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VoL. XLIV.


## BELL ORGANS



Che fotill fiano and organ company. limited. GUELPH, - ONTARIO.


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| :---: |


| THE WESTERN REAL ESTATE |
| :--- |
| EXCHANGE, LTD. |
| 78 Dundas St.Phone $6 \%$$\quad$London, Ont. |

LONDON, ONTARIO. APRIL 8, 1909.


The De Laval Separator Co., 173-177 William Street, - MONTREAL


WRITE FOR NAME OF OUR NEAREST AGENCY. For Drain Tile, Red and White Building Brick AND CEIMENT CHIMNEYS, WRITE: $\mathbb{R}$. J. DOYLE, OWEN SOUND, ONTARIO.


## How The Farmers Voted <br>  <br> We recently offered a beautiful calendar to every farmer sending us his name and address

 and telling us how many cows he had and what make of cream separator he owned. We received many thousand replies. Every one of these farmers told us the name of his separator. It was just as though the farmers had voted to decide which cream separator is best.
## Almost Half Say Tubular

More than 41 per cent.-almost one half-of all the separators owned by these many thousand farmers are Tubular separators. There are more than twice as many Tubulars as the three leading "bucket bowl" separators combined. This absolutely proves that farmers like Sharples Tubulars best.

This is the farmers verdict. Farmers are so thoroughly convinced that Tubulars are way ahead of the very best "bucket bowl" machines that they have bought over twice as many Tubulars as they have the three leading "bucket bowl" separators combined.

You will make no mistake in buying a Tubular. The manufacture of Tubulars is one of Canada's leading industries. 1908 sales way ahead of 1907 -out of sight of most, if not all, competitors combined. The fine features of Tubulars are making 1909 better yet. Write for catalog No. 193.

Rubuiar suppiy caas are low, steady, easy tofill and need not be removed to take the machine apart. The driving dears, and the hat bearing from which the howl hands, are enclosed, tust proof, self oiling.

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


Sharples Tubular Separators run so easily that the medium sizes can be


## Every safe CLock Shingle is made to meet the rigid requirements of the British Government for Admiralty and other Siublic service



HE British Government requires
all galvanized steel roofing for
Admiralty or other public work
to be of specific grade and to be capable of withstanding : certain acid test. or this purpose are
The acids used for
strong enough to burn the skin off strong, enough to burn the skin off
a man's hand, and yet the galvanizing a man's hand, and yet the galvanizing
must be heavy enough to withstand must be heavy enough to withstand
their action for a definite period. Exposure to wind, rain and snow
for a quarter of a century is much for a quarter of a century is much
less destructive than this acid test. Yet every Safe Lock shingle is guaranted to meet the Government requiremint in this and all other respects.
No wonder that those who have used No wonder that those who Shingles declare that they
will last as long as the buildings they will last as long as the buildings they
protect. Safe Lock Shingles are the only
sling les that actually lock on all four shingles that actually lock on all four
sides so that they cannot pull apart. Shingles which do not lock on four
sides are not Safe Lock Shingles. Agar Sa fo Lock Shingles are the
Ag an andes that completely protect the roofing nails from weather. thicknesses of steel along the upper
edge of lock, thereby doubling the strength along the line of greatest - The only shingle galvanized after
proper size for Safe Lock Shingles
 five protective shingle sold with a posit against light policy signed and sealed by the mana-
facturers, the Metal Shingle \& Siding Company, the Metal Shingle \& Siding

Every Canadian farmer who expect. to put up a new barn or house or th-
reproof old buildings is directly in-
terested in this extraordinary free offer.
Think of it! A straight-out lightMing insurance policy free from con-
ditions of any kind. It is the most liberal roofing offer ever made to CanInsurance records show that on half the fire losses on barns in Canada
result from lightning. The property
loss in these cases amounts to many
$\qquad$ the market for more than ten years,
:and in all that time no building cor-
 This proves to us that Safe Lock lightning. Anyway, we are willing to show our
faith in Safe Lock Shingles and will protect you from lightning without one rent additional
Safe Lock. Shingles are sold at the
same price as shingles known to be
inferior in quality of steel, galvanizing
and construction.
Safe Lock Shingles lock positively
and securely on all four sides. They
and cannot be blown off, nor can they be
pulled apart through the warping of
the sheeting, or in any other way.

We want you to know what some of the users of Safe Lock les say of them. Lock' makes your shingles absolutely wind and water proof. The are the best shingles on the market to-da F. B. DOUD, Branchton, Ont.-"'The Galvanized Steel roof is apparently as good as when prof, and give clean cistern water. ©/,
make a lasting storm-tight roof, am satisfied that I put on a good roof."' W. J. McPHERSON, Berryton, Ont.- - "The 'Safe Lock' Shingles
that 1 purchased from you ten years ago have given splendid satisfa that I purchased from you ten years ago have given splendid satisface-
dion. The roof has never leaked a drop, and they seem to be just as good as the day they were put on." J. C. PAYNE, Cayuga, Ont.- "It must be ten years now since I bought the metal 'Safe Lock' Shingles, and up to this time 1 have no
reason to regret their purchase We have had wooden reason to regret their purchase. We have had wooden roofs put on
since which are open in spots from the splitting and shrinkage of shingles. No difficulty, so far as I have noticed at least, has arisen with your Metal Shingles, and the roof seems compact and durable So far as I have been able to see, I have seen no wear or injury to
the shingles during the ten years use,, and cannot see but that the
roof is just :is good as when it went on." SLURDOCK McKENZIE, Bear Line, Ont.-"The 'Safe Lock' Shingles have never given me any trouble, and they appear to be as
good to-llay as the day I put them on. I am well satisfied with them good to-lay as the day I put them on. I am well satisfied with them,
as I believe them to be the best roofing that can be used on barn
as buildings." GEO. HARDY, Ashgrove, Ont.- "It will be eight years in June
since the barn was shingled. since the way, and it appears to be as good as when put on.
recommending your shingles as the best that can be got.," have bee MRS. JAMES STEWART, Pendleton, Ont.-"In reply to your letter asking about shingles I bought from you over five years ago, I looked the roof all over to-day, and they seem to be in as good
condition as when they were put on the roof. The shingles don't seem to be any the worse for wear, and they will last for years.
Send to-day for our book, "The Truth about Roofing", and full details of our Fire Insurance Policy payable in cash if your Safe Lock
Roof is damaged by lightning. The Metal Shingle and Siding Co. Ld d.
"Roofers to the Farmers of Canada"
Queen Street Factory, Preston, Ontario
Branch Factory, Montreal
CUT Off this coupon and mail to us



LOMdOM Gas or Gasoline
ARE NO EXPERIMENT.
Based on sound, well-established principles
Scott Machine Company, Ltd.
LONDON,


## Your can rest easy nights when you Oshawa-shingle -and save money, as well.

IT Any roof covered with Oshawa Steel Shingles (Gtaranteed) is proof against lightning building so safely.

TI That particularly matters to you, if you own barns, for during 1907 f] from the most accurate and complete figures it is at present possible to compile, this is what the electric blast cost the fammers of en tinent:

Lightning struck 6,700 farm buildings in Canada and the United States.

Fires, caused by lightning, destroyed property valued at $\$ 4,123,000$ Lightning killed 4,457 head of live stock
Lightning killed 623 human beings, and injured 889 , nearly all dwellon farms.
II Insurance men declare that more than forty per cent. of all barn fires I are caused by lightning. Barns are peculiarly subject to the light ning stroke, beve they. oll inoisture by evaporation

## OSHAWA GALVANIZED STEEL SHINGLES

A new roof for nothing if they leak by 1934
(II Yet for a cost of less than five cents a year per ioo square feet you解 ightning. 4] roof that is absolutely wet-proof ; absolutery wind tight; absolutely fire-proof; and that is GUARANTEED to be a good roof for twenty-five years without painting, patching, repairing, or bother or fuss of any kind
(I) Anybody who never saw steel shingles before can lay an Oshawa
 shears, and no guide but the simple, easily-followed directions that come he shingles
(1] Anybody who has a building worth roofing right can afford the ONL
kind of sheet metal building materials - too many items to even mention here. You can have a catalogue - estimate prices, advice-just for the ask ing. We'd like especially to in terest you in our Art Steel Ceil ings and Side Walls - they are revelation to many people. More than 2,000 designs. May we send you booklet and pictures of some of them
(1) That is the story in brief: Send for the free book that tells it at length, and proves every statement as it goes along. With the book sample shingle, to show you what we mean by saying that the steel, heavily galvanized on both sides and all edres, and fitted with the Pedlar four-way lock that makes the whole roof one seamless, unbroken sheet of tough steel-a roof that is not only guaranteed for twenty - five cars, but good for a centur
(II Cet the book, and learn about "Rooting Right." Send for it now-to-day Ask for Roofing Right Booklet No it Address our near



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

LONDON, ONTARIO, APRIL 8, 1909
1)evelopment in manufacturing, and a conse quent lavish consumption of all kinds of wood alarming. Gradually-increasing prices point to abnormal profits from all wooded land. 1 Tnited States, recognizing the rapid decrease in home supply, evinces alarm by a proposal to re duce the United States tarifl on lumber from $\$ 2$ to $\$ 1$ per thousand. This is an augury of still further increases in umber prices, ana the Amerk ing conditions for import ensier Canadians should exercise the strictest care in cutting down trees, and also take precautions to induce con tinuous cropping on areas on which trees now

But that is not all. The non-agricultura lands already bared of trees can be made to give profitable crops by skilled methods of reforesting Already, some Ontario townships comprise as low as five per cent. wooded land. In 1904, th average for all settled townships was fifteen pe cent. A deplorable valuable hardwood. Cres that can best be left in bush. Then, there are large tracts of land not suited for agricultural purposes. Private owners must arrange to manage properly the former; for the latter, the only solution seems to be permanent management as Provincial, or possibly municipal, forests.
The problem of reforestation, as considered by Prof. Zavitz, does not advise expenditures in ro planting, except where reasonable fire protectio is provided, or where there is no chance of na tural reproduction of desirable species. As a financial investment, ligures are given, taking in to account rate of interest, cost of land, cost of plant material, cost or planting, cost ananag ment, and protection and taxation. Aurnished investisactor expenditures Taking one acre of basis for expenditures. end of 40 years, is calculated to be $\$ 71.92$, and at the end of 60 years, $\$ 160.34$. Past experience on soil similar to that of Southern Ontario non-agricultural tracts, indicates that an acre of 60 -year white pine, artificially planted, will contain about 200 trees, ranging form 12 inches to 24 inches in diameter. At a stumpage vnlue of $\$ 10$ per thousand feet, this one acre vould be worth $\$ 800$, giving a net profit of $\$ 68$. of $\$ 3.25$, capitalized at $3 \frac{1}{\frac{1}{2}}$ per cent., in addlition to 31 per cent. interest on all money invested. Abandoned farms are to be found. In other instances families are trying hard to eke out a living on lands that are not in condition for grown. Figuring labor at $\$ 2.50$ per day for man and team, the cost of production is placed at $\$ 3.72$ per acre. The average yield is about ten bushels per acre, which, at 75 c ., gives a re-
turn of $\$ 7.50$, or the discouraging balance of $\$ 3.78$. The dearth of timber, and the prospect for present high prices bcing augmented, demand that farmers study the forestry question. F ported s9 9:3, 164 worth of forest products cluding oak southern pine, cherry chestnur, hickory, fence posts and railroad ties. Judicious cutting of trees, careful management of bush lands, and systematic planting of non-agricultural areas, are worth considering

Funny that " no," one of the easiest words in the English language to pronounce, is often the

## Grain-and-hay Rut.

One great trouble with farming in Eastern Canada is that too much land is devoted to oats and grass, and not half enough to corn, roots and clover. The grain-and-hay rut still holds dow man and impoverishes many a arm An idea prevails that cultivated crops re uire too much work, and that seeding to clover is too expensive to be indulged in more than once in five or six years. So they go on mowing their sod-bound timothy and June-grass meadows, till they will no longer yield a ton to the acre, and sowing nearly all their plowed acreage to grain, chiefly oats, harvesting thirty or thirtyfive bushels to the acre, and complaining because profits are meagre, and their fields become weedinfested and poor. ar cour , te annual re turns scarcely yield decent wages to themselves, arn int of course, they hesitate to invest money in clover seed, because, when they do sow it, they are so uncertain of a return, owing to the land having become depleted of humus and plant food. It is an awful rut, this grain-and-hay habit, from which so many find it hard to break away-an uninteresting, uninviting annual round. No wonder he young men long to get away from it.
Happily, here and there are progressive-spirited farmers, who have stepped out of the beaten path ap on to the highway of a broader ouctook. Ther problems, by growing more productive crops, by adopting rational rotation methods, and at the same time introducing variety into their work. They have begun, perhaps, if in the corn belt, by building a silo and planting corn after sod, fol dowing with grain, and seeding to clover, feeding both silage and clover hay to stock. The cori cleans the land and produces incredible quantites of good cattle feed. The fine state of tith which it leaves the cower being sown frequently crop of grain, and builds up the soil and renders it easier get future stands of clover. Corn and clover are a wonderful pair for soil renova tion, as well as for the feeding of stock. Combined in the ration, one supplies what the other lacks, while the growing of both, and feeding them upon the farm, both cleans and enriches the
land.
The new crops and the new system of management add interest to the farm work. What more refreshing than the verdant clover-seeding and the iragrant chove uplifg than the springing field lating of more in lux liance. of corn, rell in plant physiology as well as in principles of soil cultivation. There should be ten to twenty five acres of it on every farm in Castern Canada where corn matures either for husking or ensilage purposes, or, better still, for both
With waste lands reforested; rough, watered areas seeded to permanent pastures; rolling, clay hillsides in alfalra, and the rest of the land worked under a shot rotation of corn and roots, rollowed by grain seeded to clover, and the bulk of all the produce fed 10 good stock, with the mur furms could be encily doubled in ten vears; fertility increased, average crop yields raised, and more lahor employed, at a much higher wage with a fair profit still to the good. Too many acres are producing ten or firteen dollar crops of oats and hay, instead of thirty-dollar crops of
rhe Farmer's Advocate and Home Magazine.
thie leading agricultural journal in the DOMIMON
the wil foklished wheriv by (Ldtro) john Weld, Marnarr.
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THE FARMER'S ADvocate and home magazine It to pubiartial every independent on





 TYg LAW IS, that all subbcribers to newwppers are held respon-




 ETTERS intended
STde of the paper onl




Apoliped in our oolumns. Rejected matter will bo returned on
LL COMMUNICATIONS in reference to any matter connected Thit Hio paper should be addressed as below, and Addrese-THE FARMER'S ADVOCATR, or
THE WILLIAM WELD COMPANY (Lmarteo),

Lompon, Camada
Registration of Factories-Certificates for Makers.
Registration, or, in other words, licensing of ments for the manufacture of dairy products, and certification of the butter and cheese makers employed therein, are the two essential features of a bill styled "' The Dairy Products Act,"' introduced Agriculture, Hon. Jas. S. Duff. An outline of the provisions appeared in our news-columns last the provisions appeared in our news-columns last
week. Briefly, it requires that on or before week. Briefl, it requires ander cheese factories, milk condensories, milk-powder factories, or other such establishments, shall be registered with the Minister of Agriculture on forms supplied, nature of business, location, and other After the date named, no such business may be carried on in a place not so registered, without applica-
tion first being made to the Minister, and permission granted, following a report signed by an inspector. Refusal to grant permission may be based upon lack of proper equipment or unsanicision may be made to the Lieutenant-Governor-in-Council. Section 6 provides for the closing of a factory upon adverse report by an
The seventh section requires chief makers in actories or creameries, after 1911, to hold cer-
tificates of qualification from the Dairy Schools at Guelph or Kingston, a sub-section providing, however, that, in place of such certificate, a per
mit may be issued at any time upon the report mit may be issued at an inspector upon the general grounds of $x$ perience and competency.
Registration of factories, although ostensibly designed to insure against the establishment of running of co-operative plants upon unsatisfactor: sites, or with inadequate equipment, is presum
ably aimed at regulation of the small-factory evil. In parts of Fastern Ontario the large num
to progress, and the location of new ones works injustice to men or companies who already have certain standare of equipment and sanitation the Department of Agriculture, through its inspectors, will be given authority to minify this evil, although it seems to us that unnecessary interference with existing enterprises might well have been specified as an additional ground for withholding a permit to new factories. Also, it would seem and bringind prospective builders of new factories into ing prospective the the dairy inspectors before they might have gone the length of erecting their building.
On the other hand, the bill contains one very commendable section, which provides for with drawing of a permit upon report of an inspector.
The effect of this will be to strengthen the hands of the Department's staff of instructo
The section providing for certification of makers has been included on the recommendation of dairy leaders in the Eastern part ore general
ince. It is calculated to insure the more training in dairy schools of head makers, and to raise the standard of this important profession. Criticism from the patron's standpoint has been that it might tend to the formation of a makers' union to raise wages by combination. Wisdom of the makers. Other objections have been urged, but we can only hope that, if enacted (which it has not been at date of writing), a feasible basis of estimation of uncertified makers may be arrived at, nond the whole business kept free of any ves-
tige of political influence. On the whole, this bill tige of political influence. On the whole, this bill portion providinir for registration of factories.

