, If any of the Beavers write to me, I will send them my picture if they will send me
I think the competition that the
girls wrote on the boys shlowed their

Circie. I read the lettere of your ta competition with muct joy, and think you Beavers did beautifully with your Nork in writing them. Roy Pierce cer-
tainly has the girls down to perfection but, dear Roy, most girle are not like what you described them to be in you cribes the girls as very beautifulon de de scribes the girls as very beautiful; don'
you Howard? But you told the truth when you said गgirls had twa tempers for I do believe they have. They are
something like the boys. Say would you allow me to write Say, Puck tion to your Circle? The name of it s "The Course of St. Lawrence River." o you know, dear Beavers, what
hink would be a fine competition the next one? Let the editor give us bout five different titles or subjects to write a composition on, and whoever
writes the best stories should get a prize Don't you thinds It would be nice Well, dear editor and Beavers, I thin will close for this time, hoping I ca
A lover of the Beaver Circle,

$$
\begin{aligned}
& \text { A lover of the Beaver Circle, } \\
& \text { VERNA I. HAMILTON. }
\end{aligned}
$$

arlow, Ont. (Age 13, Bk. IV.) We shall be pleased to have a letter
about the St. Lawrence from you, Verna.

Dear Puck and Beavers,-This is my irst letter, to your Circle. We have long while, and I have been a great
reader, of your letters, which
I reader, of your letters, which I enjoy
very much. I would like the very much. I would like to become
nember of the Beaver Circle. I enjoy working in a garden, and, should like to become a member of your Garden Competition if it is not too late. I go to
school every day and am in the' fifth class. Our school is about $a$ mill away so I go regularly. Our teacher's ame is Miss Sterling; we like her fine
she is giving prizes to the classe The contest closes at Easter. We have a little calf and six little lambs. Hop ing to see my letter in print, and wishyour friend, MYRTLE SKAKEL. R. R. No. 4, Thamesville, Ont. We have added your name to the Gar list,

Dear Puck and Beavers,-As I have seen my other letters - in print I will
take the courage to write again, if Puck tane the courage to write again, if Puck
does not think I have writtem too many I enjov getting the Advocate a very nice paper, and I enjoy reading it and so do my father and brother for there are lots of good things in it liked that competition on "Boys" and "Girls."
How many of the little Beavers like reading? Well, I do anyways. I have reading, too. My favorite books are the Elsie Books. I have read "Elsie's
Girlhood,", "Elsie's Children," "Grand Girlhood," "Elsie's Children," "Grand,
monther
Elisie," "Nettie's mother
"Elsie," " "Nottie's. Mission,",
"Dora Thorne," "Melbourne House," and other library books.
Well, I guess this. enough, and if I write letter is long enough, and if $\begin{aligned} & \text { write any more Puck } \\ & \text { will be likely to throw it into the }\end{aligned}$ monster of a w.-p. b. I will close
now, wishing the Circle every success.
Bye-bye. Charlotte potter.

## Our Junior Beavers

 [For all pupils from the First Book to
## Junior Beavers' Letter Box.

 Dear Puck and Beavers,--This is myfirst letter to the Circle. My father has taken "The Farmer's Advocate" for a number of years; he likes it fine.
We have a dog; his name is Mark. He We have a dog; his name is Mark. He
is cross with strangers. He would bite people if he thought they were going to touch us. I go to schipol every day but stayed at home some days that
were very cold. Our toacher's name is Miss Mullin. We like her fine.

MAY 28, 1914
Dear Puck and Benvers, $=$ We have taken ""The Farmer's Advocate" for
about fitteen years, and like it fine. We live about a mile and a half from Lake Huron. There are thirty-three cottages here. In the summer campers
come from quite a distance. When the come from quite a fow neighbors get up a picnic and go down to the lake. The
children take their bathing suits and go in the water How many of the Beavers like reading
books? I do. We have a library at school, and I have read quite a few.
For pets I have a little white kitty For pets I have a little white kitty
named Suke. I will close now, wishnam the Beavers every succese.
DORA CLEMENS. Ravenswood, Ont. $\underset{\text { (Age } 10, \text { III. Class.) }}{ }$

Dear Puck and Beavers,-1 wrote once
before, but did not see my letter in before, but did not see my letter in
print. My father has taken "The Farm-
er's Advocate" for as long as I can reer's Advocate" for as long as I can re-
member, and we all like it fine. I live
on a farm of one hundred acres. Three on a farm of one hundred acres. Three
years ago we moved our barn nearer
the house, and put it on a cement somation I have a sister, twelve years old, and
one six months old. Their names are Edith and Marion. It is only are minute walk to our school. I go to
school nearly every day. I got a prize school nearly every day. I got a prize
at Christmas time for attendance and conduct. Our teacher's name is Miss
Irving. We all like her fine is Irving. We all like her fine. As my letter is getting quite long I will elose,
toping this will p. b.

Cookstown, ont DELL ROBINSON. Ont., R. R. No. 1.
(Age 11, Jr. III. Class.)

Dear Puck and Beavers, - My father has taken
a short time. I enjor reading the let-
ters of the Club, ters of the Club, so I decided I would write. I live on a farm in Muskoka,
and only go to school im summer. Our
school is closed during the winter, for school is closed during the winter, for
the snow kets too deep for us to go. I am in the senior third at school, and a gray kitten and call him Tabby, and dog which I call Rover. We have great fun together. I will now
with best regards to the Club.
Millar Hill, Ont.
P. S.-Will, Some of the Beavers near
my age please write?
Dear Puck and Beavers,-My teacher's
name is Miss Edgar. I go to scliool
every day, and I am head of my class nearly anl the time. The school 1 go to has fourteen rooms in it, I would
like to join the Garden Competition, but like to join the Garden Competition, but
the worst of it is I live in the prospering town of Preston and we have no
garden at the back of our house. I like garden at the back of our house. I like
farm life better than town life, and if farm life better than town life, and if
I lived on a farm I would have a
garden and write about it. My father garden and write about it. My father
keeps hens. We have four different kinds. Altogether we have about 25
heng. In February we got 107 eggs. hens. In February we got 107 eggs.
I think that is pretty good for a win-
ter month ter month. I will close, as I have written too much now. Hoping to see
this letter in print.
Every success to this letter in print. Every success to
the Circle. Lillian holtzinader. Preston, Ont. Age 11, Jr. III. Class.) bers of the, Circle to write to me.

Dear Puck and Beavers,-This is my first letter to your Circle. I enjoy
writing to you. I am nine years old writing to you. I am nine years old
and like going to school. I live on a
farm and my father takes "The FarmParm, and my "father takes "The Farm-
er's Advocate." We have two cats and one dog; his name is Grit.
Our home is built on a hill; we have a good time slieighriding and skating awn the hill. My grandma is visiting with us. Bye-bye. $\quad$ OLIVE McEWEN. Wingham, P. O., R. R. No.
"Doos your daughor play the piano by
ear ?" "No." replied the father, "she ear "No." replied the father, "she " Na .
uses both hands and both feet. But
don't think she has learned to use her don't

THE FARMER'S ADVOCATE

## Fashion Dept. How to order patterns.

 Order by number, giving age or meas-urement as reauired, and allowing at least ten days to receive pattern. and also
state state ith which issue patatern appeared.
Price ten cents PER PATTERN. If two numbers appear for the one suit, one for
coat, the other for skirt, coat, the other for skirt, twenty cents
must be sent. Address Fashion Department, "The Farmer's Advocate and tome Magazine." London, Ont. Be sure torng. Many forget to do this.
terg Address : Pattern Dept., "'The Farmer's
Advocate and Home Magazine," London Advocate and Home Magazine," London
Ontario. When ordering, please use this form Send the following pattern to:
Name ...
Post Offce
County.......
County.....
Province
Number
 Age (if child or mi Measurement-Waist, ......... Buist, ........


8108 Peg Top Skirt for Misses and
Small Women, 16 and 18 years.


7867 Girl's Balkan Dress
6 to 12 years.


desicn by May Mantor.
Coat, Small 34 or 36,


1050
1HE FARMER'S ADVOCAIIE.


Si by may Mantono
7486 Princesse Slip for Mlissss ant (1)


$$
\begin{aligned}
& \text { 8218 Semi-Princesse Gown, } \\
& 34 \text { to } 4^{2} \text { bust. }
\end{aligned}
$$






Ton Can Equal the Resulis of Protessional Dyers

| Color-really attractive color-lif t s |
| :--- |
| lot | clothes out of the ordinary. Without

charm of color clothes cannot have real
Style Why not give your last season's clothes fascinatin
DYES.