## For Absolute Free Trade.

May I again venture to offer a few remarks The tone and spirit of your editorial of Octobe 1st, 1908 , are simply splendid, but it appears to me there are one or two weak points in your line culture, I wish to draw attention. You say, prosperous is to minimum. The way to build a house is to lay the foundation first." It is this minimum I wish to speak of. You would not think to lay the foundation of a house, and wilfully include even a minimum of decay, or that which would produce decay or weakness.
Your whole preceding line of argument goes to show-and, I think, rightly-that it is the presen maximum tariff that is sapping the vitals of agriculture. If the maximum is doing so, so, also, will the minimum, in a lesser degree.
Further, who is to determine the specific mean ing, or amount, of the word, as applied to the Now, carry this line of reasoning to a little
further on in the same article, where you say that, "Y Your own view, admirably expressed by a farmer, was that the tariff should be so adjusted
as to produce a maximum of customs revenue." Why should the tarif, which, as you show bears agqressively on the farmer, be so adjusted
as to "ring from him a maximum of customs revenue?
Is it any wonder, in the face of such a givingaway, by an influential agricultural journal, of
the position under which agriculture is carried on, that the quick-witted youth leaves the farm
for the city, where, as you put it in your issum of October 15 th, "Opportunities are found th realize on the labor of others," The "others,"
if searchingly looked for, will the found to he none other than the farmers, ally clever boy, or for that matter, the excep wealth for himself at farming the primary ir lictorim. Australin alse. with an equal effort
$\qquad$

Principles of Tariff Protection
The wisdom or unwisdom of the present system of tariff protection in Canada, is a point which has been much debated, and, I suppose, will Adopted originally as a temporary measure, in tended to establish urban industries more rapidly in our young country, and to be withdrawn when these were once established, it has apparently be come a settied system. have apparently made up their minds that the system is here to stay. Perhaps it is fortunate
that this question does not figure prominently in party politics to-day, for it allows us to consider the question on its own merits, and free from party bias. It is the duty of every citizen whether or not it is wise to have this system fastened upon us permanently. To the farmer, particularly, as the one who has everything to lose, and nothing to gain, through the system
the question is one of very great importance. It is my intention to deal with the subjec specifically-to speak not of theories, but of facts. But, in order to thoroughly understand the sub ject, it is necessary to first consider the theory,
" Protection" is afforded to home industries by means of a customs tax, more or less heavy levied on the products of similar industries en-
tering from other countries. This increases the price at which they can be sold by just the amount of the tax. Without the tax, the selling price is made up of three items: cost of manu facture, freight charges and profits. With the
tax, these items remain the same as before, but tax, these items remain the same as before, but
have the amount of the tax added to them. Thus, have the amount of the tax adder is raised by the full amount of the tax. But, not only is the price of the imported article raised, but the price There cannot be two prices for the same articles, even if one is homemade and the other imported. In this way, regardless of cost of production, the selling price of the homemade article is artificiall
enhanced by the full amount of the customs tax The protected industries are aided by being enabled to charge a higher price for their product than they otherwise could. They are given re allowed to collect it from the public in the But it is worth noting that this only applies o those industries whose products do not fully supply the needs of the home market. Wuply the home market, so that a surplus must seek a market abroad, the advantage of the protective duty
cannot be taken advantage of, unless there be a combine to fix prices, so that there shall be two prices, one designed for the home market, and the bssenco or competch un the for the whole of that commodity, and must be fixed by the price received for the exported surMus. In Canada, the one great industry that is not, and cannot be-at least for many years to come of protection, is agriculture. Our greatest natural resource is our soil, and, as that resource is just developed, it is now, has always been, and
will be for a very long time, true that our agriwill be for a very long time, true that our agri-
cultural products will be more than we need, we shall have to depend on a foreign market for the selling of our surplus. This, of course, carries
with it the truth that agriculture in Canada cannot benefit to any extent by protection. rotection that it can only benefit the protected industries by hampering the other industries of
the country. This is true. The higher price of the protected commodity is paid, not by the foreigner who sends his goods here, but by the
people who buy and use that commodity. full effect of the tax, as a moment's reflection which either are not protected, or cannot, from the nature of their production, reap the benefits
of protection. These are the strongest indusif protection. These are the strongest industhere is always the danger that those industries muraly adapted to the country will be held back This is the reasoning advanced by those who h... protection wisely any form. Yet, there may trime which are it isely to fiven only to those indusa tomporary help. the effect may be to establish many infustries that otherwise, exposed to full
competition from similar industries already es.....r. a dancerous system in an case, on account III the dimiculte of applving in wisely. It at once
irmates a class of heneficiaries, whose interest it our form of covernment, may gain great power,

Two things are to be feared from a permanent system of protection. That are not suited to the country, and that will be a perpetual burden up-
on it, just because the tax protection enables on it, to levy on other industries; and, second, them their diversion of men and money from other and more profitable channets. Ane second is the by restricting production to less than the needs of the home market, or by fixing a price for the home market higher than that of the export trade. There is reason to believe that all these
things exist in Canada at the present time, and that the whole burden of the system falls on agriculture, and so heavily that this industry cannot hold its own. A tax higher than all other taxes may have a good deal to do with our decreasing farm population, with the low profits of farming, with the problen of farm labor, and with many
of our other difficulties. It is my hope to explain this more fully in future. E. C. DRURY.

Renaissance of Maritime Agriculture.
The renaissance of Maritime agriculture is re
flected, even as it is promoted and encouraged, by the annual reports of the secretary of Agricul after year, promptly issued, brim-full of informa tion, and breathing the spirit of progress and hopefulness which animates the agricultural com the Agricultural Coliege at Truro. All things considered, it is about the most refreshing official document which finds its way to our desk.
Following up the idea instituted last year, when a feature of the annual report was a symposium of articles on the sheep industry, dairy-
ing is similarly treated in the 1908 report just to hand. The subject is discussed in all impor-
tant phases, from breeding, selection and feeding, tant phases, from breeding, selection and feeding,
to manufacture and marketing of the product The importance of the subject lies not alone in the present extent of the dairy business, but in its possibilities, as well. Prof. Cumming, the Secre-
tary of Agriculture, and Principal of the Agricultural College, estimates that, out of a total of
$14.433,000$ acres in Nova Scotia, about 5,000 ,$14,433,000$ acres in Nova Scotia, about $5,000,-$
vo0 are occupied by farmers, on which were kept, 000 are occupied by farmers, on which were kept,
in $1901,313,174$ horned cattle $i$. c., one to every or 4 acres. Of the total horned stock in the Province, 138,817 were cows, producing an estimated total of $416,451,000$ pounds of milk, vatued
at $\$ 4,164,510$. With the average production of
and attained, and the number quadrupled, the value of the dairy products of the Province could be
raised to $\$ 30,000,000$; or, counting the hogs that could be raised on the by-products, a total
well up to $\$ 50.000,0100$. Denmark, with only (wo-thirds the area, and similar climatic and soil conditions, is yearly exporting upwards of
$\$ 100,000,000$ worth of dairy products and pork. The value of dairying as a means of main-
uining soil fertility is impressed by a calculation taining soil fertility is impressed by a calculation
hat, while it would cost a farmer $\$ 6.68$ to buy in the form of commercial fertilizer the equivalent
of the fertility in a ton of timothy hay, on the other hand, when this is fed to dairy cows, and
the skim milk, in turn, to calves, the amount of the skim milk, in turn, to calves, the amount of
fertilizing elements sold off the farm would not exceed ten per cent. of the above amount. On
course, this does not take account oi wastage in manure, or cost of handling.
So much for economics and possibilities. cording to the Secretary's report, a considerable advance in private dairying was made in the
Province last year, though the output of the fac-
tories did not materinlly change there being tories did not materially change, there being
manufactured in these about 13,600 pounds more butter and 16,037 pounds less cheese than during 1907. Condensories at Truro and Antigonishe were manufactured into butter, cheese and contensed milk
than in 1907
Among the 167 Agricultural societies, Superinendent Fuller reports a demand ior first-class substitute Shorthorn bulls with special-purpose dairy sires. With an awakening interest in dairying, with more systematic use of pure-bred
dairy sires of authenticated producing ancestry, with good markets, excellent climatic conditions, and with an increasing realization of the economic
advantage of the dairy business, there would seem to be prospects for steady and antinded growth 'II other features, a wori in passing. A year "hish range of prices for all products excent has hi. in thuse offered less temptation to sell it on
Many evidences of stock improvemen
benefit from inoculation of alfalfa in about 50 per cent. of cases where tested. The thirty-two
model orchards established in various counties under the Act of 1901, are for the most part doing well. Intention is announced, in the report of the Principal of the Agricultural College, to develop hursery plantations, especially for the more imto set aside some two or three acres on which to grow commercial varieties of trees for study and demonstration. It has also been decided to andertake agricultural experiments, which hither-
to have rather been left to the Dominion Experimental Branch Farm, at Nappan.
The Agricultural College is proving of large The Agricultural College is proving of large feature of the work in January, 1909, being a short course for ladies in horticulture, dairying, seed selection, poultry-raising, and domestic scierice, with a few demonstrations in judging
horses and cattle. hy carolled, while at some classes as many as thirty were present.
That the work of the agricultural College can never prove as effective and far-reaching as it
ought. unless directly related to the common ought. unless directly related to the common
school work of the country, has been recognized by arranging, in affiliation with the staff of the Normal School, a summer course especially in
tended for teachers, so that after three, two, of in some cases one vacation season a teacher may
qualify himself or herself for a rural-science qualify himself or herself for a rural-science
diploma which carries with it the right to a special Government grant.


Merry Matchmaker
Thoroughbred stallion. Winner of Premium, Hunter Space iorbids more extended reference in this
ticle to the splendid work being carried on in the interest, not only of Nova Scotia, but of Maritime, agriculture. Suffice to say that the report under consideration registers another milestone in the record of Maritime agricultural
progress, and what has been done is but an index progress, and what has been done is but an index
of what we may expect.
N. B. Agriculture Report.
ince of New Brunswick, for 1908 , states that conditions in general have been about normal, and that increased attention to educational work is
having a marked effect on methods adopted. Unusual weather conditions resulted in late-sown grains being superior to early sowing. This is explained by the fact that the spring was late and cold. In early June, when most of the crop
was nicely above ground, a drouth set in that lasted until near the middle of July. The consequence was short straw and small heads. In wheat, the a verage yield for the last 11 years
has been 18.4 bushels. Last year it was 16.6 . has been 18.4 bushels. Last year it was 16.6 .
(ats averaged, for 11 years, 29.1 bushels, but in Dats averaged. .or 11 years, 29.1 bushels, but in 11 years' average, and 22.2 for last year. Buckwheat averaged 21.7 bushels during the last 11
wears, and 23.4 in 1908 . Fotatoes showed an vears, and 23.4 in 1908 , Potatoes showed an
nverage of 130 bushels for 11 years, and 167.8 last vear. Turnips yiclded 420.7 bushels average for it years, and 5i3.9 in 1908 .
realized by farmers. (ireat interest has been taken in field-crop competitions. This feature cating good seed both for seedsman and farmer. The benefit of the Seed Control Act in assisting the agriculturist to procure only good clean seed is appreciated. The net result The output of cheese factories and creameries also showed a decline. This is credited to the introduction of cream separators increasing home in cities to increased supple a scarcity of succulent food for the cows, owing to the severe drouth. Farmers are advised to supplement their pasturage with vetches, corn, or peas and oats. This practice is reported as growing in favor in
the leading dairy sections. Root crops were an excellent crop, but mangels are said to be too carce in dairy districts.
Horse-raising seems to be increasing in popu-
Parity. ron, are common. The covernment, also, has purhased 18 Thoroughlred stallions in Kentucky. attle are not receiving the actention they should. as compared with manure from stock-raising. A ew agricultural societies are doing a laudable ork in introducing pure-bred stock. alfalfa can be grown with encouraging results. The report advises nitro-culture treatment of the seed. Prospective growers are warned against sowing it on poor land. In order, first of all,
to inoculate the soil, it is recommended that a thin sowing of thoroughly-treated alfalfa be used,
with general seeding of grass and
clover No additional chards were set $\begin{array}{ll}\text { charas were } & \text { set } \\ \text { out during } \\ \text { Dead trees } & \text { were }\end{array}$ Dead trees were
replaced in all exceplaced in all orchard cept the orchard
of Madawaska
County, where the County, where the
loss was so great
each year that it has been considered unft for or
chard purposes. chard purposes.
Thirty student took advantage of the Government's offer to pay trans-
portation charges portation charges
to and from the Agricultural Col${ }_{\text {Agres at at Truro, }}$ Ontario, and Ste
Anne de Bellevue

An agricultural commission, com-
prising Hon.
D. V. Landry, o Chatham, and W W. Hubbard, of Burton, is in $\boldsymbol{n}$ -
vestigating agriculture, immigration and colonization conditions and possibilities. A complete form of inquiry has been sent to a correspondent in each school district.
Full reports are given of work done by Agricultural Societies and Farmers' Institutes. The proceedings of the Fruit-growers' Association convention and the Maritime Winter Fair also em-
body valuable information for agriculturists in

## HORSES

Getting the Hapness Ready. Harness should be cleaned once a year, at is as good a time as any for putting it into shape. It needs to be cleaned, oiled and repaired, broken traces mended, torn parts sewn up, last
year's deposit of dirt washed out, and the leather oiled, to maintain its softness, elasticity and wearing qualities. To properly clean and oil harness, proceed as
follows: Take the harness apart, and place the parts in a tub of lukewarm water, with a hand-
ful of washing soda in it. minutes, and then scrub each piece with an ordinary scrubbing brush on a board. When the low to hang in a moderate temperature until again dry, and then give a second dressing with oil. When dry, put together, and then, if thought
advisable, for appearance sake, apply some of the
ons the Government of pure-hred horses