"A child can use them"
Simply dissolve the dye and boil the material in the colored water Miss Virginia King write "I send you my picture. The gown I am wearrsirt. I I dyed the material purple
and draped the overskirt.
and "DIAMOND DYES have always given me splendid
resulis and $I$ recommend them strongly. "It seems too
good to be true that
I can get results that good to be true that
I can get results that
equal those of phoequall those of ?pro
fessional dyers.

## Truth

About
Dyes for
There are tw
classes of fabricsclasses of fabricsrics and vegetable
fibre fabric fibre fabric.
Wool and Silk are anomal fibre fibric Cotton and Linen are vegetable fibre
fabrics. "Union" fabrics. "Union"
or "Mixed" goods
are usually $60 \%$, to $80 \%$ Cotton,
must be treatcd megetable fibre
vibrics. 1 fibrics.
It is a chemical impossibility to get
perfect color results on all classecs of with any dye that claims to color animal
fibre fabrics and vegtable fibre fabric: equally well in one bath
We manufacture two classes of Dia
mond Dyes, namely - Diamond 1) yes ion mond Dyes, namely - Diamond
Wool or Sik to color Animal Fibrel lal Mixed Goods to color Vegctable Fabrics, so that you may obtain
Best results on EVERY fabric. Diamond Dyes Sellat 10c. Per Package Valuable Book and Samples Free
 THE WELLS \& RIChardSon CO LIMITE,
200 Mountain Sureet, Montrei, Canad
site quelities of grestness better exempli-
fied than in that modern perpetrator of ced than in that modern perpetrator, of
paradox, G. K. Chesterton. For, infinite as are his capacities for taking
pains in the literary sense, his wife, to pains in the literary, sense, his wife, to
e very large extent,' acts as his 'business conscience," and it is said that she accompanies him on almost every jour-
ney, performing such small but necessary ney, perlorming such small but necessary
duties as the getting of tickets and the consulting of "Bradshaw.
occasion visitors however, that on one terton being called upon to play the part of hostess, was unable to accom-
pany her husband. With the words pany her husband. with the words, to lecture and what your subject is
Chesterton went to the railway statio Arriving there, he banged down. sovereign at the booking office, and said,
"A ticket."

$$
\begin{gathered}
\text { "Wh } \\
\text { clerk. }
\end{gathered}
$$

$$
\begin{aligned}
& \text { "Free Trade Hall," replied Chesterton } \\
& \text { "Ooh, Glasgow then ?" said the clerk }
\end{aligned}
$$ Oh, Glasgow then ?" said the clerk and Gilbert, assenting, received a ticke Stepping into the street at Glasgow he was hailed by a friend: "Huln,

Chesterton, what are you doing here? $\therefore$ Oh, I'm lecturing at the Free Trade Hall."
"Oh, no, you're not," said the friend. "'Oh, yes, I am," protested Chesterton.
"I booked the engagement some months ago." "Briend, "for the place is being renovated and the painters are in. he was at the wrong place, and he, fur-
ther to justify his claim to greatness ther a justify his claim to greatness
sent a telegram to his wife: "Am here,
Where ought I to be ", Where ought I to be? joke more than Chesterton, and, even
when the joke tells against himself, he never fails to be heard laughing above
the whole company. It is relet a certain man told of an act of polite-
ness he had witnessed. man give up his seat in a tram-car to the company. "What about old Chesterhis seat to three ladies." The company roared, but louder than the others was
heard the jovial laughter of Chesterton. It is in more respects than one th
Chesterton lays claims to "greatness."
C. P.'s Weekly

News of the Week
 sitting in conference on the Mexican situation at Niagara Falls during the

Extensive *ush * * * * hires have been raging in Muskoka, and in the districts adjoin-
ing Cobalt and Charlton. The Welsh disestablishment bill passed
its third reading in the House of Commons on May 19 h. by a vote of 328 to
mote
251. In a subsequent debater on the
home rule bill on May 22 nd, the House was suspended, and the dcbate held over
until May 25th. A force of marines * *rom the interna-
tional fleet landed at Durnzzo tional fleet landed at Durazzo on May
19th for the protection of William of
Wied, King of Albania, who accepted the
rile
 military camp during the latter part of
June.


of The World's Best Merchandise



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Wouldn't it be worth your while to buy H.P. Sauce?

 to givo aue whether an thing gets
done or not but


 too dovil much of a hurry tho finish int
 ${ }^{\text {and }}$
could pos no then time ot the yyar
was te more opportume then this








 taxee or tho time is our pronenea
to exalt the minor, at the expene




 gevees arbitrary rulese-tho housceleaning
and this and that and the other thing and
must be completed by a certain time, -
and so we "set to" with an and so we "sot to" with an energy that
is almost furious. We tire ourselves out; we become irritable and make
everyone about us irritable also ; we
eve ever our eyes glued to the mop and
keer
serubbing pail and whitewear work on scrubbing pail and
the sewing-machine, and then before we are aware of it the tulips have merged into iliacs, and lilacs into June roses,
and June roses have scattered themand June roses have scattered them-
selves on the breeze, and the sweetest selves of the year has passed. We have
time
had none of it.
The trouble is that we are so con-
stantly obsessed at such times with the idea that we must push the wortd. We
forget that the world will still turn,
even though housecleaning be a week late and the whitewear a few days over-
time. It's the old mistakke of magnity-
ing the minor things until they quite
ing obscure the major, of fastening the
vision only to the material.,
Come to think of it,-isn't it better, Come to think of it,-isn't it better,
instead of fixing the whole attention feverishly on the completion of any
fiece of wark, just to amble along by
pitas. not hurrying comparatively easy stages, not hurrying
to desperation, not worrying, interested
in things ds we go ? Isn't it more important that a woman keep sweet and
serene and not over-tired, ven though
something have to stand over once in something have that she accomplish the
a while, than that
work within the given time too tired Wo smile, ready, perhaps, to cry for very
weariness?
-What if someone should come and
"-ath" one in the midst of a little "catch" one in the midst of a littl
upset Sensible folk do not mind, and
what odds about the others? I have what odd faultless friend, in the midst of seen my land drop everything for an
housecleaning,

Stops Lugeing Pulling

Bolting
 You can control your horse easier than
ever before, and stop ste the runawav, with
Flynn's Little Giant Controller
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Societies the world over. Societies the world over.
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for anti-ruat metal. Price $\$ 2.50$ for nil
for anti-rus metal.
wot entirel satisied fire
will be returned auicl. Send for one to-day, If not entirelys astisfied, fife.
it back and your money, will be returned quick.
W. F. Frampton, ${ }^{32} \underset{\text { wront }}{\substack{\text { wot }}}$ Toronto, Ont.
afternoon to entertain visitors from a
distance, and set them down cheerfully distance, and set them down cheerfull,
to a supper of bread and butter and
fruilit and boiled fruit and boiled eggs. I have seen an
other little woman-a very dear litt
wom woman too-flush pink with annoyance
when so surprised, close her visitors up
in the drawing-room

## DOMINION

 EXHIBITIONVICTORIA, B.C. busily preparing a very fine "tea."
would be superfucuus to say
proved to be the better hostess.
There's no use of inveighing against
work-even manual-as an evil. only
the mismanagement of it is. Work is

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After you've bought a piano is the wrong time for finding out that you might have got as good or beter for one hundred dolaras less,
 the best instrument made and save you s.ion, should you not, in all
 best and that you can buy it at a saving of sion, we know that you will
buy _it in in_ preference_toanyonother, being convincod that it is indeed
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##    CIIT OUT THIS COUPON DOVERCOURT LAND BANMDING ERSAVINGS Dear Sirs 1 am interested in the purchase of <br> a Farm of about stock Fruit, purpose of raising Grain Markek Gardening <br> Location Preferred <br> NAME ADDRESS FILL IN \& MALLTO    FARM AID FEDUL LAMDS DEPARTMENT

feel that there is more sacredness about
the event if the ceremony takes the event if the ceremony takes place
in church. Personally, I think the in church. Personally, 1 think the
church is the right place, providing that everything is not spoiled by an effort
to be "fashionable." There is no to be "Pashionable." There is no
sacredness whatever about a showy sacredness whatever about a showy
parade, and a crowded church with people standing on the seats to get a view. White is, of course, the color for a
young bride, the matarial depending on young bride, the material depending on
what shs can afford. The lines of the dress should be simple and graceful,
with no hint of over-dressing. A long veil is always a pretty adjunct. The
bridesmaids should wear gown of some pridesmaids should wear gown of som
pretty light shade in the same or harmonizing colors. Invariably they wear