Indigestion in Horses． IMPORTANCE OF ATTENTION TO TEETH． Digestive trouble in horses may be chronic o acute．Chronic indigestion is by no means rare
The usual cause is inability to masticate the foo properly，on account of irregularities of the sonable amount of food，but will not look or fee well．His hair will be dry－looking and staring he will be low in flesh，dull in spirits，and wil
tire easily．He is sometimes subject to more tire easily．He is sometimes subject to more or digesting the imperfectly－masticated food．His appetite is often capricious，and digestion irregu followed by a semi－constipated condition of the bowels，are frequently noticed．An examination of the mouth will usually reveal irregularities of and the inner margin of the lower molars wil present numerous little sharp projections，which
irritate the cheeks and the tongue，which often present abrasions．In many cases，especially in
old horses，one or more teeth are quite long，the bearing surface being from $\frac{1}{2}$ to 1 inch above or below their fellows．In such cases，from some
cause，the opposing tooth or teeth are either ab－ sent，or worn down until the long tooth or tecth
press upon and lacerate the gums during mastica－
tion．It is surprising how many horses suffer more or less inconvenience－often more－on
count of the condition of the teeth．When or a moment，consider the anatomy of
nouth，we can readily understand why this The upper jaw is wider than the lower，hence the
rows of teeth are further apart．Both the inner and outer surface of the molar teeth are uneven presenting grooves running the whole length of
the teeth．The motion during nastication being lateral，we can appreciate the fact that the table
or bcaring surfaces of the upper molars become beveled from within outwards and downwards， beveled from within outwards and downwards，
and those of the lower molars from without up－
wards and inwards wards and inwards．This leaves the sharp
points as stated，viz．，on the outer margin of points as stated，viz，，on the outer margin o
the upper，and the inner margin of the lower the urs．＇Those who are not accustomed to ex－ amining horsess mouths will be surprised to notice how many horses，even quite young ones，w
present his condition sulficiently marked to terfere to a greater or less extent with mastic tion．A horse has a full mouth of molars
four years of age，and，on general principles， nay say that his teeth should be dressed once
overy year after that，and it is not uncommon for them to need dressing at an earlier age．Of course，there are exceptions；some young horses
do not require this altention，but there are few that would not be improved by it．It would
not do for the practicing veterinarian to tell his patrons that all their horses soon be classed as a faker．At the same
time，there are few that have reached five years or over，upon whom a dollar each spent for dressing their teeth once every year would not be
money well spent．Slight irregularities of the teeth are not usually sufficient to cause chronic ndigestion，but they interfere to a greater
less extent with mastication，and，as imperfectiy less extent with mastication，and，as imperfectly－
nasticated food，while not necessarily causing disease．does not digest thoroughly，hence the ani－ what he eats．The trouble may not be sufficient to cause visible symptoms during or following
mastication，but an examination of the mouth will reveal many sharp points already referred to， onvince us，will enable the animal to masticate are many so－called
o not understand the operation，and there ar asp can dress teeth properly．This is a mis－ veterinarian in order that he may be able to
dress horses＇teeth properly，but the two usually parently think that，in order to earn their fees and often rasp the bearing surfaces，which，of course，is radically wrong．The bearing surfaces he food betweach them with a lateral motion particles．If these surfaces are made smooth
this grinding cannot be done，and the horse is in a worse state than before Some farmers an
horse－owners．without any instructions or specia knowledge of the suhiect．think that all that i
necessary is to rasp the edges a little，and the the mouth so dressed will usually reveal the two or three molars in each row fairly wel
dressed，but the molars further back not toucher The rompetent veterinary dentist always us
mouth speculum（an instrument by which horse＇s mouth is kent onen at whatever wirt
lesired）．This enables the onerator to insert
any of the teeth are very much too long，he
uses a shears to cut off the projecting portion；
then，with rasps of difierent shapes and designs， Uses a shears
then，with rasps of diferent shapes and designs，
he carefully rasps of just such portions as should be removed，and no more．The ordinary horse－
owner can，with some study and practice，become proficient in the art，but he must spend some
money in purchasing the necessary instruments， and gradually acquire skill by practice，and it On the whole，we think it better to employ a veterinarian，but the work should not be entrusted
to any faker who travels the country as a veteri－
nary dentist，as these are out simply for the money they can make．They have no reputation to maintain，as they seldon visit the same lo－
cality the second time，and，so long as they can get a job，they do not care whether or not
horse requites the operation，nor set whether
is properly performed． is properly performed．


## LIVE STOCK．

Investigating the Bacon Industipy but a satisfactory condition．Whether the send ing of a commission of farmers to Denmark，to is a matter of opinion．It strikes us that the rrst thing to be done is to investigate condition cess of this industry are as far apart，as the twa poles．Adversity has not softened the bitterness hat exists between them．The producer still blames the packer，and the packer still complains
of the producer．Such has been the condition of things for several years past，and in the mean－ tirue the bacon trade has divindled to very small proportions，and an industry that brought in being allowed of do by default Might not something be done to clear the at－ mosphere，and to bring about a better condition
of afuirs，if an independent tribunal were dele－ I affuirs，if an independent tribunal were dele whole situation？I＇ackers claim that they are osing money on the export end of their business， or hogs to keep their establishments running pa． even half their capacity，are higher than the market demand will warrant．In fact，it is re－ ported that one large packing concern is going
out of the export trado altogether，so disastrous has that end of the business been the past few vears，and will in future confine its operations uestions aflecting the export end of the business might well be looked into and reported upon by
competent parties who have no axes to grind． Then comes the producer＇s side of it．He
claims that the high cost of feed prevents hini rom producing hogs at a lower price than the
average paid for several months back．This may be true，but some accurate data bearing on this
question just now would have considerable weight． The comprehensive，painstaking feeding experi－ or two ago，showed that bacon hogs could bear
produced at a much lower cost than the producer claims can be done at the present time．Have con－
ditions governing production changed materially since then These and other mowns onnected some further investication，all tending to dlear
the atmosphere al hit，and to find out just where we stand．The hos－buying end mioht ：en the better of a
little looking into，as well．Is this for．plan of buying ut country points is the packer，in the producer a correct idca of market values？Would where thee would be sold as to thoir quality，and cattle and sheepp are sold，aford the producer a
 party might help to solw some of the difficulties
that handicap the husinn．．．． bight also be looked into ve．bumen monts hroupht into Canada in ans laree quant it ies？Th
they influence price of home products in home mar．
the

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## Notes from Ireland <br> Come Phases of an Export Thalle in

 ot the profitableness of Shorthorn breeling in the United Kingdon in recent years as the extensive
and well－sustained demand from abroad and well－sustained demand from abroad，especial－
ly the Argentine．The go－ahead South American lepublic wants the best of our herds，and lerican Republic wants the best of our herds，and lets no trade，from the home breeder＇s point of view trade，from the home breeder＇s point of view is，
therefore，while it lasts，a most desirable matter， but reflection shows it to be associated with cer－ tain drawbacks．Outstanding in this connection
is the undoubted tendency towards the depletion is the undoubted tendency towards the depletion
of the home land of larye numbers of the best
sires raised，and the retention for service of in－
ferior bulls that should never bo ferior bulls that should never be allowed in－
propagate their specics．The temptation to sell to the enterprising foreigner all the best young
tolls is，of course a keen one，and the immediate prospect of a high price，and the advertisement
which it affords，makes a vers powerful appeal to
can be carried too far，because it is quite possiblemay be done to home nurseries of the breed．The
our British and Irish pedigree stock occurs，the
ioreign demand will no longer be at our command，
and，with pure－bred herds springing un inand，with pure－bred herds springing up in many，
countries throughout the globe，the United King－dom may find its boasted pre－eminence as the
oming somewhat unstable．The suggestion may
Another important aspect of the export trade
which merits attention，as it is a source of fre
esults that follow the administration of thetuberculin test to the same animal before ship－ers are rightly insistent．The Argentine purchas－stock，and a very large number of cases yearlyoccur in which high－priced bulls of different breeds
notablested，and partake of an untimely fate．A13atabten example was that beautiful young sire，
Iator，the champion of the EnglishRoval Show，at nerby，in $1906-a$ bull which inthe show he was sold at the long figure of
£3，foo，but he had only been landed at Iluenos
in this respect，as a very exnerially notorious
breder，Mr．Martinez de Hoz，recently stated thetbrceder，Mr．Martinez de Hoz，recently stated that
over 60 per cent．of the Scottish animals im－ported into the Argentine react．On the other
that our genial climate enables stock to be keptin more healthy conditions out in the open air．
helief，as one who had bought more Irish stockor shipment than any ougher expore Irish stock
al hat hays found that the animals from Ireland stoodthe test as well as，if not better than cattle inRe this as it may，disheartening must be the
oxperience of any exporter whose selection fails
to the test in the Argentine．So acute has the
are implied as to the care with which，or condi－
administer the test，the parties interested are
that will rid the trade for all time of the riskireat Ascordingly，the Shorthorn Society of
the Argentine and asked that body to confer withstation，in which the Argentine shall share con－It is prop the testing of animals prior to export．
Ithie come to，under which all animals that success－is reacherd．There should he no difficulty in the
wirl and the results are to batisfac－
armand it is gratifying to notice thatof whis is antorded at puhlic sales throughout the mitr．nt which the offer of a bull，concerning
in－
Mut
under their scheme, and thus the good work goes on. At all reasonable costs,
purchasers must be secured.
"emerald ISLE."

Deplorable State of Bacon Business Editor "The Farmer's Advocate": Replying to your inquiry as to my opinion of
the condition of the swine industry in Canada at the present time, I believe that the supply of hogs is very much less than any of the reports that are gathered
From information that I am able to gather through doing business with swine-breeders in all parts of the Dominion, 1 am forced to the con-
clusion that there are now fewer hogs in the clusion that there are now any time during the hands of farmers than at any the during the last ten or fifteen years, and the shortage is
likely to be still greater, as the average farmer has not been making uny effort to increase his
breeding stock, but, on the other hand, he has breeding stock, but, on the other hand, he has
been disposing of his brood sows. To say the least, our swine industry is at present in a
most deplorable condition. I an quite aware
and that feeding hogs has not been very profitable
during the last two years, owing to the high prices of feed grains, but we must not lose sight and appear to be taking the place of other classes of meats. With the conditions of farming in
Canada, and particularly in Ontario, the raising Canada, and particularly in Ontario, the raising
of pigs seems to fit in well. A lot of inferior grains and vegetables can be converted into a goorl prolit by being fed to pigs, antl, when dairying is carried on, pigs are an absotute necessity.
After all, it is the law of a a erages that governs the business man's profits, and the farmer who has maintained his herd of breeding hogs through the period of low prices, as well as the high, is exports of bacon to Great Britain have fallen off to a great extent, and we seem to be losing that trade which we have been resting so much hope upon. The time has arrived when we should contrade. I ain forced to the conclusion that there must be something wrong with our system of feeding or marketing our hogs, when we allow the
Danes to so outstrip us in the British market. Our Government would certainly be doing a wise act in sending a commission of practical men to sturly out the problems that are handicapping
our swine inductry if the Danish furmer has a our swine industry. If the manish his hogs than we, we should know it, and a commission of this kind would he the best means of locating the iault. We ought to produce pork, cheaper than
the Danish farmer, as our coarse crains are cheaper, and other conditions ought to be just as fay er, and other conditions ought to be just as fay
orable.
J. F. BRETHOUR. Brant Co.. Ont.

Sheep as a Side Line
Editor "The Farmer's Advocate ": as a side line, I give my experience with a small flock. In December, 1906, I bought three old ewes and one small lamb from a good flock of cross-bred Blackfaces. I bought the ewes for to an lamb was very poor, as its mother had not enough milk, so poor, as its mother had not enough mik, so well, and has made a good ewe, worth $\$ 14$. The three ewes lambed late in April; one ewe was hurt by a sow, and had two dead lambs. I sold this ewe to a drover in June for $\$ 10$. The other two had three lambis. In January following
bought at a sale two ewes for $\$ 18$. These tw bought at a sale two ewes for $\$ 18$. These two
lambed in February, three lambs, one of which
sold sold, at six weeks old, to a drover for $\$ 4.75$, and
the mother was sold in June for $\$ 8.50$. In April I housht two Leicesters, one ewe and one lamb.
for $\$ 16$. These lambed in May, three lambs My Tr sit. These lambed in May, three lambs. My
trouble began from the start, as I only had an
old harn half full of hay and two sows running loose on harn floor, so I sold some hay, and gav
the sheep half of a mow the sheep half of a mow. I had a good supply.
of turnips, which thes were fed, and a few oats and timothy hay, as I had no dover hay. In snring they were turned on the orchard, and also Chanced to a rough picce of land no good for
ancthine much. In the fall they had the libert. to roath it will.
 $\$ 28.2-\quad$ \& fleeres, 2 T., per in $\$ 9.75$, total. 852 : par. Year. + wo lambs raised; thus they were grow.
ing int money and hetter stock. Now. I think
this is a good per cent. for the capital invested; a yield of 94 bushels of shelled corn per acre, and and seeing that sheep will live on rough land, the other but 58 bushels, possibly due to the seed and little care, and also enrich the soil, they are in one case coming from ears which had been
one of our best investments. We also turn our fertilized by pollen from barren stalks in the row, weeds into money ; this seems their peculiar dish. or grown on imperfectly-developed stalks.
In the winter of 1908 I bought three more The scoop-shovel system of seed selection
eives. I raised 11 lambs. The returns for lambs should be relegated to the scrap-heap of discarded ewes. I raised 11 lambs. The returns for lambs should be relegated to the scrap-heap of discarded
sold, and the wool, brought me $\$ 11$. The wool methods. Men who have a seed-corn plot, or in sold, and the wool, brought me $\$ 71$. The wool methods. Men who have a seed-corn plot, or in
was sold at 14 cents per lb.; lambs were also the autumn have chosen from the field crop the
down in price.
OLLD COUNTIY JOE. best and most uniform of the well-ripened ears,
dore

## THE FARM.

Growing More and Better Corn. lsy means of improved seed and better cultural dian corn crop. The ideal which the progressive
grower has before him is to produce the largest nossible crop of well-matured stalks and ears, Whether for, dry fodder and husking, or for the
silo. Time was when one grower kept his eye solely on the corn crib, and another on the silo; one planning for ears, the other for stalks. The modern corn-grower aims, not just at a crib filled
with big ears, or a silo packed with a compound, the product of a jungle of verdant stalks and leaves. There must be a
to deyelon and sustain the later and of cob and kernel in order to produce the niaximum feeding value. Again and again, at the Essex (Ont.) called attention to the wisdom of seeking the happy medium, in which lies the secret of conenough, in the selection of seed corn, Nor is it that this or that variety or type matured in the "banana belt." Has it matured in my township, or in one where the conditions are similar ? ears uniform in sure that it will? Are the ward and visible signs of inward life and growth ? Whem the kernels germinate? Have I tested field or seed-pls a perfect ear, but is it from a are like it? Has it been bred long enough so that the desirable characteristics I desire will
a striking: variation.
Huch Coatsworth, of Kingsville, reported a
test of planting equally good-looking ears of the same variety (TReid's Yellow llent), hut from different seed-plot rows in the same field. One gave


Duke of Malton (imp.) [7768] (12947)

one of your most valuable crops for enriching and it is necessary to move the silage from the in mellowing the soil,", observed Prof. C. A: Zavitz side of door, and shove the door inward.
at the Corn-growers' Meeting, in Essex County.
On the left side of the roof of this silo will be "We don't grow half enough of it," concurred one of the auditors.
Tests were quoted showing 50 per cent. greater crops of oats, barley and mixed grains from a
clover compared with a timothy sod. It can be clover compared with a timothy sod. Aood many apply the heavy coat of manure for the fall wheat
and then seed down with clover and timothy. After taking off a crop or two, corn follows on the sod, plowed in spring, without further manuring, unless on light ridges, if there are such
in the field. Some manure grain-stubble land in the field. Some manure grain-stubble land
and plow in fall, using the disk harrow in spring and plow in fall, using the disk harrow in spring. pears to be on the increase. R. A. Bigger, of than in fall. J. O. Duke, of Ruthven, put tile than in fall. 1 10th to 24th of May, and, at the last cultivation, in August, seeded between the rows with red years, and believed it could be done for twenty years, and obtain as good a crop at last as at
the first. All agreed as to the need of a mellow the first. Some sow the clover with the small broadcast seeder that turns with a crank, cover-
ing three rows at a time by walking in the middle row. Use plenty of seed. Others scatter tive seed rion, and say there is nearly always sufficient moisture below to insure a catch which makes 5 or 6 inches growth that fall, and more again in next corn crop. Some use the marker and hand planter, but larger growers prefer the check row, two-horse planter (costing about \$45), which drops 3 to 4 kernels in hills 3 ft. 8 in. apart
each way, or would drill in, if desired. But the best practice is the hill method, and Prof. Zavitz's tests showed one ton more crop per acr from hills than drills, both stalks and grain bein used, giving a light sweep as the corn comes up Mr. Bigger favored deeper cultivation at first, and shallower as the season went on, not to disturb root-grow. cultivator. The two-horse cultivator shovel-plow cultivator. The two-horse culter till the corn is as high as the horses backs, if pos-
sible. For the strengthening of the brace-roots, sible. For the strengthening of the brace-roots,
Prof. Klinck suggested a trial, at last cultivation, of throwing up soil against hills or rows of corn, as it was important to get a corn that

Plan of Monolithic Concrete Silo. [Note.-The plan of silo herein illustrated and described was prepared for " The Farmer's Advocate" by Henry Pocock, whose article on "Sealed Air-tight Cement-block Siloes, pubished interest. 1908 Christmas Number, aroused much interest. machinery, and is in personal touch with cement silo-building throughout Canada, the firm with which he is connected being the sole manufacturers of the adjustable steel silo curbs for building sattered round monolithic concrete siloes. Over one hundred and fifty sets of these curbs are now
in operation, being used for the building of many in operation, being used for the buil
thousands of round concrete siloes.]

The plan of silo illustrated herewith is that of a size which is much in demand. It is 35 x
14 feet, inside dimensions. The design and 14 feet, inside dimensions. The
iornm meet all ordinary requirements. The size lornt meet all ordinary reque required, but the
may be added or reduced, as rem
system of construction will meet every requiresystem of the information herein give
oubt, serve to answer many inquiries.
This silo is built with the adjustable silo curbs, which build a circular silo any size, from 5 feet up to 30 feet, according to the number of
sheets which are in the curb. sheets which are in the curb.
One very important feature about this silo is that the walls are perfectly vertical on the in-
side, allowing the free settlement of the silage; side, allowing the free settlement of the silage; but the outside walls of the silo are tapered; any
desired taper can be given. The walls shown in this plan are one foot
thick at the base, and gradually reduce in thickthick at the base, and gradually reduce in thickness toward the top. At the highest point the
walls are only 6 inches thick. The plan reprewalls are only 6 inches thick. The plan repre-
sents a silo with a portion cut a way so as to sents a siction of the walls, a part of the insidl.
show a section
of the silo, position of doors, thickness of floors, size of foundation, depth below ground, distance The doors in the silo are 2 feet by 3 feet, and
The apart. No casing is required to support A feet apart. No casing is required to support the door, the concrete heing bevelled around the
edges of door opening. The doors have the sam.

On the left side of the roof of this silo will be
noticed a small pediment. On the front of this noticed a small pediment. on the front. This is a door, which is made to open When the feeder
door is used in filling the silo. Wher desires to enter the silo the first time after fill-
ing, he does so by entering this door. He then ing, he does so by entering this door. He the opens one of the trapdoors on the inside at the top, making a direct passage to the ced-rom
adjoining, the silo afterwards being entered from the feed-room.
A silo built of the size shown on this plan, which is 14 feet in diameter, and 35 feet high
will hold one hundred and fifty tons of silage will hold seventy-five tons of silage.
AMOUNT OF MATERIAL AND LABOR RE-
The silo shown in this plan, complete with The silo shown in this plan, complete, gravel, and 49 barrels of cement, and can be erected in nine days by four men, if material is
mixed by hand, one day being allowed for laying out and putting in foundations. With the adjustahle curbs, 5 feet in height of wall is built each day, or a course of 5 feet completely around
the silo each day, no matter what the size of silo may be. This silo will also require 1,000 silo may be. This silo "ting.


Sectional Diagram of Monolithic Silo.
A silo 12 feet in diameter and 30 feet high will require 37 yards of gravel and 36
barrels oi cement, and will require for reinforcing 500 pounds iron. It can be erected in seven
days by three men. A silo 12 feet by 30 feet days hy seventy-five tons of silage. only having half the capacity of the 14-foot, takes over two-thirds the material to build, but some farmers would rather have two small siloes
than one large one, preferring to use one silo for than one large one, preferring to use one silo fo
summer, and the other for winter. summer, and
Another popular style of concrete silo is that built from concrete blocks, under what is known as the sealed, air-tight system, illustrated in the
Christmas Number of ". 'The Farmer's Advocate." It will be noted that the article on concreteblock siloes shows a continuous door from top
to botiom. The same style of door may he used with the solid concrete siloes, or the door
described in this plan may be used in the sealed, air-tight, concrete-block silo. The concrete-block silo, as mentioned, will cost a little more to (1) wect the masonry H. POCOC'K. The man "ho unflerstands the corn plant from
perm tul a perimet stalk and car that will

Save the Pastures. As the season approaches when farmers who re short of feed for their stock will think of thrning them out to grass, a word of counsel on
this question may not be out of place. The mistake is commonly made of letting animals on pasture fields before the grass has had a good start, with the result that the grass is short the whole
summer: while if given time to make considersummer; while, if biven time to make considerable growth before being stocked, the meadows full bite throughout the season, and to withstand
a period of drouth, should such occur at any u period of drouth, should such occur at any
time. The early growth of grass is soft and washy, and, while stimulating nilk secretion, is of only inoderate nutritive quality, unless supple-
mented by some hay or other fodder, and there mented by some in more ways than one in con may be econony in mores until they have had a good start, even though one has to pay out cash for purchased feed to give the grass time to get a good try, cattle and horses should be kept off the pastures until about the 24th of May, in order to do the fields justice. And even then a feed of hay or grain, or both, ing turned on the young grass, will serve a good purpose in saving the pastures and preventing scours. Sheep and pigs may generally, a
month earlier, be allowed the run of lanes, and month earlier, be allowed the run of lanes and
of fields that are to be spring-plowed, but should be housed at night for some time, and given dry feed and roots, if on hand. This question is worthy of more careful consideration than is
generally given it by farmers, and we are confident that observance of the admonition here given will prove profitable alike in the ultimate

Farmers Selling Low-grade Seed Practices tending to defeat the purpose of the
Seed Control Act," in protecting the farmer. are reported as being prevalent in some sections
of Canada, even among farmers themselves only this, but also the regulations in the Act,
are being violated. Seedsmen
justly protest against farmers
who produce grass and clover
seeds. selling them to noigh.

seeds, selling them to neigh-
bors, when the standard i
lower than the law allows ther lower than
to handie.

Farmers seem to forget that hey are liable under the Seed tion is that the farmer is not
obliged to have "each and
every receptacle, package, sack
or bag containing such seeds
or a label secur
thure or a label securely attached
thereto, marhed in a plain and
indelible manner, indelible manner,", show ing
name and address of seller, kind of sed
containedi, and common names of weed seeds
Instances are known
 of seeds from growers because of the presence of
ioul seeds, and where the farmer then sold the ioul seeds, and where the farmer then sold the
same seed to his neighbors. Seed represented as being number one, must not contain more than
nee of the following weed seeds per 1,500 of the seed represented: Wild Mustard, Tumbling Mus-
tard, Hare's-ear Mustard, Ball Mustard, Field
Pennycress (Stinkweed or French Weed). Wild ennycress (Stinkweed or French Weed), Wild
'ats, Bindweed, Perennial Sow Thistle, Ragweed,
'urple Cockle, Cow Cockle, Orange Hawkweed Purple Cockle, Cow Cockle, Orange Hawkweed
(Paint Brush), Ergot of Rye (Sclerotia), White
 Weed, Ribgrass (English Plantain or Buckhorn).
In addition, seed of first Puality, In addition, seed of first quality, offered for sale,
inust "c contain, out of every one hundred seeds, must " contain, out of every one hundred seeds,
not less than ninety-nine seeds of the kind or
kinds represented or seds kinds represented, or seeds of other useful and
harmless grasses and clovers, of which ninetyFeeds ninety must be germinable. section applies to all :" "No person shall sell or Mifer, expose or have in his possession for sale,
for the purpose of seeding in Canada, any seeds timothy, alsike or red clover, or any mixture voels named in this seeds, if the seeds of the uroportion than five to one thousand of the seed Fwery intelligent farmer realizes that only lown farming pays, and that, in order to keep introducing the pests through grain, grass or armer. the lot stipulates that complaint must be made within siven days The section relating to this reads: "Any sample of seeds taken from any
thend found or suspected to be sold in violation of
then

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formarded to an official seed analyst: (a) From tion with the business that has not been brought
fored that are sold in sealed packages, sacks, before us by any of the previous writers, and soeds that are sold in sealed packages, sacks bags, or receptacles, (b) from seeds that are no
seal thereon, and and
and seald in sealed packages, sacks, bags or recep
oold
hacles, within seven lays from the date on whinh
then acles, within sed into the personal possessio the secame the property or the be drawn in
and bimples for official analysis are to
sio Sumples for offcial anenor or two disinterested
he peresene of the ver forwarded with a certified state
hes and itnesses, vendor, and particurch of sese of seed would do wel To examine it carefully at the time of purchase. to exare is ground for complaint, write at once
If there Seod Commissioner, Ottawa, Ont. It is Io to se Seed Commissioner, Ottaw, and do every-
his duty to make investigation, and
dit his duty to make nvect the purchaser from un-
thing possible to prote his fields with foul seeds, thing possmination of his fields with foul seeds,
due contaminstances warrant, to prosecute the and, if circumstance
and, ior of such sed.
vendorm exceptions to the Act,
Four conditions form Four conationserson growing or selling seeds
viz. (a) Any pers
for the purpose of food; (b) any person selling seds
 fore being offered for sat tor seedeang purpore being
seed held in storage, to be reclesed marked anot

 ing purposes, comes under the Act, and one the past fevy
are liable to prosecution. During the stock sold are
weeks samples have been collected from stock by farmers, and if ters are liable to prosecution
the act, the offenders and the act, the oftenders areadian agriculture, those
In the interests of Canaty In the who are guilty of selling low-grade seed
farmors be dealt with just as promptly as they
should should be dealt with just as pro
would have other vendors trented.

Information Given and Asked.
Ed am glad that so many have taken part in the discussion on the manuracure to us through
of the maple tree, as intimated to "The Farmer's Advocate," by Frontenac Sub-
"criber a few weeks ago. I am also pleased scriber, a few weeks age in such a valuable and that it is being discusseas "The Farmer's Advo-widely-circulated pade sysup and sugar from the maple for over forty yelater with the flat pans, shet-iron boilers, and later with ther the first


 ncreased, I changed it for a larger one,
nd tapped 1.100 trees; and in an ordinary year
and
 a quantity of sugar. We get
for our syrup (the purchaser pays for the cans), or our syrup ter
and 10 cents per pound for sugar. and
The evaporator takes in the cold sap at one end, and sends out the finished product ar ma-
other-no second handling as ath other and chines. I have a galvanize a rubber hose which
which holds 40 pails, with and we empty into a 2 tank inside boiling-house, from neighors have dis
way outside. Some of ours neigd renlaced then way outsice Galvanized tanks, and replaced them
carded their with tin ones. I have used the galvanized tanks for eight years, and nave chorougly when the I clean them and dry them thom on their edge in
season is over, and turn them season is over, and to all the work about the
my sugar house. camp myself, and two boys gather the sap it goes a team. The sap is stas strained again when w draw it onf in syrup. Now, it is with a view to learring indurty that
this important and money-making industrent. I amp writing this to would like to hear from your
In the first place. I wold Dundas Co. correspondent. He says ter in or evaporator that you cannot draw it should be. Would like to know how much he draws of every five minutes. I draw of about every three-quat
 ing 13 pounds 2 ounces to the gallon , use thermometer for testing when it is perth County llso, would like to hear from your Perth county
nan, as to where he sells his syrup ate
is Man, as to wher Lanark County is noted for its



 Talace at the St. Louis
There is one very important thing in connec.

THE FARMER'S ADVOCATE etore is by any of sediment, or hard substance which
that is the gathers in the bottom of the finishing pan, which accumuraces changing the pans often prevents it to quite an extent. Perhaps some of the readers of "The Farmer's Advocate " can throw some ligh Lanark Co, ont.

## The Man Behind the Plow.

The following verses, though probably familia a considerable proportion of our readers, the request of an old subscriten, are republishe in "The Farmer's Advocato"
"解 as those hifalutin My chaps it may be husky, and a little loud, per haps. or 1 have been a-plowin win and you They keep me pretty busy with my " Git up But if you pay attention, I have just a word to
shout a great mistake you make, and do it every
In deying out your praises, I want to tell you
or often you forget the man that walks behind talk about your learned men, your wit and wisdom rare; your painters, they get praises overywhere Chey're well enough to make a show, but will you
tell me how he world would ever do without the man behind

## Beneflits of Seed Fairs

 st-prize Easay in competition for premium offered by Convention, held at SummersidThat the inauguration of seed fairs has been great value to the farmers of Prince Edwa fact that the future alone can fully prove. That they are more instructive and far-reaching than
our exhibitions, will be generally admitted, and ur exhibitions, will be generare a this year by that they are to be mades, and the judges giving their reasons for placing their awards, ill a apin the right direction, and one that will be approved of by everyone that agether a large body of farmers at a time of the year when they can afford to spend a day or two from the farm te
talk over farming in all its phases, exchange talk over farming in ang derive something new from the lectures, get new life and vim in them, and then go home determined to improve along some lines that they
In the second place, our fair is held at a time
In the second place, our fair is held at a the coming seed time is beginning to be seriously thought about, and when we have an opportunity We can compare what we have in certain lines with what others are producing, and ask ourselves the ques tion, "Is our seed up farmer is led to procur is not, the progressive farmer is lod
the best, and thus increase his profits the next the best, and
harvest.
Then, there Then, there is the benefit of competition. The interest it a wakens in those who take part is farm. Always allow them to engage in the com petition, and the result cannot be measured in dollars and cents. Some make a great but bene-


The Man Behind the Plow.

## .

lis very nice to go to school to learn to read
and write,
Tis nicer still to dress up fine and sport around at night. beat, me what you're going to do for some thing good to eat? ing is too coarse, horse ; My face is red, my hand
allow, But don't you be too quick to spurn the man be your great inventions, I'm glad you're get ting smart; like to t.
heart. But 'twill never touch the stomach of a rea and so I call attention to a kind of thing (hat Then, hovs. don't be too anxious to leave the
$\qquad$
$\qquad$
world must bow , hind the plow
is is all right, but bene-
fit received in other oounts most.
ways s .
Last year I competed Last year I competed
in many classes, and in in many classes, and in
some $I$ won, and
others failed. To inlustrate,
thet J
graded that J graded some finally picked it; still, I did not get a prize.
But I got what is far But I got what is crop
better-the best crop better-ch, plump wheat
of clean,
that we ever harvested. If farmers would grade their grain, and pick
it, if necenssary, they it, if necenssary
would not need to import wheat at $\$ 1.50$ to
$\$ 2.00$ per bushel Then, there is the
benefit of seed selecbencfit of seed selec-
tion. What has been done along those ines is being vividly pointe
out, and it is marvel lous what has been ac-
complished. When we complished. When we
see and handle the see and handoe care-
grain grown from care
ful selection year after year, the lesson comes
home to us with greater force than pen can give. Torce than per begins to
The farmer bectish this, why think. If someone eise can accomphe when warmers hought any kind of seed was good enough, but how the best is none too good. One seed-grower has said that his oats used to weigh 38 pounds to the bushel when recleaned, but now they welgh 12 pounds from the machine. And instruction at seed fairs, etc. Again, there is the advantage of hringing our eed grain to the notice of the public, and at the first fair held in our (Messrs. Fuller and Moore) say that they were pleased to be able to say that, in point of quality, the seed shown was the best that they hight examined, known yet, were it not for our seed fair. It must be admitted that this knowledge is worth a lot to us. Since that fair, our we keep the quality up, it will be in still greater demand. It also brings the buyer and seller to gether. The men with the good seed are brough out in the light, where we all can see them. ptc. How would it do to say something about the bad weed seeds that we get some pointers on at the fair? The revelations that have been year the weed-seed family from one bushel of grain were placed on exhibition ; also, from one pound of clover seed, and timothy seed, secured at different points. I think the object-losson
was a good one. It showed us the danger that
is threatening us ; that our Island, once free fro noxious weeds, will soon be in the grasp of these our worst enemies, unless we give heed to every note of warning and keep our seedsmen to the
letter of the law. Last, but not least, is the Household-
science Department of the fair. That ap science Department of the fair. That ap-
peals to our "appetite "-oh, no! I was gopeals to our "appetite "oh, no It shows the ing to say "our finer senses." It shows the
gentle sex at their best in the culinary art ! Here competition also counts, and the object-lesso furnished must be helpful. It also gives our lady friends an opportunity of hearing talks on th difingent subjects very essential in every home. These are a few of the many benefits derived
from the seed fair, which are growing in popufrom the seed fair, which are growing in popu-
larity and in benefits to all concerned since their inauguration, a few years ago. I hope that your valuable paper may long continue to be the farmer's true Advocate, and also to encour
age our seed fairs.
A. E. MacLEAN. age our seed fairs.
Prince Co., P. E.