When the bride changes her dress after the wedding breakfast she must, of
course, don her "going-away" dress, course, don her "going-away dress
usually a suit with a pretty waist. The order for a wedding either church or at home is as follows First enter the groom and best man
who wait near the chancel steps, in the home, the spot where the cere mony is to take place. To the strains of the wedding march the bridal party enters, the ushers, walking two and two
first, then the bridesmaids, also two and two, then the maid of honor, walk-
ing alone, and finally the bride on the ing alone, and finally the bride on the
arm of her father or whomever is to arm of her father or whomever is to
give her away. Arriving at the steps the
ushers step to the right, the bridesmaid ashers step to the right, the bridesinaids
to the left, forming a semicircle, at the centre of which meet the bride and
groom. As the bride meets the groom,
who takes her hand her father groom. As the bride meets the groom,
who takes her hand, her father steps be hind her or the maid of honor to a
the moment for giving her away. All this ceremony is not, however
necessary. At some very pretty wedd ings the maid of honory and the best man, are the only "extras."
A wedding may take place at any
time that best suits the convenience of all concerned. Here is a menu for a wedding break-
fast as given by an authority: Consomme in Cups.
Salted Nuts. Oyster Patties. Olives, Tongue in Aspic Jelly. Olives
Lobster Salad.
Chicken Sahad Lobster
Salad. Chicken Sallad.
Nut
Sandwichee. Candied Fruit. $\begin{gathered}\text { Fonbons. } \\ \text { Fancy } \\ \text { Orange-Creams. } \\ \text { Ice. } \\ \text { Lemon }\end{gathered}$ Ice. Chocolate. Fruit Cake. Coffee.

## We "Ladies' Aid."

We are having a "Ladies' Aid" for the
church here, and would like if yot would
then church here, and would like if yof would
kindly publish in your valuable paper
something that would something that would give us ideas
to make it mors interesting. rosebud. Have you tried a bazaar? That seems
to be the favorite form of Ladies' Aid to be the favorite form of Ladies' Aid
entertainment here in the city. Articles
of every kind are made by the ladies of every kind are made by the ladies
and sold at booths. A tea-room is arranged near by, and if an orchestra, can
be in attendance all the better. of
be arse the co in attendance all the better. Or
course, the rooms should be decorated
as prettily as possible. For this noth-
ing can be ber ing can be better than artificial apple
blossoms made as followsi. Get numbers
of bare branches-those pruned from of bare branches-those pruned from
apple trees are god-and fasten to
them with expressman's sealing wax;
pink and white "apple blossoms" made of double circles of tissue-paper twisted
together at the center to form frilly
bioshons bogether at the center to form frilly
blossons. When such branches are use
lavishly the effect is very beautiful.

## Seasonable Cookery.

 cup milk. 1 unbeaten eqge, 1 cup flour,and a pinch of salt. Beat all tofoter
$\qquad$ and bake in a moderate oven for half

Baked sliced Ham.-Tlace in a baking-
pan it slice of ham cut ome inch thick
pan "s slice of haun cut one inch thick
if the ham is not very "mild cured" it


As a body builder and Milk ProFAT" for your cows. "PRRO-FAT" is a wholesome, nutritious feed. It increases the milk flow and ensures
the quality. Every milking counts in real profit
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the big users, together with our book-

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## SEEDS

Seed Corn $\begin{gathered}\text { On the cob. } \\ \text { Per bus. } \\ \text { of bolled. } \\ \text { Bags. } \\ \text { Bags free bus. } \\ \text { of br bibs. } \\ \text { Bags free }\end{gathered}$ $\begin{array}{ll}\text { Early Imp' } \mathrm{Id} \text { Leaming. } \$ 1.60 & \$ 1.50 \\ \text { Early White Cap Y.D. } & 1.60 \\ 1.50\end{array}$ Early White Cap Y.D. 1.60 Compton's Early. L.ongfellow ...
North Dakota North Dakot
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Millets
Hungarian
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Common
Siberian
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We repair and supply parts for any seving $\begin{aligned} & \text { and } \\ & \text { machine, } \\ & \text { gramophone or }\end{aligned}$
J. JACKSON \& COO,, London, Canada
may 28,1914
hour. Sprinkle on top a, 1 little powder-
ed mustard, brown sugar, and ed mustard, brown sugar, and 2 table
apoons vinegar. Add a little boons vinegar. Add lite wate water, 40 minutes, basting often. Add a little' boiling water to the gravy but da not thicken.
Rhubarb Short-Cake.-Malp a short cake by any preferred recipe, either lilh ( a layer-cake or like a rich biscuit and spread with a silling made as follaws: Cook togother fows minutes cupp thick, stowed rhubarb, and 1 cup
mixed stoned dates and ralisins, chopped fine. Put the alling in hot, put the cake together, serve at once with whipped cream or with thick, sweet crean and sugar
Apricot Gelatine.-Moisten 2
spoons gelatine with add 1$\}$ cupe hot milk, brought to the scalding point in a double boiler. Soak
12 halves of dried anricots 12 haves or dired apricots over night ting boil for 5 minutes in the same water, with $\#$ cup suyar. Peel the aprricots, mash, add 2 tablespoons lemon
fuice and mix with the mikn juice and mix with the milk and the
gelatine. Put
all
in
a mould to

 of cream, whipped stifif, to which has
been added 2 tablespoons powdered
 Meat Loal with Hard Cooked Eggs. Chop one pound each of raw veal and
beef with onefourth pound bet with onefourth pound of salt pork
Add onohalf toenoponful Aad marjoram, or one tablespentum poultry seasoning and one-hanff tenspoon-
ful of onion julce, one tablespoontul chopped parsley, and salt and pepper to
thate. bread crumbs and two well-beaten eqgeg Buttor a mold and fill hall-full with the two wholo hardt-cooked egrea leng thwise with the rest of the mixture. Phen tabiespoonful of malted butter or beet bortening on top and bake in a slow oven one and one-hall hours
Breast
Take three or four pounds muts.breast, soason well, and cover each strip with bread or cracker crumbs. Put into a hot dripping pan in the hot oven, brown pour over it onehall can ge tomatoes to which have bsen added one onion and one green pepper finely choppodi; return to rovan and cook slowly un
tid ready to

The Scrap Bag
TO Whip cream.
To whip cream easily wrap the bottle of cream in a wet cloth sprinkled with salt and place on ice or in a cold plac
until ready to whip. USE OF OLD WHISK BROOM. Trim down an old whisk broom to a
point and point and use for sweoping the corners
of rooms, stairs, etc., difficult to reach with an ordinary broom.
leaves of rubber-plant. To keep the laves of a rubber-plant
green and glossy, sponge them once weak with a cloth wot in sweet milk intead of soap and water.
One knitted "darn"" One who has tried it says that a soo way to darn childrens' stockings
at the knee is to take yarn to match and two knitting takeolles, and so knat a patch, which is artorwards sewn on chilblain cure.
 ate of ammonia, ounce. Mix to-
gether and apply to the affected part
with vith a small camel's hair brush.

## hasmock comfort.

 mer, hang your hammock under the or piecer of canvas, strecthed out flat,
three. or four toet above it. Sew on
the ...unnor tor
 screen, flies and pins. Safe behind

## How Goodyear Fights Loose Treads

After we ended rim-cutting we took up loose treads-another major tire trouble. At the base of the tread in every tire there must be a brëaker strip. In all tires save Goodyears this strip is made of closely-woven fabric. And road use often separates this breaker strip from the rubber. $\qquad$
We bought the rights to a patent fabric which we picture here. It cost $\$ 50,000$, and it smooth-running anti-skid forms our breaker strip.


Rivet Fabric
air bags, under actual road conditions This saves the countless blow-outs due to wrinkled fabric. This extra process adds immensely to our manufacturing cost. And no other maker employs it.
In these tires alone is rim-cutting ended in a satisfactory way. We control the method.
And these tires alone have our double-thick Il-Weather tread-a

18 Makes Cost More
No-Rim-Cut tires are the only tires emrubber rivets are formed.
This lessens by 60 per cent the risk of tread separation. And no other maker employs it.
Millions Saved
That is one way in which we save tire users millions of dollars yearly.
Another is our "On Air"cure. No-Rim-Cut tires are final-cured on


No-Rim-Cut Tires
With.All-Weather TreadsorSmooth bodying these costly features.
After years of tests on countless cars they have come to outsell any other tire in the world.
Yet there are 18 U. S. and Canada makes of tires which sell at higher prices. Some early one-half higher. Three such tires cost as much as four Goodyears. That's a curious situation

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Read the following testimonial The One-Horse Spring Tooth Cultivator
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Ye Old Millers' Household Book FREE to Buyers of Three Bags of Flour
This useful book containts 1,000 carefully-selected reci-
pes and a large medical department. Miss F. E, Martin, of
Forestville, writes Forestville, writes: "Thank you for the recipe
book.., "t is a prize worth
while," If yout. already have the former
edition (Dominion Cook Book) you


 must be flour:
Books by R
Books by Rack
Black Rocl
Sky Pilot
Sky Pilot
Slan Glengarry
Glengarry School Days
Tlengaryy Scho
The Prospector
The Foreigner
Books by Maligner Man Keite:
Duncan Polite Treasane Volley
TLisbeth of the Dale


The farmers of Ontario are finding it very profitable to buy flour and feed direct from The Campbell Flour Mills Co. Many are sending letters of appreciation of

## Cream is West Flour <br> the hard wheat flour guaranteed for bread

Ancil Locke, Secretary of the Matilda Farmers' Club, Dixon's Corners, Ont., writes:

The flour and feed we have been handling from you have given satisfaction to all. We have had
orders for more flour and feed."

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## Cream of the West Flour (for bread) Queen Gity Four (blended for all pu Oueen City Four (blended for all purposes) Monarch Flour (makes delicious pastry). <br> Per 98-1b. bas CEREALS

Cream of the West Wheatlets (per 6-1lb. bag)
Norwegian Rolled Oats (per $90-1 \mathrm{~b}$, bag) Norwedian Rolled (ats (per 90-lb.
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"Buillrush", Bran.
"Bullrush" Middlings
"Tower" Feed Flour.
Whole" Feed Flour.
"Bullirush" Crushed Oats
Manitoba Feed Barley
Barley Meal.
Chopped Oat
Feed Wheat.
if you purchase five or ten tons. The only reduction from the above prices would be on carload orders.
TERMS CASH WITH ORDER: Orders may be assorted as desired. On shipments up to five bags, buyer pays freight charges. On shipments over five bags we will prepay freight to any station in Ontario, east of Sudbury and
south of North Bay. West of Sudbury and New Ontario, add 15c. per
bag. Prices are subject to market
The Campbell Flour Mills Co., Limited (West) Toronto

Canada


Indian Runner Ducks



## The New Public

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Conducted by the Institute of Public Health.-The Public Health Faculty
of Western University, London, \& Western University, London,
Established and maintained by the $\mathrm{O}_{\mathrm{n}}$ tario Provincial Government
[Questions should be addressed: "Nev,
Public Hoalth, care of . The Farmer' Public Health, care of "The Farmer'
Advocate, London, Ont." Private ques tions, accompanied by a stamped, selfaddressed envelope, will receive private
answers. Medical treatment or diagnois answers. Medical treatment or diagnosi
for individual cases cannot be prescribed.]

Methods of Getting Rid of Flies.
dary, as pubilished by the Indiana State Board of Health, is rather of interest.
journal of a female house

1. Thursday, Nov. 2, 1911.-Went into winter quarters. Barely lived through the long, hard winter 2. April 20, 1912.-Came out of winter quarters and laid my first batch of egge- 120 in number-in a manure heap. 3. April 21, 1912.-My first 120 eggs have hatched.
-. Apre have un dergane first molt
2. April 23, 1912.-Larvae have undergone second molt.
3. April 26, 1912.-Larvae transformed into pupae.

May 1, 1912.-One hundred and wenty full-grown fies, sixty of which are females.
8. May 3, 1912.-Laid my second batch-120 eggs-this time in the filth of an uncared-for privy
9. May 13, 1912.-One hundred an
twenty flies came from my second batc| twenty flies came from my secand batch kind neighbor's garbage can.
10. May 20, 1912.-The boy at the
house where I live is killing fliee right house where I live is killing flies righ
and left. And to think-we have a been eating at the same table with
him!
11. May 21, 1912 11. May 21, 1912 . Laid my fourth
batch of egg. $\quad$ Left alone and unhin-
dered; by Sept. 10,1912, my do
scendants will number $5,598,720,000$,
scendants will number $5,598,720,000$,
000 . METHODS OF COMBATTING FLIES.
Knowing how and whore flies breed,
their life history habits and the Knowing how and whore and then
their life history, habits; and
studying how your individual flies have settle themselves on you, the logical, scienti-
fic method is to upset their regula fic method is to upset their regular
serquence of life in. some definite way
Thus, find Thus, find and destroy or make useless
their breeding places; find and destroy their breeding places; find and destro,
the eggs, larvae (maggots) or pupae
trap and destroy the adult fly, preven trap and destroy the adult fly; prevent
the adult from getting food; exclude them from breeding places, etc. Many
ingenious and simple plans have been ingenious and simple plans have bee
worked out. destroying breeding places. Flies seem to breed in pretty much
any damp, smelly place; yet it is true
that in hot dry weather they are most any damp, smelly place; yet it is true
that in hot, dry weather they are most
abundant, they prefer horse manure to abundiant; they prefer horse manure to
all else apparently, and swarm about Stables for this reason. nne of the fa
vorite places is under the boards of the horse-stall floor; because of the deposita,
which wash down through cracks or be Which wash down
tween the boards
Cow manure will do if horse manure is not to be had; garbage is next,
refuse meat and other decomposing
organic matter. In some communities refuse meat and other decomposing
organic matter. In some communities
such material must by law be stored in bins, with fly-proof screen doors or lit
At one stage the young fly needs At one stage the young fly needs to
burrow into the groundi, and to pro
vent this and so kill them, anything


Ploase mention "'The Farmer's Advocate."

| which makes the ground impenetrable is |
| :--- |
| useful. This applies especially | useful. This applies especially to

ground under manuer, garbage, etc.
If the maggots are If the maggots are, found, taking them
out and burning them is the best. methlod, but insecticices may be used as
in the case of other innects flies may be killed by fumigation or or
smoke of veris. Adult
singer smoke of various kinde. Amigation or
fire destroying two vill forest fire destroying two villages utter a forest, flies
in my own experience, were tol
in my in my own experience, were totally
banished-for a week or two
ing ing down the wheole or tremises might burn-
tried, if no other tried, if no other method succeeds !
This sounds like a very radical measure;
but the fact is thet This sounds like a very radical measure;
but the fact is that getting rid of fies
is by no means a task that It requires an immanese amount of great study and persistence in following and finding the breeding and also the feed-
ing places
practical reduction.
While the campaign to abolish flies is
proceeding, and remembering it take several seasons to do it, fly reduction, enough for comfort, oan be achiesed by carreful screening of win-
dows, combined with use of fly paper or fly traps inside the house, and making everyone in the house remember to slip in and out through the screen doors
only when the files are not looking! On chilly days they make for the house more particularly, led by the warmth and the food smells; the kitchen and
dining-room chiefly dining-room ense ancract them of
course. Screens are particularly needed when stables and barns are near the house.
Quas.-1t pork is wall cooked is it possible for anyone to fall a victim to
trichinosis? Do you consider the Jewe a particularly healthy race?
CLOVER.
Ans.-(a) Trichinae in pork are killed
by thorough cooking; but when eaten raw, as in summer sausage, or when but partially smoked, without real !cook ing at all, as in tho preparation of
some ham, they may survive and infect. (b) The Jews are often thought to be
very exceptionally healthy; but there very exceptionally healthy; but there
seems to be very little real evidence that they escape any more than any
other race, living under the same conditions. There is one marked exception; Jew babies do not die off at the rate
of Gentile babies, even in the worst slums. That is because a Jew mother always nurses her baby, and never goes
out working, leaving the baby at home out working, leaving the baby at home,
Gentile mothers often refues to nurse Gentile mothers often refuse a norse
leaving that to the cows; and they keep on at work when they ought to be a home taking care of their children.
H. W. HILI