## Value of Seed Faips

Second-prize Essay for premlum offered by "The Farm
Summerside, P. E. I., March 10-12. and the smaller seeds are of recent growth. They have been instituted for the purpose of encouraging and promoting the production of a superio
quality of grain for seed purposes only. As an educator for the farmer, these fairs have been a factor of immense importance, especially to thos
who have helped to make the fairs a success who have helped to make the fairs a success, by
showing samples of grain, and in this way caus ing a friendly rivalry. Also, by observing close ing a friendy rivairy. Also, by observing che de-
ly. the farmer soon becomes awake to any de in his own exhibit, or in that of his ficiency
neighbor
neighbor. we consider that, at the Fair of 1908
When we held in Summerside, P. E. I., several hundreds o entries were made in seeds, it is evident that these exhibitors would receive an object-lesson
not soon to be forgotten. Then, again, large numbers of our farmers make it a point to visit these fairs, receiving valuable information in the production and selection of grain for seed pur-
poses: also, by coming in contact with one an other, and exchanging views thereon. Then we have addresses fiven by members of the Local Legislature, prominent farmers, and others, deal-
ing with agricultural topics of importance to the people. The fairs held in recent years have been continued for two days, and the present year three days, giving ample time for the people to attend. Large numbers of armers have taken the success of the fair. Another very important feature of these fairs is the advantage civen to visitors of buying seed
grain from exhibitors, as each exhibitor is regrain from exhibitors, as each exhibitor is re
quired to have in reserve a quantity of seed for sale equal in quality to that which he has on ex-
hibition. T am of the opinion that this privilege hihition. T am of the opinion that this privilege of buying high-class seed grain is, pre-eminently
the grandest feature of the fair, for, as "like be gets like." so the man who sows pure seed of
known excellence will also reap a superior article known excellence will also reap a superior article,
and also an increased number of bushels per acre
ant this is not If he is a careful farmer, painstaking in sowing, harvesting, threshing and cleaning, he will have produced grain suitable for seed nurposes
Then there is, in connection with the Fair, a Household-science Department, in which prizes course the ladies are particularly interested Now. from the standpoint of a Prince Fdward Ts
land farmer who has attended each of these an nual fairs (the first held in Charlottetown, in 1903), and having noticed closelv the progress
made in the quality and number of cxhinits, als? made in the quality and number of in attendance year alter year, the alifed success. G. H. Clark, Seed Commissioner, at Nttawa,
speaking at the Amherst Winter Fair, said " "The seed fair held last vear at Summerside was, t he
lifeve. the best of its kind ever held in America." Mr. Clark is an authority on seeds and seed fairs
and knows what he is talking nbout. More than and second fairs held in Charlottetown, and di And second fairs held in chariotmeown, and
the judging, also giving addresses on the impor
tance of producing high-class seed. making the tance of producing high-class seed. making the
statement that our Province was well adapter for
the raising of grain for seed purposes, and that we should he sumnl-ing Nova, Sontia and New their supplies from Ontario, Within the past
two years we have sold large quantities of oat:
for cend nurnoses in the Moritime Provinces, alst or ceed Durnoses in the Mnritime Provinces, glen
in the far West-and we. the smallest Province it
he chenn ons

Cost of Conerete Silo. Editor "' The Farmer's Advoca Funclosed find photo and description of sile built f
same.

| Contract price of building $\ldots \ldots \ldots .$. | $\$ 0.0 n$ |
| :--- | :--- | ---: |
| $28 \frac{1}{2}$ Barrels cement, at $\$ 1.93 \ldots \ldots$ | 52.15 |
| 40 Yards gravel, at $15 \ldots \ldots \ldots \ldots$ | 6.00 |
| 12 Yards stone, at 15 c |  |
| 150 Lbs. steel, at $\$ 2.50$ per cwt. | 1.80 |

$\qquad$
n building this silo, which is 30 feet high, and 12 ft .8 in . in diameter, with walls 11 inches thick, a window frame was placed in wall level with ground, and concrete material was thrown oisted by horse and rope, same as earth is


Mr. McKenzie's Silo
gerous and unnecessary scaffolding, all the scaiand hoisted weing two planks thrown across rings After silo was finished, this frame was re-
emoved, and hole filled up same as wall. Silage is keeping perfectly, and is as gooll at wall as at the inside, and I must say that 1 um well satis-
fied with it, as this is my first exnerience with silage. ALEX. MacKENZIF

## How Deep to Bore Maples.

## Editor " The Farmer's Advocate" : We can read articles by the

 about this time, on how deep to bore the maple trees for the best flow of sap. We have always used the Eureka sap spout, and never bore deeperthan one and one-half inches in the larrest trees and smaller trees something less. I I am trying some Grimm spouts (No. 2) this year, and used a 7 -16-inch bit for boring the holes, but that faves the wire that the buckets hang on too far
from the tree, allowing the buckets to wobble too much. It seems to me that $\frac{1}{2}$-inch bit would be better for boring the holes. I think "Euphemia Wanderer "" must have a very poor lot of trees Mor making syrup from, and 1 also think $A$. for sap, for there are more people who make less than one gallon for every two trees than there are one-half gallon per tree. and we have more than large lot of buckets, 170 of them have an extral size, 100 hold three imperial gallons fach, and Always gather twice a day in a coonl run, and run to waste longer than necessary. We read a good deal in the papers of the day about r... never seen anything, however, on how to stop
making syrup. We began about fifteen wears aco byetting ordinary corks at the druggist's, at twenty cents per hundred, and drivine them in
even with the wood, and it is surprisine how puickly they will heal over Another benefit to then, after you have nuit the hush. your and trees piece of maple with the aroun-over cork, and woul the very small streak of dars done the wood by old hore We sell our syrup at 81 n. mer callon
Oxford INote.-The billet of wond sent wa hy Wr we frech and bright. neatle, with then witheres still atternal appearance Splitting raceals smoct haty


Unlimited Market for First-clas Sypup.
Editor "The Farmer's Advocate":
In the issue of February 25th, of your valuable paper, I notice Frontenac Subscriber writes able paper, 1 notice rontenac Subscriber writes,
inviting some opinions and experiences from others engaged in making maple syrup. We have been at this work for eleven seasons. 600 buciets. We tap as soon as we think wit sap is likely to run freely. It is best to be on tapping fresll. We tap only once : preserve the reamer or anything of that sort, as we never got enough good syrup to pay for the extra labor.
We use (irimm spouts (No, 1), without hooks. as our buckets were punched below the rim for
the record spout, the first we used. The holes were scarcely large enough to let the buckets on
the new spouts, but, by turning the bucket tom-end-up, and forcing it onto the bucket botthe tree was tapped, it dropped down, and was
secure until turned to take it off at end of season. We use a cover made of a sheet of tin a little larger than the top of tuse locket, with piece of lath on each side just long enough to
fit inside of the bucket tight, to keep the lid in place; " little thicker stick, I think, would be hetter; iasten with lath nails. These tin plates on and painted them ourselves. They are red on one side. and white on the other; and reversible, so that they are turned as they are emptied, and ers do not lie too close to the bucket to shut out
the air, as they are generally more or less warped, but answer the purpose well, or less are
easily stored, and cheap. They stay in and pretty well ; sometimes a high wind will blow of a few on outside of the bush.
We use a three-barrel tank on a sleigh or wagon, on a good strong platform. The wagon is low, broad wheels. The sap is stored in ver barrel tank at the camp, placed a little higher than the top of the evaporator, and is conducted to the evaporator by a pipe and hose, and at
tached to a float, which regulates the denth in the pans as desired. The sap flows so freely for a day or two each
season that we cannot make it into syrup fast enough: then we run it of light, at about 190 degrees through the day, and at night add it in-
to the evaporator and finish it off. By this means we save a lot of waste. We burn soft coal with the wood, and find it keeps up a more
regular heat and does faster and better work than all wood. We use a few drops of wweet cream occasionally to keep the sap from rolling too high. Cleanse the syrup by straining through
felt strainers. We have our syrun weigh 13 lbs. 2 ozs., as nearly as possible. Only offer the put it in the stores for sale or take trade, and cannot supply the demand. Ship sometimes when We use imperial cans of 1 gal., 2 gal. and 5 Maple Capacity," Tise a label guaranteeing it "Pure buckets. This is not Subscriber claims he gets, but compares very well measure. Many of our neighbors still the wine out sucar kettles; some have got pans. They put out a varied quality of syrup. The most
common fault, I think, is that it is too light in
weight. I heard a mirch Iy express the wish that there would not be so syrup that came in was very unsatisfactory; much t or Was too thin, but they expected him to take rup. if he could only dedend of pounds of good I think, if those merchants would prepare to test not consiller right, it would improve the trade There are some makers who, when they can't sell
hy private sale, just trade it out at the store and are prefty sure of a market there. Their
zoods are not labelled, and there is no warranty Th. imperial should be the only measure handhed hut we find some selling by the old or wine
thrasure, and are getting as much, and sometimes Wrine for their conds than those selling the imand ".." hear of new bans going out from our tin 24 a

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1907, would furnish much valuable information those making these articles,
lling the goods in the trade ding
Huron Co., Ont

Fapming in Ontario a Profitable Business.
Editor "The Farmer's Advacate": Uneasiness are still looking wistfully over our
Their eyes are justified
Western fields, and, no doubt, they are Western fields, and, no not in doing so, athey are, although seemingly they
cially, where they are "well in a few cascs, they have a small mort-
because, gage against the place, and are not and start afresh
it, they are anxious to sell out and it, they are west. But who is to blame for in the great
this? Nobody but themselves, in most cases There are cases where ill-health forces them io do so, but when a man has ins ontario, he would not able to make a start in or going West, although be doilg make riches faster there; but he has not
he will the same comfort he has in Ontario, and what is
the use of riches without a little comfort alone the use of riches without a little comfort along
with it ? Farmers of Ontario are not fuming and with it? Nver their crops to the same extent as our Western friends. who are kept in a state
oundiety, esperially as harvest approaches, on ac anxiety, especially as harvest ap western farmers, as
count of frost and hail. Our count of frost and hail. wait until the second year for a crop, the first year whercas, in Ontario, in old pasture fields, never after the first plowing After taking into consideration, also, the water sumply, and accommodation: hesides bringine in their grain, in some cases. a
all real sunshine. Another thine we must not Western Provinces, mixed farming is becomin more general, for the simple peasol thith weeds in places.

In the first place, a good rotation on every sary. A rotation we would call good is the
three or four year rotation, which includes clover, followed by roots, corn, etc,. and the following year grain, seeded down again with clover. It it has so often been brought before the (where it can be grown), must go hand in hand in order to make farming a really paving investment.
many farmers in Bruce and other counties are
mot practicing a good rotation at present? Not
many, I presume. Where a rotation is not pracmany, i presume.
ticed as is the case nearly every farm in this
vicinity, grain crops are grown year after year, vicinity, grain crops are grown year after yoar,
until the soil is practically useless for another that the farmer considers putting in a root crop timothy begins to " run out," when it is again worn-out land, difficulty in getting a good cat know, from observation, of cases where a wornout stubble is plowed thelieve the resulting crop pays for the plowing, not conking into constitera a tion the other workiously corn and roots, which
clean, rich field, previous was
crop. This is where the silo fits in well, as corn as well as roots, are a good cleaning crop silage
where corn is grown on a large scale, for same extent. rotation it is not necessary to hav quarter of the farm in roots and corn, 20 , front, where possible, is occupied as soiling and nastur
land The rest of the farm can be modified, in land the rest of the carn be grown, and corn
order that more grain can bestery
and roonts can occupy one-eighth, if necessary, the acreage left. This can be done by growing
peac or mixed crop for cutting green on the
cleanust half. for the root and corn crop peas or " mixed crop tor root and corn crop
cleannest half. for the romber
When this rotation is practiced for a number yoars. the corn and ront crop can he grown
alternate sides of the field every four years, a tomplat one. fall-ploned will par one.
that is ribhed or fall-plowed will be
work up to better advantage if it is run
th heavy drag-harrows several days hefore


cxtent that it is quite noticeable afterwards, eve
on the following grass crops, unless gone, over
one twice, which involves extra time and lator. The
cultivator does equally as well on sod, providing the plowing is well done.
For corn and potators, I have heard that it is
a better plan to leave the sod until spring, and a better plan to leave the sod until spring, and manure it either in winter or early spring,
ing the clover and grass to grow up through, ing the clover and grass to grow up planting. 1 believe this is all right, but where is the clover for turning under going to come in, unless a three
year rotation is practiced? For a root crop year rotation is me ask, which is the better plan: to plow a good second growth of clover early in the fall, afterwards spreading on the manure, either in fall, winter, or early spring, and giving the por-
tion not done in the fall previous a very light turn-under as early as possible in spring, and later thoroughly incorporating with the surface soil by deep cultivation with the cultivator previpracticed in this part, which T shall explain. I think a trial of the former will commend itself. In this vicinity, the root ground, which 1 have already told you, is practically unfit for further
grain crops, which is sometimes not even fallplowed, is given a fair coat of manure, almost the first thing, about the time of sowing, and is then plowed and replowed so deeply that the ma-
nure is hardly perceptible any more. The resulting crop is not the best.
$\qquad$ issue, about the manure question. This is a rather hard problem to solve, and a very improfits. My idea is to keep it in a shed or manure cellar in the hasement until spring, care sible and inducing the stock to thoroughly tramp sible, and inducing to avoid fire-fanging. putting it on the land carly in the spring, at such times when the frost interferes with seeding operations, and plowing in
very shallow sav. when the land is too wet for very shallow, say, when the land is too wet for
other work connected with seeding, or as early as other work connected what portion spread on in
possible, along with to
winter. on account of lack of shed room. Horse manure. and any other that is very strawy, can he spread All manure made in the fall months can he ribbed or plowed in during that period, until deas, as I think it is better to spread in winter than to leave it in an open yard where the wind
whirls the snow around the annex or other buildings, and piles it un on manure heap, to melt in spring, and, with the aid of the spring rains, the
farmer's profits are running down from the barnfarmer's profits are black stream to land already too rich. This loss is far greater than the average haying and harvesting.
Hay, as a rule. is too well cured, and cut too closely, a good deal more hay can be cured properly. I have often seen a rather big heta
hay cut on Saturday, and left until Monday, and sometimes not touched until near the end of the week. Hay can be takenhto state, if more care is greener and more palatabie state, it more care is after it is cut. This has been done, and can be
doue again. doue again.
As to alfalfa, I believe it will receive as much attention in this county, and perhans more, a few years hence than it is now geting in oth the oat
ties. In harvesting, and especially with crop, a great saving can be made if a large por-
tion of the crop were cut in the green state, say tion of the crop were cain is in the firm dough until nearly ripe. This can be fed, either cut or
uncut; and by the time a man figures on the waste uncut, and by the time a man figures on the waste
incurred after ripening, by shelling, extra risk of incurred after ripening, hy shiding, and the haul-
lodging, toll at mills for grindig
ing, as well as the cost of threshing, etc., he will ing, as well as the cost in pocket. The feeding matter is
be inney
strictly all there. only in a more palatable form. strictly all there, only in a more palatable form.
nf course. it depends a great deal on the weather ns to which course to follow. About the worst
ns
objection is the mice in barn, but where a quantity is mowed, and a few cats are kept, the
nuisance will be greatly lessened. objection to this rotation. The land is often
dry, and the busy time is not over. Iut what is the difference bet ween plowing on this occasion is practiced more and more, and, I must admit
is pith gond results?
and mood ration like this with good results? A good rotation like this
alone with careful seflection of grain, will give
atill and root crop will no doubt be a hig one with
this rotation. providing it is well attended to, the cult ivating heing not merely for weel extermina
iion. Wut for moisture conservation as well. to woid freeping and roltinge Tn the ense of
pays well, for corn planted in check rows almost loes away with hand-hoeing. After the crop is
off, the land can be shallow plowed, by running turning the as close to stubble as possibern aver the stubble then being at the bottom of furrow. It can afterwards be ribbed up, if necessary, the
,lowi I have now gone over this subject, as far as part, for without, which is the most important be out of without a A As regards implements 1 would have only those that are necessary, and the best obtainable.

STOCK ON THE FARM.
For a beginner with small means, stock-rais
ing is best started by buying very young individ ing is best started by buying very young individ uals, both in cattle and horses, as, hy heir rapid
development, through good care, his money in vested is rapidly increasing. By careful selection, the offspring of a few good cows, or a good brood mare, soon make for him an indepenatione hog-raising, poultry, and other early-profit hog-raising, farming, should be indulged in. At the mention of hogs, I may be criticised, as grain
is still high, but a person must realize that nearly all food consumed is grown on farm, and the price of hogs is high. Alfalfa, clovers, etc., can be successfully utilized in their development, by soiling or pasturing in summer, and by being cut
fine and scalded in a barrel - in winter, thereby saving considerable grain, if fed in conjunction with roots. I believe that alfalfa and hog-raising should go hand in hand, in much the same Danes import 60 per cent. of their grain, and nanes import 60 per cent. cannot we, who raise all our grain?
T need not explain further how to feed our stock, as getting a large quantity of the best
material for feeding such into the barn, silo and root-house is the more important: and if the
reader will refer to the pages of : The Farmer's reader will refer to the pages of "The Farmer's Advocate," our best agricultural adviser, from
time to time, he will find that part of the problem solved.
In conclusion, I invite successful farmers who
have had experience lifting mortgages off their have had experience lifting mortgages of their property to fall in line and give it for the benefit
of others, as well as myself. Such a discussion was most successfully carried on for some time in an American journal, several years ago, and was
found to be very interesting as well as proftable reading matter. We want their ideas. No farmer should hold to any hard-and-fast rule. What I have sad whi hold gatar opinion and advice look for a return of others' opinion and adice.
Rruce Co., Ont.

## Spring Cultivation.

As a rule, the early-sown grain crops thrive best, and yield the best returns, provided the
land is in suitable condition for being worked and is in suitable condition for being worked bed. In order that the cultivation may be thorough, it is necessary that the tools or imple
ments used be well suited for the purpose, and ments used be well suited for the purpose, and
that they be in the best condition for doing the work for which they are designed. An implement that is worn and dull may do fairly satisfactory a failure in clay land that has become hard from the influence of the sun and wind. It is, perhaps, scarcely necessary that the farmer be reminded of the importance of examining the implements some
time before the arrival of the season for seeding, and having them sharpened, if necessary, and put into the best condition for doing their work vator failed to take a grip on the hard places on hill-tops, where thorough work was most needed, hill-tops, where thorough work was most needen, an inch or two of the surface soil, while the
same implement, when its hoes were sharpened same implement, when its hoes were sharpened
by the blacksmith, took hold satisfactorily, breaking the ground up to more than twice the depth it had previously been doing. One of the best armers of our acquaintance used to test the
work of the cultivator by dragging the toe of his boot through the soil, especially on the clay hills, and if he could not stir it to the depth of three or four inches by that means, would order an-
other stroke of the implement on such places. These clay hills or knols, too, are woin, soon after having been seeded, has caused the particles of dried by wind and sun, a crust will form, so hard as to exclude the air and prevent the plants from coming through. In such a case, we have known pxcellent results from a couple of strokes of the Iried partially, and before it has become hardened ngain. This relieves the pressure on the plants,
admits the air, and leaves a mulch of loose earth which conserves the moisture in the land, pre-
been sown, "What about its fate ?" which we
reply, it will be just as hard for the clover plants to live and thrive in a compacted and crusted soil as for the grain plants; and if a lew of each
are put out of business by the harrowing, the re are put out of business by the harrowing, the re
mainder will more than make up for such loss b their more vigorous growth.

## Auld Statute Labor System

 Aboot a week or mair back, a neebor frienmine, Angus Cattanach, frae west the way Skye, cam' east to see me aboot gettin' his sup-
ply o, seed aits, that he would be needin' for the ply o' seed aits, that he would be needin or the
comin' spring, an' at the same time tae hae a chat aboot the days o' lang syne, an' the bonnie times we had thegither in auld Scotland, lang b
fore we kenned onything aboot the care an' re sponsibeelity o' makin', a leevin' for oorselves ithers. Angus was no' to say in ony too gude humor when he drove up tae the hoose an' tauld his auld wumman tae jump oot o' the buggy an'
his. tae me, " "it's awfu' roads ye hae here the noo.
 oot $\mathrm{o}^{\prime}$ a mon a', thegither to hae to come through
slush like yon.," "I believe ye're mair than half slush like yon." says I, "' judgin' frae the tune ye richt, Angus, in. But come awa' in," says I,
seem. tae be in.
". an' I'll be giein' ye a drap o' something tae mak' ye mair lenient in yer judgment $o^{\prime}$, us an' oor roads." Angus has a great gift o' speech
when a' the conditions are richt, and he wasna in the hoose lang before he was giein' me his opeenion o' things in general, an' things in par-
ticular, too. He hadna' forgotten aboot the ticular, too. He hadna forgotlen aboot the rods, an the farmers roond here dinna' ken hoo
ye an
much ye are losin' every year by no makin' an nuch ye are losin' every year by no makin' an drivin' on, than ye hae. I was here, ye min', ast simmer, when ye were pittin' in the statute abor, an' I was thinkin' then that the auld systhat is that it gies tae the farmer what he wouldna. likely get in ony ither way, or at any
wor ther time, an that is a holiday. I hae seen a
 pathmaster an' a gang o' men in a gra
an' the pathmaster was the only mon in an' the pathmaster was the only mon in the
who was using a shovel for onything mair than a
prop." "Weel, Angus," says I, " I'm thinkin' that, in case o' that kind, the pathmaster was mair to " No," says Angus, " he wisna', he was tryin' tae set them a gude example, but it didna' wark. The hale system is rotten, an it's time it
buried," says he, "this appointin" one farmer buried," says he, "osis appointin one farmer
a neeborhood tae boss the rest o' the farmers mak' them dae a fair day's work, was bound t bring aboot bad results frae the vera nature
the men themselves. They willna' stand the men orderins' roond by a mon they think
metter than themselves (which sometimes na'), an' the pathmasters 1 ken, that will ta
chances ${ }^{\prime}$ makin' trouble, an' gettin' intae fight wi' the men they hae to live amang, no' found in every section o' the countrie. Yes sir," says Angus, ". I hae seen chaps leave the
gravel pit wi' aboot twa wheelbarrows-full o' graval pit, wi' aboot twa wheetbarrows- andor
stanes an' dirt in their waggon-box, an' before stanes an' dirt in their waggon-box, an crold
they had gone half a mile, the hale thing would
be shaked through the cracks an' holes in the pottom." ., '"Weel, says I, "I ken you re richt aboot
that, for I hae seen it mysel,' an' mony the gude
buggy I hae broken, jumpin" frae ane stane tae anither a' simmer, after the road-work was done;
but." says I. " what can ye dae aboot it ? Hoo hut," says i, what aboot a change that will gie' us roads tae travel on, instead o' the bogs an' mud-
holes that gied ye sae much trouble comin' here
". There's juist ane way that I ken," says
Angus, "an' that is tae mak' the farmers pay Angus, "an' that is ae mak the farmers pay
tor the buildin' oo roads in their taxes, like they
pay for ony ither o' the township expenses; an pay for ony ther oo the township expenses; , an
tae get a road commissioner wha kens his busi
ness (which is to build roads an' get a gude day's ness (wat o' a gang $0^{\prime}$ men), to look after the
work. When the farmers pay oot their siller for
job sude roads, they 'll tak' interest e
matter tae see that they get them.
there's mony oo' us wha thinks oor taxes is unco high as it is, wi'oot pittin' a heap on them in
sic a way as that", " "Sandy," says Angus, "I tell ye. ye neve half as gude interest as would what ye "ould
called upon tae pit intae the Goon Roals ralled upon the pit intae the 'Good Roads
hank. An' he interest wad the paid we llka day hank. An the the shape o ' the bigger loants
$0^{\prime}$ the year. in the
could haul intae the toon, an' the savin', "' ' $n$ ' tear on horses, wacon, buggies, an' so on an' ver aulding wumman ant the min rose rerericinet th nn wor auld wumman an the wain rus rewn wive
dred acres on a gude road is, weel worth a hu
dred and feefty on a bad one."
" Weel "Weel, Angus," I said, " I juist wish yer
executive abeelity was as gude as yer powers o' conversation. 1 wad be gettin' ye
nominated for road commissioner, then, an' the problem we hae on oor hands, o' what tae dae wi' the King's property, wad be solved."' "O, aye," says Angus, " but it canna' be ex-
pectit of a mon that he can baith tell what should be done, an' dae it, tod

Tribute to Canadian Wheat Grading.

Few people are so miraculously modest as not to like their accomplishments and possessions thought well of, and held in high esteem by other I venture to inform readers of " The Farmer's Advocate," especially those engaged in the cultivation of grain, about a very graceful compliment trolling the grading of wheat in Canada, passed by Mr. Humphreys, one of the foremost authorities on the subject of wheat and flour, in the the Royal Society of Arts. He pointed out that the Canadian method compared most favorably with the system prevailing in the United States and that, in consequence of the reliable grading purchased to be above suspicion the reputatio of Canadian wheat was deservedly high, the bes grades of Manitoba wheat commanding the high est prices, as a rule. He concluded by saying spires in buyers is reffected in the relatively high prices of Canadian grain. EMFRALD ISLE.

Stable Appangements.
Harvel Campp asks for hints re stable drive way. I would suggest backing the manure spreader down grade, below the stables, so that
no lifting or hoisting will need to be done in loading. Also arrange the stables so that litter carrier track can be installed a little down grade.
Also try to arrange so that the horse and cow manure can be mixed every load. In placing spreader below stable, there may be some diff culty in draining; but, anyway, put it belo , will pay well.

## THE DAIRY

## Scrub Sires Spoil Profits.


 is just as applicithle to our live stock breeding as nything else, if not more so, and any discrep. ancies allowed to creep into the formation on our After require years of patient work before entirely At this sason of the yart, more particularly, oundation-laying or bullaing of his diriry herd hy the opportunity anforded for selection of the
sires and dams. At this time of the year the ast majority of the dairy cows of the Province
reshen, and, accordingly, another generation, so toveak, of, dairy animals are got under way of
to spelopent, and the selection of these ofters a Erand opportunity to effect improvement.
The slogan of the progressive dairy farmer. vi\%, Breed, Feed and Weed, just here oflers first
Application. The fundamental steps towards the improvement of our dairy stock rests in the exer-
cise of intelligent breeding. (Franted wo have an aninal bred along producing lines the likelihood
is that we will have a producer: and, this beine true, we have an opportunity for the second ap-
$\qquad$
$\qquad$
$\qquad$
$\qquad$
ing sun, or endeavoring to eliminate the noxious aveeds that infest our roadsides by pasturing
there. $A$ few farmers, in selecting their calves will be influenced by a particular fancy for color
others will consider it prudent to start the earl others will consider it prudent to start the earl-
iest calves, in order that they may get a good start before the cheese factory opens, irrespective of the merits of their dams; and I have seen
others who acknowledged that they raised this others who acknowledged that they raised this
particular calf, although its dam was an unparticular calf, although its dam was an uncalf first, and wanted it reares:" And so, nothing short of indifference prevainse should be the predominating influence
True, there is no infallible rule that may be followed in selecting our calves for dairy purposes, that wided ous orvance, previous experience and that knowledge which each owner of dairy cows has acquired respecting the several individMals of his herd, through constant caring for and
association with the animals. There is, how ever a means that can be employed that renders our knowledge of the individuals of the herd much more accurate, i. e, the individual testing of each by means of the scale, Babcock test, and milk
records. For the farmer who has adopted such a system in the management of his herd, the sat astion of the best calves, or at least those that are most likely to prove good, is a comparatively
easy matter. Through the medium of his records he has been able to ascertain pretty accurately the worth of each individual, and perchance of her dam also; and if a superior sire has been
ased this man is well on the way towards sue used this man is well on the way towards suc-
cess in at least this one phase of his farm manIf this aid of the individual records in the tas of selection is not to be had, we should select rome to apply the rule of thinking or guessing o the work of a dairy cow, it is often very indefinite. However, every herd has its superior ndividuals, and from these we should endeavor o perpetuate our herd. In our selection, we
should adhere to certain evidences of dairy type, as well as ancestry. In the first place, the calf should combine size and quality. With size, we large quantities of food, to be converted into milk in later life, and a large or well-filled middle, denoting a large heart-girth and constitution. Pardeular attention shourd aiso be paid to udder dicating length, and a well-balanced udder. Desirable characteristics are length of rump and width of hind quarters, combined with quality or ble when you first look it the calf by length and fineness of neck, sloping gracefully into the shoulder; an open expression, or large, full, placid eyes, decidedly feminine in appearance, be
ing wide between the ejes, and graceful outlines of head, with rather large muzzle, but clean-cut face gently-sloping withers, and a prominent and level, rather than flat, vertebrw, the whole contour of
the calf denoting nervous energy and intelligence are most essential in a dairy female. Calves that are to be reared should outwardly indicate these qualities. It is rather difficult to judge Che handling qualities of a calf. While she may
be somewhat thick, and not elastic or pliable, as "calf or yearling, with maturity she often beIn selecting the future sire, we are selecting the future half of our herd, and so we cannot at-
tach too much care and intelligence to this selectach too much care and intelligence to this selec-
tion. While it is very imperative that we exercise the keenest of judgment in the selection of be later used as the head of the herd is of parabe later used as the head of the herd is of para-
mount importance. Nothing but a pure-bred sire mount importance. Nothing but a pure-bred sire with the use of the scrub or grade sire, and a
great forward stride will be made in the successgreat forward stride will be made in the success-
ful breeding of our dairy stock. Not only may we expect to get in a sire a line of pure breeding we expect to get in a sire a line of pure breeding
containing many large yields of milk and butter,
denoting very superior hreeding and, accordingly, denoting very superior hreeding, and, accordingly,
the likelihood that such characteristics will be transmitted to his offspring, but we are also en-
abled to plan our work of future breeding along :omething like definite lines. By the continual we may expect the progeny to more nearly apand appearance, nure-bred individuals of this par(would decide to use nothing but pure-bred sires of whichever breed of dairy cattle they prefer, Wruld approach uniformity in size, color and pro Nuction Dairyine would soon become our na
 11. 1... Ln, wn the worlic over as a distinct breed of