The Ivory Snuff Box.
By Arnold Fredericks.
(Copyrighted.)
Chapter XVIII.
'THE ROSAHy.
The dull, heavy sleep into which Richard Duvall had fallen after Dr. Hartmann had left him was suddenly dis turbed by the realization that some one had seized him roughly by the arms. He attempted to rise, struggling in
stinctively against the two men whom he dimly saw bending over him. But his resistance was useless. In moment the leather straps which encircled his wrists and ankles had been drawn tight, and he felt himself being
lifted bodily and deposited on the floo lifted bodily and deposited on the fioor
in the center of the room. At first he
cried out, cursing his captors loudly, cried out, cursing his captors loudly,
but a moment's reflection showed him how profitless his remonstrances were,
and he allowed himself to be bound to the floor in silence. In a moment Dr
Hartmann had switched on the violet light, and he once more
radiance upon his face.
radiance upon his face.
Hartmann opened the doo
Hartmann opened the again in a fcew
"I shall be back age
ne hours,
hope that by that time you will have
 definitely made up his mind purchass his
point, he was not going to purse
freedom at the expense of his duty. He freedom at thell that the unfortunate sit-
knew very well
uation in which he now found himself

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singly without disturbing the other doors tracks, open

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 accede to Dr. Hartmann's demands. He
hoped that friends outside-Lablancho hoped that friends outside-Lablancho-
Dufrenne Dufrenne- oven Grace, might is he could
come to his assistance. If he come tnow that the snuift-box was safely
nnly in M. Lefevre's hands, the rest did not matter much.
These thoughts passed through his
mind as he lay with closed eyes, his mind as he lay with closed eyes, his
face quivering under the dazzling light which fell upon it." Its intensity was, he thought, greater if anything than it
hat been tefore, and the irritating effect
had had betn before, and an mare pronounced.
upon his ejes was more upo did not open his eyes at all, on this
Heccaid
oce occasion, for foear that even a mo-
mentery exposure would increase their mentary exposure
sensitiveness.
Slowly the day passed. He concluded that it was afternoon when he heara,
far off, \& bell striking the hour of two far or, a bell striking the hour of two,
although it might equally have been two o'clock in the morning, for all he could
tell. There was a faint hum of convertell. There was laboratory above him, sowever, which convinced him that it was still day
Presently his bar, acutely sensitive to
the slightest noise which disturbed the stillness about him, became aware of a faint sound of music, which seemed to
come to him trom ansiderable discome to him from a considerable dis-
tance. It was a popular French march, and from a certain quality of the notes he concluded that it was being played upon a phonograph.
The strains of the music distracted about him, and as he listened it seemed that the effort of keeping his eyes tightly closed grew sensibly less-that the
blinding light cone upon his face became blinding light cone upon his face became
approciably easier to bear. apprsciably easier to bear.
He knew that this was
mentary reliet, but he welcomed it eagerty. To lie in this terrifying silence, un-
der the cruen tlare of light had the
 come hisgntes and his mind could long
all, his narves stand this strain.
The music suddenly stopped. He found himself eagerly hoping that there would
be more. In a few moments it began
 again, and be was "Tsteng "Mo
tamiliar straine of "The Rosary." He had always liked the son
had been fond of it.
He wondered if she could be playing to him, trying to soothe his fast shat-
tering nerves with music. It pleased him to think that it might be so, although he had no reason to suppose
that Grace knew of the torture to which that Grace knew iof the torture to whic
Dr. Hartmann was subjecting him. After a time the final strains of "The Rosary" died away, to be followed by a German march, played by some military
band. This, too, he was glad to hear band. This, too, he was glad to hear,
although he found himself thinking that he preferred "The Rosary." As if in answer to his thoughts, it be-
gan lagain, and he found himself repeating the words to himself mechanically,
and thinking of Grace and thinking of Grace.
The music continued for more than an
hour. Duvall noted 'with surprise that while there were many other selections, "The Rosary" was played almost every
other time. So often, in fact, did its
strains strains break the stillness that he be-
came annoyed-in his nervous state this constant repetition of the song worried
him. $\underset{\text { After }}{\text { him. }}$ $\qquad$ be the last. No one but an imbecile,
he muttered to himself. could enjoy he muttered to himself, could enjoy
playing a piece over and over in that
paing When at last the impromptu concert
had ceased, and the silence about him was once more unbroken, he found himself puzzling in vain over the matter,
as though it had become of vast im-
$\qquad$ mann had been in earnest when he told
him of the qualities of the violet rays. Could they in any way affect his mind?
The mere thought stimulated his imready he was convinced that his senses were wandering, that his mind was be
coming sluggish and dull. As hour after hour passed, this
thought became almost a certainty. His
head began to ache terribly, his eyes
 Windsot Cheses Salt bringoss best Ptices $=\begin{gathered}\substack{\text { One cup } \\ \text { Flour } \\ \text { Four Egy } \\ \text { One E Cup } \\ \text { Onile } \\ \text { Milk }}\end{gathered}$
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| :---: |
|  |  |





MAY 28,1914
Bright flashes of light darted through hie brain
The pain which the constant effort to turn his head caused was becoming more
cute as each minute passed. He felt constantly on the point of screaming
out in terror, begging for release, agree-
3 out in terror, begging for release, agreeing to do anything they asked of him. he would calm himself, and closing his eyes tightly once m.
dure until the end.
Atter an ińterminable period the sounds of the music once more fell upon his troubled brain. This time the Three times in rapid succession clear. Rosary" was played, them sudden silence. He waited in vain for more dreading the recurrence of the song, yet expectny oft-repeeated sound. There othing further, however, and once more the silence became like the darkness Hours Hours later, when his brain reeled endtured eyes seemed bursting from their sockets, the cone of violet light vanished as though some silent hand had brushed He awoke again to find himself lying on the floor, with Hartmann bending
over him feeling his over him realing his pulse. In a fit of
rage he struck out with his clenched hand, and missing, scrambled to his feet. The room was faintly lit by the and Dr. Hartmann confronting him, the Once more he revolver in his hand sistance, and sank against a packingbox, his hand covering his burning eyes.
The latter appeared In his former state of tardonic no longer ${ }^{\text {ture. }}$ "Are you ready to tell us what yo Are you ready to tell us what you Duvall made no reply, and this
angered the doctor still further. "I'll angered the doctor still further. "I I 'll
give you an hour to think the matter give you an hour to think " "And if you
over," he said furiously. "An don't come to terms by that time you
shall stay under the influence of the light until you do." He turned toward light until you do." He turned toward
the door, followed by Mayer, and in a moment they had left the rolom. Duvall, in his pain and distrese,
realized that something would have to realized that something would have to
be done at once, within the next hour in fact, or he would be obliged to give up. Physical torture he could stand, radiance, and realize that his brain his senses, were slowly giving way, he felt he could not endure.
Yet what was there that he could do?
The walls of the room were of solid brick, and he could not hope to penedozen men. The door was of iron, a He forced could not shoulder against through it. laughed bitterly as he realized that with all his strength he could not even cause
it to give the fraction of determined to get the snuffitoox- He amine it-reckless of his fear of being the opera-hat from the he had snatched the lining, and held the box in his hand.
he paus He paused for a moment, listening in-
tently. Everything about him was still tently. Every thing about him was stin
There were no sounds from the laboratory above. He remembered now that
he had not heard
Hartmann and his he had not heard Hartmann and his companion ascend they had returned to the main building by means of the lower corridor.
In a moment the had hung the torn prevent any one from observing him through the keyhole, and going directly electric the bracket which held the electric globe, proceeded to examine the
box carefully The first thought that came to his
mind filled him with a strange feeling of hope. He had no more than glanced
at the top of the box than he saw at the top of the box than he saw
which he had previously failed to
observe, that the circle of pearls upon which he had previousty pearls upon
obsere, that the circle of pop formed a rosary, which was
its top formen completed by the ivory cross in the
center. "The Rosary?" Why had this song
been so persistently and continuously been so persistently and continuousty
played? Was it for him, some mes
aage, indeed, intended to show him a sage, indeed, intended to show him a
way wit of his difficulties? Yet if so,
to wlat did it lead? There was a