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soil of the farm, of the product. The practices complained of,
however, were turning attention from Canadian dairy products to those from New Zealand. One importer noted a shrinkage it was not unusual for a chese; another shadinkage of 6,8 or 10 pounds, and it is suggested that "" some swindling is going on on the other side." Against this
placed the record of Nealand shipments, olaced the record of New Zealand shipments,
where differences in weights very seldom occur. where differences in weights ver
One writer says Canada is the
which short-weight cheese come.
which short-weight cheese come.
Most of the correspondents deplore the "greer Most of the crorrespond Canada. A Bristol imcheese" that arrive that cheese should not be shipped from the f
fourteen days old.
One voice was raised against the Canadian cheese-box. It was pointed out that from some sections broken
rail boxes were

Successful Dairy Students
The final examinations at the Eastern Dairy 26th. The total registration for as compared with 59 in 1 inal examinations, both written and practical, on cheesemaking, operating of cream separators, buttermaking, milk-testing, boilers and engines, as well as written Seventeen students were successful in passing in all subjects. Following is the standing, in order of merit: H. Dummer ; Ashton, Ont.; F. G. Ken. Derby, Ettyville, M. Scott, Balderson ; W. J. O'Hara, Rupert, Que. J. H. Dudgeon, Beiteville, Ont.; Wm. Fox, Gana noque; L. Read O-Brien, Hastings ; F Beechmount; W. W. Wobrien, Hastings Doyle
Clark, Moscow ; W. Horsey, Bethel ; L. Doy Wolfe Island; D. A. O'Connor, West Osgoode; G L. O'Hara,

## POULTRY

Breeding of Turkeys.
Anyone holding the idea that turkeys are deli J. Bell's farm, in Simcoe Co., Ont., some cold winter day, and saw there some of the mos through the snow, and roosting in an open she with the temperature away below zout turkeys be ing delicate is so general among farmers. Oth ing delicate is so breed them, and their banh counts at the end of the year would improve, co respondingly. It is quite true that every year, but this is because reasonable care is not exercised As soon as the youngsters are hatched, the should be placed with their mother in a fiel The old hen shouth a boarded top, just the wa you pen an old hen that is mothering a brood ducks. The young turks will ramble about, a will not go very far irom the hen, and, at the or proach of all, they will seek shelter under her wings. It is important that the coop, which, hy the way, sheadth every day, so that the ground will not become soured from the birds droppings.
An exception is made by Mr. Bell on those rare An excention is made by Mr. Bell on those rare occasions in the summer when the ram for two
day; then he would risk keeping them
davs in the same place, rather than take thee other risk of putting
FEEDING yound TURKEYS. The feeding of times a day for the first month His favorite feed is shorts, soaked in skim milk. The first day, only, he feeds he mixes up some danielion tops, and in another sas lelion tops, and in another some omon tops.
otherwise, nothing but shorts and milk is caten
by his young turkeys until they are four weeks
old. Then the old hen is released. and the by his young turkers unt is released. and the
old. Then the old hen is
youngsters are encouraged by their mothers ox-





From the time the turkeys are led abroad by their mother, until they are cooped at the Ontario Winter Fair, the Bell birds have no change of diet. Shorts and milk in the morning, and pick up, constitute their regimen. For drink, both skim milk and water are given at all times.
water are given at all times.
That is all they need to put them in condition Corn they never eat. In the matter of feeding it is worth while pointing out that there are
several methods. One woman to whom Mr. Bell sold stock raised some magnificent birds, and never gave them any water to drink, except in
the hottest days of summer, when she would put the hottest days of summer, when she work. It is a pre-plate
important, however, that the turkey-breeder, once
choosing his method, should stick to it unswervchoosing his method, should stick to it unswerv-
ingly. It sometimes happens that a bird takes sick. The inexperienced fancier fears that his treatment is wrong, and changes is that he loses not only the first bird, but perhaps two or three more, and then retires fren

THE TIME TO HATCH. Another mistake against which curkey too early. The last week in May is early enough in the central parts is best for farmers living a hundred miles north of Toronto. As a rule, it is better to buy your stock and breed your own. Mr. Bers and he his method preferable refers to let enting under hens. Some breeders, in haste to be rich, take the turkey's first setting old eggs and place them under a hen. Then the old
bird will lay again. The trouble is, a common hird will lay again. on does not brood young turkeys in the best hen does not brood young earkeys lamiles with them after a month old; and the second clutch, in
Northern Ontario, at least, is too late-hatched to Northern Ontario, at least, is too that, on the whole, it
resist many diseases. So the eggs. Sometime in April or May the hen turkey will Sometime in April or May the hen turkey will
begin to lay, and it will take her about three

weeks to finish this part of her duties. A nest weeks to finish this part or her duties. Apt to lay | away in a fence-corner, where there |
| :--- |
| from marauders. The eggs should be removed as | faid and kept in a cool place, turning them over a couple of times a week

In her first year, the hen will probably lay
about 18 eggs; next year, 15 , the third year 12 ,
though these figures are not invariably followed, though these figures are not invariably followed,
turheys being weak on arithmetic. It is altoturkeys being weak oner probable, however, that the first year will get the most eggs laid. It is a good plan to put
see u hen's egg in the nest when the other is re
moved, and care should be taken not to give the moved, and care shoul it is certain that she has begun to sit. Better wait a day, and make sure
she is staying she is staying on the nest. The period of incu
bation is 28 days. One cock can be trusted to fertilize the eggs of a dozen hens, and it is once for every setting. The old idea was that the male bird could be run with the hens for a
week or so in the spring, and that any eggs they week or so in the spring, and that any eggs they
would lay in the following summer would be fer-
tile This is true only as regards the first settile. This is true only as regards the first set-
ting. If it is desired to break up the first nest to give the eggs to a hen, for instance, the next
series will not be fertile unless the cock is used MK. BELL'S BREEDING METHODS. A male bird is good for three or four years,
perhaps longer; and Mr. Bell has no fancy in the matter of mating, such as a yearling cock with older hens, or an old cock what pullets. wants any fresh blood, it is hens that he gets,
not cocks. He has found out by experience what wants any
not cocks. He has found out by experience what
most of us have read, namely, that color and conformation are dominated by the male, and, as color is so importunt a feature in prizewinning
turkeys, he keeps to his own males. IFven the the «randchildren of the outsiders that he put in and once out, embories his ideas of in
In anded advantage at a certain use six months is the the hens. At that are, the wocks should weigh hear ior $:=1$ pounnis being nol uncommon for twy
so it is best to use them as breeders next year.
There is a possibility, however, if this practice vere persisted in year after year, there might be
mhough it is
an some deterioration in size. Though it is pro-
verbially unwise to count chickens before they are hatched, one may calculate on rearing one tur-
key for every two eggs that are laid; that is key for every two eggs properly cared for. This fact, and the fact that the birds are better if they never see the inside of a house or barn from the time they are hatched, should be sufficient answer to the charge turkeys fetched this winter lancy prices
should encouge more farmers to devote some
attention to them as an additional source of

Spring Suggestions in the Poultry Yard.
The progressive breeder of fine stock, as a general rule, keeps his fowl and ary condition as it quarters in as clean and Throughout the winter months he allows plenty of fresh air, removes the droppings frequently, keeps the litter fresh and clean, andate dirt; in other words, he looks after his fowl properly. To this class of poultryraisers my article does not apply. They are successful. My ar what should be done in the poul try-yard that the inexperienced farmer or beginner does not understan
CLEANING UP THE WINTER QUARTERS. Cleaning up the winter quarters is my first step in April. First, I don a pair of the "navy blues," make my way the yard as I desire to be alone while at my work. Then 1 go about it in good style, removing every removable thing in the house, putting them out in the fresh air Then, with my big broom, accumulated since my last "cleaning up." When this is done, I then bring up my tub of white wash, which is hot, With a spray pump. I put this on the ceilings and walls, not being particular about what drips on the floor, but always trying to that the out the win might make their arying it; then place back the bottom sash, and put muslin or cheese-cloth in place of the upper sash. This anows plenty o pure, fresh air to enter the building at all times,
without danger of drafts. I then sprinkle the without danger of draits. and I find always that it keeps the air purer in the building. This be ing done, I return to irst, the rosts which i paint liberally with some good lice paint. Before I paint them, however, t use precaution in cleaning out any little paint fill all those up, and thereby render it more effective. Then, in connection with the roosts, is
the dropping-board. I disinfect this with lice paint, using the same precautions as with the roasts; and when I replace them in th
sprinkle the dropping-board with lime.
From the nests I clean out all the old straw
or nest lining, and whitewash them inside and out. Then, when dry, and ready to put back in their proper places, 1 dust insect powder into
every crack or crevice, and, as an additional preevery crack or crevice, and, as an additional pre-
ventive irom lice, I place a large tobacco leaf in the bottom of each nest. Upon this I place this is done, I am ready for the water fountains, dry them thoroughly, and they are prepared for their next supply of clean, fresh water. Water vessels should be scoured often, and the water we have the grit box and dust bath to clean and e-prepare. The grit box is thoroughly scoured, lean grit; and dust bath is recleaned and reitled. I use no hoppers, therefore have none to
clean. I believe in making the hen earn her keep by working for it. In some cases, where hoppers are used, there are always a few drones that
stand by the hopper for their supply of food, and therefore they do not exercise sufficiently to stimu-
late their blood, let alone lay eggs. I only say to not dusend remember, for there are flocks the do not depend on the hopper. The laying hen is,
an ative hen, and insists on carning her food, arain to be found. low 1 am ready to return the ronsts, nests,
atc. to their respective places; and when it is done we must supply some kind of litter or and of vew. it mave domber vo the unt


APRIL 8,1909
were to let them in, without any dusting, and
hey were infested with vermin, then all our former preparations and precautions would ha
信 been done to little avail. If we wish success
beown our efforts, we must use precaution crown our efforts, we must use precaution
very hand. This work I have outlined is long day's work for any man, and if your house vill demand the work of more hands. term " house-cleaning," or " cleaning up." This routine of work I go through twice a year, in the mourse, between those months we must ever be
cone quarters in strict cleanliness. Cleanliness is said to be next to godlines
or the poultry-raiser
In addition to the above, I might say, raise pure-bred fowl, feed at regular intervals, and
make your fowls scratch for their food. Do not may it down in troughs in the form of mash, as
lay
they will gorge themselves, and you will not profit by such feeding

## Persistent Broodiness.

## inter with broody hens in my flock of young

 Plymouth Rocks. They commenced laying the last week in December, and have done very well,except that nearly every hen, after laying ior three or four weeks, is determined wo sit, and takes so long in getting back to work again
They are fed oats, barley and a little wheat in
elo litter, plenty of vegetables, and milk, and clover
Hoping you may be able to suggest a remedy, as it is ibs er orgs. number of eggs.
Ans. - Persistent broodiness in a flock kept mainly for egg production is a bad fault. Robin-
son. in Poultry Craft, claims that they can be most eashly to laying again by confining then with a reserve male in a pen from which the nest have been removed, feeding well on egg-producing
food. This accomplishes the two essential ohjects of causing the hens to forget about brood ing, while keeping them in good condition. This is more enective, he says, than conining in coops laying again in four or five days, it rarely rebadly out of condition. Starving to break up than simple removal from nests, and certain to even necessary to remove the broody hen from the
flock. The writer of this answer broke up one recently by the simple expedient of removing all undertook to remain on them over night. After around the yard a while, and pecking at other hens, she finally took to the roost, and did not
go on the nests next morning. In eight days she commenced to lay

## Sizeable Eggs

Three eggs, one measuring $7 \times 8$ inches in cir-
umference, one $6 \frac{9}{9} \times 8$, and one $6 \frac{1}{2} \times 8$, were re orted to "The Farmer's Advocate " recently by
H. Wheaton, secretary of the East Middlesex 'armers' Institute. The eggs were laid by hens belonging to G . Van Horne, of Thorndale, Ont.,
who informs us, on inquiry, that the one which who informs us, on inquiry, that the one which neasured $6 \frac{1}{s} \times 8$ inches weighed four ounces,
cording to scales in the village store. The others
ne he had not kept. The bird that accomplished
the feat of laying this " goose egg ", comes from rooster. With regard to his methods of breed ing and care, Mr. Van Horne writes:
... 1 do not keep pure-bred hens, but always
have a pure-bred rooster. and chance rooster ave a pure-bred rooster, and change rooster
-ery year, never keeping bens more than three
ears old. My pullets, last year, were nearly all aying at 5 months of age. I always feed wheat
 quart oi wheat to thirty-two hens. For noon
feed, , enerally boil a few potato peelings and
scrajis from house and mix one quart of chop in scrajs from house, and mix one quart of chop
same. For night feed, which I generally feed as
Fone when to 32 hens, and give more lukewarm water
I hat obtained from 14 to 20 eggs per day al obtained from 14 to 20 eggs per day al
I keep henhouse just warm enough so
water will slightly frecze, hut not to
, hat Water will slightly freeze, hut not touse
I have just completed another henhous
3 (1) more hens, as 1 do not believe ir
$\qquad$
$\qquad$ producers' Association will be held at in
Department, Macdonald College, Que., riday, April 9th, at 1.30 p . m. 111 in
in the production of cond
ind

THE FARMER'S ADVOCATE

Making Poultry Pay.
Would Wilbur Bennet, referred to in report of the Poultry Institute'at Guelph, kindly give us mentioned derived in the ordinary way of seliing eggs and fowl for market, or does he make part eggs "" oi some particular breed? Has he al lowed anything for rent of the five acres? Does
he feel confident of being able to make that much by investing, say, $\$ 500$ and renting a small place, allowing for depreciation of stock, in the
shape of plant, etc., or is he worth $\$ 950$ at the end of $n$ year, less his household and personal
FARMER'S SON. In answer to the first question, I would say do not sell many eggs for hatching; the profit is made from the meat and eggs for table use. Eggs
are sold to a grocer in Montreal at from 20 to 50 cents per dozen; fowl and roostcrs to a Montreal deater at from 12 to 14 cents per pound,
live, f. o. b., Peterboro, and broilers at about 30 cents per pound, live. The rent does not amount
to anything in my case ; they are kept in an orchard, and they more than make up the rent by eating up the worms, slugs, etc., which injure the iruit. Also, they greatly increase the fertility fruit. am decidedly not in favor of poultry-keeping in the way mentioned. A great deal depends on the
man, whether he would succeed or not. In my case, poultry-raising was started as a side line to general farming, whereby one increased his experience as he increased his stock, and even yet it only takes up a part of my time. It is too
small a business ( 300 or 400 fowl) to devote one's whole time to, and the same general expenses would have to come out of the small flock as if it were three or four times the size. One must
also have something to fall back on in case of a had year. You can figure out anything on paper, hre kept as a side line to other businesses, such wh fruit-growing or farming, there is ef grain, a man cannot clear, above feed, etc., from $\$ 1.00$ to $\$ 1.25$ per bird. Exclusive poultry-keeping, on a
large scale, has failed more often than it has been a success.