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at what ost

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With roprcased oagerness he hild tho
 once he noticod the arrangenent of the
conentric circlo of
oetturs which mado up the Latin prayer. Tho worda were so writen that mach
letter Stood opposite a pearl
and reand ing inward trom each pearl, there was a


 any one ot which, in in system ot cipher-
writing. minht be




 thare was something more He the the mater than ho had so orar discovered.
Sudidenly
ho saw that
fust
 with the hargo pearin aumber. the top tarting nom numm ber 1, the eircle ot numbers ran around
tho eitye of the hox the odge ot tho box until it returned to
its starting point at number 26 . In his efrorts to seo these number
which were very small

 aware of the fact that the rimbor orge
ot the box containing the number, and the circle of pariss, was morable ort
fited so so cunnuingly into the top of the

 ar the engraving on its surtace. pan Holding the lower part of the box
frmm in
his loft hand, he turned
the



 alphabeta trom which a person desiring
to use a cipher militht chosese ot gain, howerer. Duvaluseas. wonsecions

 yet reaned the solution of the problem.
In employsing such a system of ciphers


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4


 surface.
Instinct Instinctively he began to push at it,
presing it this way and that, to dis
cover it posedib cover it possible any andring or other
means whereby it might bo mad to turn up. A he did so hio ongers un-
consciously pressed upon the large pearl consciously
at the top.

| In a moment the upper surface of the |
| :---: |
| cross slid to one side, disclosing a tiny | shallow cavity beneath it, some quarter

of an inch in either direction, and no
 cardboard. Within this lay
tissue paper, tightly toldded.

 Duvall realized that he
the key to the cipher.
At once M, do Grisses's agitation, the
servant Noel's death, Hartmann's perservant Noels death, Hartman's's per-
secution on him, became clear. Evident-
ly there were documents. somewhere, secution of him, became clear. ehere, of
ly thera wero douments, osmewher of
some nature, which this cipher made insomen nature, which this cipher made in-
telligible, and which, without it, were tolligible, and which, without it, were
proot againt
all
attempts
to
read them.
What were thess documents?
Were
they in Hartmann's hands? These they in Hartmann's hands? Theses quas
tions he knew could not be answered
 mind, what should he do next: hy
destroying the tiny silip of paper he he
could render the snuff-box valuelese.
colt


 ing of which it had neen utilized ?
Possibly, it Hartmann hat such dou-
ments, they were but copies, obtained ments, they were but copies, oblained,
through the corruption of some clerk,
while the originals remained in on on
 1east
had been exhausted.
Then he realized, in a flash, that if he he
 propasea as a means of obtaining his
sunfurbo as a
freedom, he could not hope to do so if
 mann knew of its existence. In some
way he had tearned, possibly through
wat the murderef man Noel, that the box
contained
such a kev, and would
excontained such a key, and would ex-
amino it and satisfy himsalt that it had amine it and satisty himsear would alow
not been removed berore he would
him to leane the place. $T$ This would inhim to pere the piaco. This would in-
evitably result in his being thanougly
ent his person found.
He seond in an agony of doubt, wondering which alternative he shount take
His reflections were rudely
disturbec by the sound of footsteps in the cor-
ridor outside the doors
In a moment he had replaced the tiny bit of paper
in the recess beneath the cross, slid the in the recess a mass of straw which lay
box beneat the packing-case aysainst which
on to on top of the packing-case against which
he had been Ioening.
heward the door and
 into a dark corner when the doc
onened and Hartmann appeared on the $\begin{aligned} & \text { opened and } \\ & \text { threshold. } \\ & \text { (Tortmann ape appeare }\end{aligned}$
(Tontinued.)
Questions and Answers. Miscellaneous.


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## Questions and Answers.

- 





 | veterinary |
| :---: |
| enclosed. | Miscellaneous.

Money for Drainage I have been told that a farmer can
borrow money from the Government for
drainage purposes. Could you tell me drainage purposes. Could you tell me
how to go about it, and at what rate how to go about it, and at what rate
of interest one may procure the loan? CONSTANT READER.
Ans.-You will be able to brorrow mone from the Government for this purpose, but it must come through your township council. You make application to them,
and they will supply you with the proper and they will supply you with the proper
forms upon which to make official application. This being done, the council
passes a by-law for the purpose passes a by-law for the purpose, and it
circumstances are satisfactory, they will circumstances are satisfactory, they will
lend you money not exceeding $\$ 1,000$, and nothing less than $\$ 100$. The town-
ship issues debentures, which are purchased by the Government out of the
Consolidated Revenue Fund. On each $\$ 100$, you return each year $\$ 7.36$, which clears you of all obligation at the end
of twenty years, both interest and principle. The rate is 4 per cent. per annum, and this, with the sinking fund, repays the debt in twenty years. You
are obliged to make application to your township council, who will then proceed with the matter.
Cement Dairy Building. Kindly let me know the material re-
quired to make a cement milk-house $8 \times 10$ feet, inside measurement, using the barn
wall for one length, with trough wall for one length, with trough for six
eight-gallon cans, cement floor, and shanty roof. Five and a half feet at lowest side of building. SUBSCRIBER.
Ans.-The footings for such a building should be at the bottom of the frost
line. Howevert footings be made of gravel or small
stones, with a small stones, with a small amount of cement,
it will do for the foundation,' but there it will do for the foundation, but there
should bee about one foot of footings, 10 should be about one for or forings, the
inches wide, for the foundation of the
building. We understand this also, that buiding. We un to be made of cement, so the
the root
estimates for the whole building will include that portion. It will require $27 \frac{1}{2}$
bags of cement, 62 cubic feet of sharp sand, and 113 cubic feet of gravel. If

you do not wish to construct the ronf of cement, deduct from this 5 bags of | cement, | $12 \frac{1}{2}$ feet of sand, and 20 feet of |
| :--- | :--- |
| gravel. | These calculations are based on | different mixtures, which are made up of

different proportions me cemen different proportions of cement, coarse,
clean sand crunhed stone. The footings to the to
depth of one foot, and 10 inches wide, depth of one tort, and
are mixed in the proportion of 1 part of
cement, $2 \frac{1}{2}$ parts sand, and 5 parts
gravel. gravel. The walls, 6 inches thick, are
made of a mixture of $1-2-4$. The floor, 4 inches thick, is made of a mix-
ture of $1-2 \frac{1}{2}-4$. The tank is figured
as being $2 \hbar$ teet. wide, 4 feet as being $2 \frac{1}{4}$ feet wide, 4 feet long, and
20 inches deep, 8 inches of which shall
be below the surface of the be below the surface of the floor. TThese
proportions will accommodate two cans
 of $\begin{aligned} & \text {-inch rods for reinforcing. The } \\ & \text { building is estimated as eight feet high } \\ & \text { in front, with the end against the }\end{aligned}$ in front, with the end against the bain
which should receive a thin coating of cement, but no provisions were made for it in these estimates.
Volume 36 of the Scottish Clydesdale
Studhook, has heen issued Studhook, has been issoted from the press
and a copy received at this office, hy
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& \text { Write for fuller Description. }
\end{aligned}
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Farmers' Information Bureau

## Canada Cement Company Limited

557 Herald Building

MAY 28, 1914
THE FARMER'S ADVOCATE.

## Questions and Answers.

 Miscellaneous.Power House-Calf Scours. 1. I would like to know what the cost enough for build a power house large and washing-machine, churn, separalor, with pulleys and shafting, and everything necessary for hydro-electric power? 2. What is a good thing to give young
calves for white scours?
M.
P. Ans, -1 . Can any of our readers, with such a builang and equipm?
an answer to this question
2. White scours . Wite scours in calves is th con-
tagious disease. It is claimed that the germs that cause it gain entrance to the system through the raw surface of the
new -born call's umbilical cord. As a Qreventive, stallas should be kept clean,
and the navel cord should be disinitected and the navel cord should be disinfected
with carbolic acid, corrosive sublimate, with carbolic acid, corrosive sublimate,
or formalin, as so often recommended through these columns. Formalin has also been strongly recommended as a
treatment treatment for the cure of this disease.
Try ounce of formalin mixed with 15 Try ounce of formalin mixed with 15 in
ounces of distilled or freshly - boiled water, which should be kept in an ambercolored bottle to prevent chemical changes taking place. Add one tea-
spoonful of this mixture to each pound spoonful of this mixture to each pound
or pint of milk fed to affected calves, or as a preventive it may be mixed with the skimmed milk just after separating, and fed to all calves at such times as there seems to be danger of the trouble noting the first signs of derangement ot the digestive organs. It is good practice in treating scouring calves, to give from one to two ounces of castor oil as this in milk. After the Give acted, commence the formalin treatment. It is always wise to isolate calves suffering from this disease, and after cleaning and occupied by affected calves, the walls
been octer should be whitewashed and the floors kept covered with clean, dry bedding. To Preserve Shingles.

## Lightning Protection



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legs bright and lean. Keeps lard, pastry and sweets free from ants.


Kindly let me know your opinion on
the following, through the questions and Answers column. I am building a new horse-stable, $30 \times 50$ feet, and have pur-
chased the best quality of B. C. s. shingles for roof, and would like to know whether it would pay me to use creosote on same. The cresote would cost me
about 25 cents a gallon here. ${ }^{\text {It }}$ It about 25 cents a gallon here. It is
wood creosote. Which is is the better, wood or coal creosote? How many gal-
年 lons would it take for 25 squares, and
what is the best method of application? what is the best method of application? Ans.-This method of preserving timbers is used more generally where cheap nateriais are bought. This treatment
renders them almost as lasting as the verders them almost as lasting as the
very best quality, and does not cost quite as much in the end. Coal creosote, 'trom beech wood especielly, is used for medicinal purposes, and is much more expensive on account of its ingredients and properties. The creosote $\begin{aligned} & \text { gotten } \\ & \text { through the distillation of coal is most }\end{aligned}$ commonly used, and does the work satisfactorily. Shingles are treated with considerable succeps, and it is generally
nelieved that their
life-time will be believedened considerably. They may be iengthened consideranfler they are on the
treated by painting after roof, or by dipping them individual'y or
in bunches in a large tank. A large barrel or tank could be made very hear the bottom. This should extend out 18 or 20 inches from the lbarrel, and a smail blaze under the bent part will temperature. The shingles should absorb about 6 gallons to every 1,000
shingles, which would cost about $\$ 1.50$ per thousand, and that is not far out of the way, as $\$ 1.25$ to $\$ 1.50$ per thousand. The nost effective treatment is administered by allowing the shingles to cool off in
the liquid. They should be heated to to about 220 degrees Fahrenheit, and then
allowed to cool down. In this way the liquid is forced into the cavities and interstices of the wood. If the 11quid in applied after the shingles are laid, they
should receive two applications with


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Mr. H. A. Nelson of Ponoka, Alta.,
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Wher fimm in Great Brituin This is of tact whit


THE FARMER'S ADVOCATE

Questions and Answers. Veterinary

Operation for Lamenes Mare went lame last summer. My veterinarian recommended nerving, which was done. She stil went lame lame on months, and then again right now. Irozen ground, but is all right now. 1. Was the lameness due to some other cause ?
3. Will nerving hurt her in the future ?
3. Ans. -1 . As your veterinarian diag nosed a lameness, that was removable by the operation of neurotomy or nerving, it is quite probable that the operation removed the suffering at the time.
was
2. The recent lameness on-frozen
ground was doubtiess due to some other cause.
3. This is impossible to say. Horses hat have been operated sed atimes
continue sound for ycars, but at any continue sound for years, out at any
time are liable to become useless from rupture of the nexor tendon or Iracture
of the navicular bone, or other disease of the navicular bone, or other disease
of the foot. As all sensation is removed of the foot. As all sensation
from the foot, the animal will not show symptoms of disease of the foot until to late to treat.

## Miscellaneous

Breeding Pigs
I have a pure-bred Tamworth sow that since bred her to a Tamworth. Will her pigs be all right to register? M. C. Ans.-Provided the pigs in color mark ings meet the requirements of the Tram
worth rules, they will register all right. Blackhead.
Having read from time to time a great deal in your valuable paper re black head in fowl, and am especially interest
ed, would like some information. I will tell you my experience. A year ago last
March my hens commenced taking blackMarch my hens commenced taking black
head, and I lost about hall of my flock Last summer and fall 1 shut up $m$
poultry-house and thoroughly disinfected house and yards twice. This spring began in March to feed muriatic acic
and had no trouble until I set six
six and had no trouble until I set sir
broody hens and at the end of eight broody hens, and at the end of eight
days, all six took the disease, and four died. I had them all in clean boxes in
a wagon-shed where hens never were be
ne fore. Can you tell me if Plymouth Rock
fowl are more subject to that disease than other breeds, and what caused the hatching henset to eat, and plenty of
corn and wheat to clean, fresh water to drink. information
very pleased to receive any information regarding this matter. If I can't do something to eradicate the disease, I will
have to get rid of my flock. clined to think Plymouth Rocks may be more subject to that disease. Will any of
your readers that have been trouble Nowls that disease, kindly answer if their breed?
Ans.-We never heard of Plymouth
Rocks being more subirict to the disease than any other breed of fowls, and would that the hens contracted the disease Voln germs lett in the runs by the
isease a year ago.
otherwise wo the ises. Put hens it. Clean up the premSut hens and chickens on
runs, and destroy all affected birds.

## Gossip.

 At an auction sale of Shorthorns theirst week in May, the property of the



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THE FARMER'S ADVOCATE.

Questions and Answers. Miscellianénus.
Sumac-Ducks.

1. Have ten or fifteen acress of pasture
land overrun with sumac. It is sandy land overrun with sumac. It is sandy
loam. Does it spread from the seed
 to kill it ?
2. How many ducks should run with 2. How many ducks should run with
one drake ? Ang_-1. It spreads from root and
seed.- The only way to kill it is to dig seed The only way to kill it it to dit
it out or keep it cut below the ground
3. Not more than four or five. Gen erally, not more than three are kept with one drake.

Woodchucks
Will you please tell me, through your valuable paper, how to get woodchucks
out of their holes ?
E. H. W. W. Ans.-Wo have seen woodchucks dug out
and we have seen them smoked out by
 their underground den. Better than either
would be to get $a$ little carbon bisulwould be ge get a intie carbon from
phide trom your drugsist Pour from
one to two tablespoonflus of the material one to two tablespoonfuls of the material
over some cloth or rass, and ram it into over some cloth or rags, and ram it nut
the hole as tar as possible, and then pack' the entrance full of earth. Where there are two holes, one should be closed
before the operation begins.
This beforo the operation begins. This will
smother the woodchucks in their holes. About a Young Orchard 1. Will you kindly publish in your paper how and when is the
plant an apple orchard?
have a hilly field, very stoep; a kind of hog's back. It is very good clay loan. On one side it slopes north-west, and on anotide it is
it slopes southeest. ${ }^{\text {On one }}$ one side very cold. Would you consider this a
good place for trees?
2. If so, what variety would you ad-
vise planting?
3. Where is
the best place to get 4. Would any other kind of fruit trees do well on this same land? F. D. McC. Ans.-1. A northern slope is desirable
for an apple orchard, but one where Cor an apple orchard, but one where
seepage or hillside water makes it cold is not desirable. of course, the excess sive masture can it iver steen, which condi-
you say it
tion migh lead to considerable wash tion might iead to consudarabe wash
during spring freshets. M Many orchards are planted sut if the land is as steep
tory results, but as you lead us to believe, it might be
advisable to select some other part of the farm for the orchard. The custom-
ary season for setting apple trees is in ary season for setting apple treess lirm
the early spring, when the land is warm and can be oesily worked up. Any goil
anh hat beer previouly prepared by by
that hat that hat heen preve has not been do-
leguminous crope or
pleted ot soil fertility by bexcessive croppleted of sould be in good condition. The
ping, shoold
pent costomary distance or aetting stan
varieties is 33 or 40 feet apart. varieties is
2. Standard varieties of apples now being set are Baldwin, Greening, Northbern Spy, McIntosh Red, Snow, Stark
ernd
and many others with more and many others with more or less vir
tues to commend them. It is wise in planting to select those varieties that
have quality and appearance to sell them
wate
 with inferior
that the market will ever become glutted with such apples as Northern Spy, Mc
Intosh and Snow, and perhaps a limited amount of Grenings. These are things
worthy of consideration in setting young orcher, that they are not the
bered, howere
quickest to come into bearing, and often some varieties of the interior qualtiee
will bear early and abundantly enough
andesirable points re to overcome the undesirable points
garding their quality. However, that garang atter for individual consideration,
is and maty
based upon
nearness
to markets and

 our columns, and
few numbers you will find the notice Yew new leading frms.
several pears and plums could be grown on


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A.ice Yorkhire
AN. No. 1, Elora, Ont. Shorthorns "Trout Creek Wonder" at


IHE FARMER'S ADVOCATE.
FOLNDED 1866

Questionis and Answers. Miscellaneous.
Repairing Fence. A and B own farms adjoining. The hall way across. A has always |kept up the part of fence in the clearing, as he
had cleared this half before $B$, had cleared this half before B cleared
his. B ran the fence throught the bush
hion
 of trees from A's bush were blown across
B's part of fence. Who is obliged to repair the broken fence? ENQUIRER.
Ontario. Ans.-A. See Section 17 of The Line 1914, Chapter 259).

Leg Weakness.
What can I do for early spring chicks
that lose use of their legs, and. what is the cause of it? They eat fairly well, but stagger about, and finally die. J . s . Ans.-Leg weakness may result from
many causes, crowding, close confinement many causes, crowding, close confinement,
and lack of fresh air in the brooder are and lack of fresh air in the brooder ar
common causes of this trouble. Over
heating with too little fresh air, is an heating, with too little fresh air, is an
other cause, and the lack of sufficien mineral food is should get plenty of grit, and fine, granu-
lated, dry, raw bone. Give also plent of fresh, green food.
To Promote Growth of Hoof
Please publish the best and quickest
way to make a horse's foot grow, and also soften? chase the stuff.
Ans. - Blister around the hoof head wit a blister composed of two drams each o
biniodide of mercury and cantharides, biniodide of mercury and cantharides,
mixed with two ounces vaseline. Tie so
he cannot bite the parts. Clip off the he cannot bite the parts. Clip off the
hair around the hoof head. Rub well once daily for two days with the blister,
and on the third day wash off and appl and on the. Let loose now. Oil daily
sweet oil.
until the scale comes off. Repeat in a until the scale comes off. Repeat in
month if necessary. Get the drugs a a drug store. 1. Is it legal or right for a doctor to
placard a house and not state what the disease is -just stating, "this house quarantined"? 2. Is it legal or right to remove a
patient from one house to another patient from one house to another after
being treated for over a week for some
cing contagious disease not made known by
the doctor, or inmates of said house, said Che doctor, or inmates of said house, said
house being situated in a small village? house being situated in a smali village
3. Who is the proper authority to ask
in order to find out the nature of said in order to find out the nature of said
disease, or are they in duty bound to

2. No. Medical Health Officer of the
3. The Mity
municipality. Keeping Butter. I have but one cow, and won't bother
selling the butter if 1 can help it. Would it be advisable to pan help it pe the but-
ter uway for winter use? If so, how Ans.-It is believed by those who D.
prave hat the best time to do so is in in the
hinent he of June and september. Septem-
Eer preferyed. taken in handline the enilh and ripening
the cream, it being necessar to have a
good clean flaver to the cream, it being necessary to have a
good clean fiavor to buyin with. Butter
to be packed should be washed twice.

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A. A F
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THE FARMER'S ADVOCATE.

Qu sstions and Answers. Misc illaneous.
Lending a Rifle-Trespassing Cattle 1. A borrowed a rifle from B. A e-
turned rifle to B's agent. B says it is
valueless to him. Can he collect part valuedess to to him. Agent. B says it is
van he collect part
or full value from A, A being a boy
under under 14 years of age when he received
riffe from B ? 2. Would B be liable to a fine for
loaning firearms to loaning firearms to a boy of that age?
3. B's cattle and colts having broken
into A's roporty sever into A s property several times, some of
A's heifers getting with calf to B's bull,
can A collect damages for to heifers, B having been asked to and his part of fence several times?
Ontario.
A SUBSCRIBER. Ans.-1. It is not likely that he could do so.
2. No.
3. We.
3. We think that $A$ is entitled to re-
cover damages from $B$. Lost Dog.
I lost a dog some time ago, and heard
that it was at a man's house three miles that it was at a man's house three miles
away, having apparently strayed there, or been picked up on the road. 1 called
at the man's house and demanded the dog. He absolutely refused to give it
up, giving at the time no reasons except up, giving at the time no reasons except
that he had found it. Can I have him
arrested forthwith ind brought before that he had found it. Can I have him
arrested forthwith and brought before a
magistrate? Would the magistrate give Me an order or warrant for his arrest ?
Ontario. Ontario.
Ans.-It is likely that ENQUIRER. $\underset{\text { would }}{\text { wight }}$ decline to issue a warrant. $\quad$ He might, upon your laying a sworn infor-
mation before him, charging the man
with theft of the with theft of the dog, grant a summons
for service upon him requiring his apYor service upon him requiring his ap-
pearance to answer the charge. But
you would incur considerable you would incur considerable risk in tak-
ing such proceedings. On the whole, it ing such proceedings. On the whole, it
would probably be advisable to sue in
the in the Division Court. A replevin action
in that Court would be the appropriate in that Court $\begin{aligned} & \text { would be the appropriate } \\ & \text { form of suit. }\end{aligned}$ By such replevin proceedings, you ought to be able to recover
your dog and damages for its detention. Ditching.
A and B put ditch in last summer. A
gives B outlet through bush. B has a
tite tile drain half way through bush, and
is letting water is letting water run over ground into
A's outlet drain and is washing earth into tile. This ditch is an engineer's
drain. B helped his share putting in tile. B's farm butts A's. This main
ditch his place and C's. B's outlet is a branch from main ditch.

1. Can B run water out of tile over ground into A's tile?
2. Will the law allow a man to do this? Can a man be made to tile a ditch
3. Can through bush?
4. Can B be made to tile ditch down to outlet?
Ontario. A SUBSCRIBER. Ans. -1 and 2. We do not see that he can be preve.
5. Hardly.
6. Probably not,

Wife's Property Rights.
 deed, which is held by the seller, and also
signs an agreement of purchase.
His Wifes hame is not on any of the papers

1. What hold has his wife upon the 2. Has she any power legally, to stop the sale of the place if she is not will.
ing that it should be sold ? 3. If he shour be divided, there being how woul
children? Ontario. She has her dower-that is to
Ans-1. She
say, the right to an estate for life in say, the right to an estate for life in
one-third of her husbands interest in the
farm in the event of her surviving him. 2. Practically, yes; for he could only
sell subject to her dower interest, and
would find it difficult. if not impossible to find a purchaser willing to buy in
that way.
3 whe could take her dower. and subject 3. She could take her dower, and subject
thereto the property would be divided
equally between the children: or she
could take a third of her husband's entire estate remaining after payment of
debts and expenses. and the children the

## 

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Tamworths

THE FARMER'S ADVOCATE.

Questions and Answers. Miscellaneous.
Engineer's Papers.
Where can I obtain information conerning the getting of papers to run a rovinces, Manitoba or Saskatchewan ? ENQUIRER. Ans.-This matter is under Provincial
jurisdiction. Write the Minister of Pubic Works for Saskatchewan for application forms. We are not sure whether it is handled by the Public Works Department in Alberta or not, but if you wrote there, no doubt you would receive the necessary informa
where to obtain it.

A Horse Deal.
A owns mare in foal. In fall of year he trades her with B, no money being
paid on deal just then, but B agreeing to pay next spring the price of breeding service of stallion to the amount of $\$ 25$
(or for colt). A has witness in his (or for colt). A has witness in his
father to the whole deal. B trades mare with C, $\$ 5$ being paid between the horse
and C agreeing to pay for colt. B doe and C agreeing to pay for colt. B doe
not deny agreeing to pay for colt, but
will not pay for it, therefore B says he will not pay for it, therefore B says he
will not pay A for it. There were no
writings in these deals. 1. Can A legally collect this money
from B ?
2. If A does not get his money fron B. If A doos not get his money fron
B, follow and take mare and
SIBSCRBERR colt ?
Ans.-1. We think that A can collec
from it he is worth it. B has n from B, if he is worth it. B has
excuse because C does not pay him.
2. We do not think a can tollow

Vinegar - Potatoes - Maple Sap. 1. One year ago last fall I got cid
made from mixed apples. It fermente and with it I put about a quart
nother of vinegar. It is no good mother of
vinegar y
me on the land and plowing it down ar dropping
same time
3. I hav

$\qquad$ Ans.-1. Your method of making vin
gar is all right, irovided you had prop
temperature and a clean container temperature and a clean container.
mitight have been better had you drain ofi the clear juice from the barrel an
jut it into a container that had pt Viously been scalded. Some "mother
vincgar" and a little pure vinegar yood to start fermentation. This shoul



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| ${ }^{1494}$ |
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| 85 C | While The Rivers of Love Fle

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