## Geese.

MORE SHOUID BE RAISED BY FARMERS 2. AND FEED THEM profitable if properly conducted. The farmer may realize a neat sum of money by raising a flock of geese every year, and with hardly any cost for
food, for they will wander about the fields picking up what would otherwise be wasted. the reason that ducks are so greedy that it is im possible to successfully rear them and chickens in
the same yard. Again, ducks are likely to crowd the same yard. Again, ducks are likely to crowd
the chickens and eat their food, unless a large amount is given, which is unprofitable. They are
also apt to dirty the drinking water, or more also apt to dirty the drinking water, or more
frequently to spill it. Gcese seek the fields, and do not stay close to the feeding yard of the chicks. Geese require less feed than ducks. As
already said, geese live almost entirely on green Mready said, geese live almost entirely on green
foods, with the exception of a few weeks of fattening. They are also easier to raise, disease
how to mate.
Two geese are enough to mate with one gander, if the Toulouse or Embden variety ure bred. The
African geese may be mated three to one gander, with good results. During the winter months corn should be fed sparingly to the breeding stock,
is it is very fattening. Oats should be the main HOW TO MAKE: NESTS AND SELECT AND HOW TO MAKE NESTS AND SELECT AND
SET EGGS FOR HATCHING. As the spring approaches, make roomy nests in
the place that they have been accustomed to staying in at night. When they become broody,
if more eggs are desired, place the goose or geese
in if more eggs are desired, place the goose or geese
in a small yard, and leave her or them for two
yrea or three days. Break up the nests or board them
up, and let the goose out. By this time she will
likely have forgotten her former nest If the goose is to he set, select as many eggs
If she will cover without overcrowding. These eggs should have been gathered as soon after being
laid as possible, for they chill easfly. After
lat gathering pack in bran, little end up. While sit
ting, the goose should be allowed access to a pond of sufficient size for swimming, if the weather i not too cold. Where water is not within reach,
1 he eggs may be dampened twice a week with
tenid water tepid water. The method of setting the gees
cgys under hens, and breaking up the geese to ob
tain more eggs, is practiced by many throughou
he country, and is almost as successful as using
geese as sitters, although the rearing of the gos
lings is apt to be more difficult. Set the hen in lings is apt to be more difficult. Set the hen in many to straw, as it contains more moisture.
Dampen the eggs three times a week with tepid pater. When the eggs are expected to hatch under the goose. have a close basket or box handy, and in it put a woollen cloth large enough goslings as soon as hatched, as the goose is liable Treatment of the goslings
Ater the hatch is over, place the goose or he and her brood in a yard where there is no pond as swimming is harmful the young goslings water chin drinking and feed hard-boiled eggs bread, or bran. The former is the best. Afte the goslings are a week old heavier food, such a corn meal, may be given. Supply plenty of gri
and green food, if grass is not near. After two or three weeks allow the gosings to run at large If there is no water to swim in, the goslings may be let run from the first, being careful to kee If pasturage is abundant the growing stock will require little food after the first month till late in the fall, when, if the geese are to be kept
till Christmas, as is usual, we advise feeding heavily and disposing of them as quickly as possible. Prices are as good, often better, early than later. Sfilecting a breed.

$$
\begin{aligned}
& \text { Much discussion has arisen on this question. } \\
& \text { Mucher } \text {. }
\end{aligned}
$$ cause they breed it. It is a manner of advertising. Selection should be confined to either of the the African variety not because we breed it, but because we believe it to be the most profitable goose to raise. We have had experience with ther breeds, but succeeded best with the Ald.

DESCRIPTION OF DIFFERENT BREEDS. A brief description of different breeds are iven as follows:
The Toulouse is the largest of the goose family, ities, so a description of it is not necessary. The Embden is nearly as large as the Toulouse. Their plumage should be pure white, but the under color of some birds is mis breed is also common, nd can be seen at almost every fair. The African variety is of the same Standard weight as the Toulouse, 20 lbs. for the gande and 18 los. for the goose, although they are seldam found asight. On the other hand, Toulouss geese are above. The African mature more quick
ly, lay more eggs, and are hardier than the Tou ly, lay more eggs, and are hardier than the Tou
louse or Embden. They also make good sitters. The color is similar to that of the Brown Chin goose. BERT SMITH.

Inflammation of Oviduct.
Have had three hens die lately while in the act of laying. Hens witan Am giving them mixed grain, pulped roots, grit, etc. Upon open

Ans.-There must have been symptoms previous
the demise of the hens. Without symptoms, it is difficult to arrive at the exact nature the diserse. In this which is not an unusual cause of death among poultry, particularly of birds in an overfat condition. The unexpelled egg, of fal size. which was discovere disease named. The egg had to be expelled, or removed, or death would ensue, and the latter occurred. The sympcoms are straining on the part of the hen to ex pel the egg from the feathers. The vent is usually hot, showing a temperature of 105 to 107 degrees. An English authority says : "As the inflammation pro-
ceeds, the bird becomes more and more mopish ceeds, the bird becomes more and more mopish
and exhausted, but does not strain so violently, and exhausted, but exhaustion. Ultimately, the temperature becomes lower, the body cold, and, The cause of the inflammation may be due to prolific laying or too large eggs; too stimulating food; the feeding of condiments in excess, or ob-
struction of the cloaca." Treatment recomstruction of the cloaca. fowls from the same mended to prevent other fowls from the same hens are fat, reduce rations. Let then run out
as soon as possible.

I read "The Farmer's Advocate" with pleasure each week. It is the most inspiring paper hat ever came to my notice, and I trust that it

## GARDEN ORCHARD

## Cabbage Growing

A subscriber in Durham County, Ont., who purposes devoting asks for information on grow ing, care, and storing, of that crop. While this is a broad question, demanding
changed methods to meet local conditions, there changed methods to meet can be applied to ad vantage. A mellow soil, rich in plant food, and a liberal supply of moisture, are the prime re
quisites. Late Cabbage, of course, should form quisites. Late Cabbage, of course, should form being grown to meet the demand and to lessen the rush of harvesting later in the season, as well as the labor connected with storing. plants in greenhouses or hotbeds, and harden them otr in cold-frames, in order to have stout, strong plants for setting out as soon as weather con-
ditions permit. For early sorts, particularly, this practice is necessary, because late-sown early varieties to not head up in time to catch the varieties eo not head up in time to catch the sometimes started from seed sown in the open, thus avoiding the check due to transplanting; while others plant a thick row, and then transplant as required. Planters can be procured from seeding in the greenhouse, in hotb
boxes in the window, to produce plants for early planting, usually is started in February. After about twenty days the young plants are ready to
be pricked out, and set two inches apart in other be pricked out, and set two inches apart in other
boxes, so that they can develop great root sys tems, and become stout, healthy plants, instead
of spindly, weak ones such as result from crowdof spindly, weak ones such as result from crowd-
ing. Gradually, then, they are hardened by subing. Gradually, then, they are hardened by sub-
jection to lower temperatures. They can be set outside in the sun when the weather is not se
vere, and by the time the garden plot is in fit vere, and by the time the garden plot is in fit
condition for planting, the hardy young plants
will not suffer from the cool nights. Those who will not suffer from the cool nights. Those who
have not greenhouse or hotbed generally prefer to buy the necessary

$$
\begin{aligned}
& \text { o buy the necessary plants. } \\
& \text { Special care is demanded in setting out the } \\
& \text { olants. If placed in the garden or field early }
\end{aligned}
$$ plants. If placed in the garden or field early

there will be little development of leaf at first, but even though the weather is wet and cool root
development goes on rapidly, and later in the development goes on rapidly, and later in the
season the growth is vigorous. Plants put out early should be set deep, and if severe frost threatens, the can be covered with loose earth, and
left with this protection until the weather mod left with this protiction until the weather mod-
erates. It always is advisable to set plants in the open during cloudy weather, and, if need be to protect them for a short time from the sun. This treatment will be governed by conditions
under which the stock have been made ready for under which the
garden planting.
The distance apart depends on the variety grown. Large growing sorts, as a rule. are
planted in rows three feet apart, and about two cet apart in the row. This allows of hors
ultivation both ways, and reduces hand-hoeine cultivation both ways, and reduces hand-hoein,
thould be set going as soon as the plants have
established themselves, and used later after every heavy rain, or at least every week or ten day until the crop is well grown.
The question of varieties was dealt with in our ssue of last week. Before fall, details regarding harvesting and storing will appear in this de-

Preparing Lime-Sulphur Wash loy Steam.
In preparing lime-and-sulphur wash, we use fresh, unslaked lime, and flour sulphur. The boiling plant is placed on a platform about 7 feet
high, over a running stream. Arrancements are made to have the mixture run from the boilingvats into the spray wagons with the use short hose Each vat holds 200 gallons. Two
vats are used for boiling in, and one for heating the water. The latter is two feet higher than the boiling vats, with gas-pipe attached to each boiling-vat.
We use a steam engine to do the boiling, and pump water into the heating vat, First, each then 115 pounds lime is thrown in, then 85
then pounds sulphur, which is mixed up to a paste Then hot water before thrown in the boiling tank. pounds. Then we cover, and let it boil 45 to 50 minutes.
We like the steam, as we get the heat more will clog the mixture is not boiled enough, it The straner we use is like an ordinary pail, with is cone-shaped strainer in the center. The mesh The cost of preparing a barrel of lime-andsulphur wash is 75 cents, but it cannot be bought at spray plants around here for less than
$\$ 1.00$ per barrel. Wentworth Co., Ont

## Removing Winter Mulch

## Many Canadian strawberry-growers have learned

 to cover the patch with a mulch of strawy ma-nure or swale hay. The protection afforded in holding the snows of winter, and in avoiding damage to the plants by alternate freezing and thaw Iudgment must be exercised in worth while. covering as the growing season comes. Strong healthy plants may be injured by being left cov. ered too late in the season
The accompanying illust
cellent pactch of strawberries, with an ideal mulch nicely pulled between the matted rows. Some make the mistake of removing the surplus straw. By doing so, they leave bare ground where berry
plants are not growing, and consequently weeds plants are not growing, and consequently weeds
are given a chance to develop, thus necessitating extra labor. The strawy part of the mulch should be made use of to cover all bare places. It keeps down weeds, conserves moisture, helps to keep the berries out of the
ing much more satisfactory


Gpowing Canning Cpops
Seing eulte great wheat belt of our Northwest is being cultivated, and wheat is being grown for ers cannot raise wheat to compete with them, we naturally turn to something else to make the
farm pay. After all, the great success ine After all, the great success in farm-
ing is, how to make the most dollars out of it At the present, that can be accomplished of it. by what we call mixed farming. While our
cheese industry is second to none, and hogs and cattle have paid well of late, still there must be a variety of crops on the farm to bring about
those results, and the question is, What shall it be? Anything to make the most dollars at the same time, keep up the land, is the answer, made wonderful strides, and their goods are in demand the world over. The farmer, ever keeping an eye open for business, is turning his at-
tention in that direction, and, I think, wisely when he can get a ready sale, at good prices, for anything he has to seli in that line. For instand is fall-plowed, and well cultivated in the spring, and given a coat of fine manure for toping. it gives good returns in any kind of plowdinary season. I have seen $\$ 75$ taken from two
bushels sown, but the average is from $\$ 30$ to $\$ 40$ per acre. early; Advance, Glory and Market Garden. They come in rotation, as named.
Sweet corn is also a paying crop. The fodder for cattle is worth the work and seed. The fodder four tons per acre is a fair crop. The best vari-
ety to plant is Crosby, for early : Colony Hay cock, and Stole's tation as named. The land should be fall-plowed (sod preferable), and well cultivated in the spring
before planting, warm and dry . Never plant until the ground is corn is more or less a a dried seed, and requires
warm ground to give quick germination good plant. Beans are the best-paying crop per acre that a lot of labor to get them picked in proper Shape, a person can put in only a small acreage, have seen beans turn $\$ 100$ per acre. In that there would be about $\$ 30$ for picking, which would
still net $\$ 70$. The best variety of bens fand stil net' \$70. The best variety of beans, I find, tine, which is a green-pod.
Beans will not do well on low, wet ground, as they are sure to rust, and then wet ground, ase for canning. In fact, it is a mistake to put
use peas or corn in the ground till there is a growth
to bring them on quickly. More cultivating can be done for corn before it is planted than after. These hints are given from my own personal over thirty years. 1 have also raised small fruit the same time, with good results, especially struwherries, which are again bringing a good
price for canning.
Norfolk Co Ont

Crown Gall of the Apple.
outgrowths or excrescences on the apple, pear peach, raspberry, otc, forming chiefly on the parts
below ground. On the apple these growths are more apt to occur on grafted thees at the union of the root and the scion, but they may form at
any place where the roots have been injured in try place where the roots have been injured in
transplanting, etc. Recently, Dr, Erwin F. Smith and his asso Ciates in the Bureau of Plant Industry, U. S. De
partment of Agriculture, have demonstrated quite conclusively that crown, gall is caused by a specific that it is very omnivorous in its tastes, being able to cause warty outgrowths or galls on a
surprising number of different and unrelated spewith pure cultures these plants
Not long ago the Maine Experiment Station purchased 60 apple trees from a leading New
York nurseryman. The package in which they "ure shippod bore a tag stating that the orchard from which they came had been officially inspected trues. or 5 per cemt. of the shimpease. Theo of the 60
 "nc. indicates that every orchardist should very
cariully inspect all stock which he purchases for setting this spring. All trees showing evidence , orn orned, and futuro orders placed with Wimn disease. Under no condition should trees be



Approved Methods with Asparagus Recent years have found a great increase in asparagus as a garden product ror gening growth,
use. Being a perennial, with early spring it is desirable as one of the earliest vag a iew crops. In fact, frost is out of the ground. A deep and rather sandy loam that has been in sod a few years furnishes an ideal asparagus
bed. However, this plant will grow on almost
any kind of soil. Land that is in fit condition any kind of soil. Land that is in fit condition
to grow corn or roots suits for asparagus. It is
to well to enrich a poor soil with 40 or
well-rotted manure to the acre, but this is not altogether essential, because the nature of the crop
makes it possible to add manure every year. makes it possibe for commercial purposes advocate deep plowing and the use of subsoil plow and drag harrows the area is eassout the month of May To insure a vigorous growing stand that will
ontinue to be productive for a great number of years, deep planting should be practiced. Good esults are obtained from plowing furrows or dig-
ging trenches 10 or 12 inches deep and setting ging trenches 10 or 12 inches deep and setting
strong plants one year old, or perhaps two
years, about 18 inches apart, spreading out the years, about 18 inches apart, spreading out the
roots. At the time of planting, the roots should be covered only about two inches. In a couple
of weeks the young shoots will be as high as the furow top. Then the rest of the filling in can
be done, the land being levelled and the plants covered to a depth of again appear. When the plants have ripened in the fall thoy should be cut
off close to the ground and burned. Another coat of manure should be applied, and plowed in four rough over winter.
The following
surface, and rapid dering a drag harrow levels the lows. No cutting should be practiced until the
second season after planting. Then shoots can be cut when 6 to 8 inches high, starting when
they first come and continuing until they become they first come and continuing until they become
woody. As a rule, the sprouts are edible for about six weeks. should be cut and burned and the patch plowe and worked to a depth of four or five inches,
Small areas in a farmer's garden can be given similar treatment with hoe and spade cultivatio
Little trouble is found in keeping down weeds.

Horticulture at Alaska-Yukon Pacific.
Horticultural exhibits will be a feature oi the Alaska-Yukon Pacitic Exposition at seatte ans
summer. Magnificent displays are being prepared
for exhibition purposes by every county in the for exhibition purposes by every county in th
State of Washington. Several of the larger coun ties have erected their own buildings at the fair The displays of fruit from Oregon, Washington
and California are promised by the press agent to be the greacest . In the Canadian building ho ticultural products will also be featured, and th Grand Trunk Railway will make a display of
fruits and vegetables, as well as the grains and fruits and vegetables, as well as
grasses of that section of the Dominion through which the line passes. British Columbia agricultural features will be given much prominence. In
all, it is said the horticultural products to be displayed woul

## Do Apples Pay

A number of Essex County orchards, and porconverted into fuel, the reason given being that "upples do not pay," because of the unsatisfacremedy is the only one in sight, but, in view of the increasing multitudes who want apples, and
are willing to pay for them, there is surely a betare willing to pay for them, there is seration has
cer solution of the problem. Co-opereration in marketing bringing with it improved cultural
methods, including cultivation, fertilizing, cover crops. pruning, spraying, and in some cases on
nine. Mntario orchards can be made to pay
handsomely if man has done, man can do.
The Nova Scotia Department of Agriculture is till prosecuting a vigorous campaign, with a viw to reducing the number of Brown-taile
linths to a minimum. For two years they have,
"o memergency mensure been paying a bounty
of it first, 3 cents, and later, 10 cents, for each it first, 3 cents, and later, 10 cents, for each his means the number of nests has been greatluced, and this year several of the Agricul-
"oll, ge graduates wi:l work carefully through
ations of country infested, and with the aid

Capacity of Boiling Outfit. The outtit for boiling lime and sulphur, described considerable initial expense, is not objectionable, are used in a small fruit-crowing area in one season. This plant has turned out over 60 barrels of mixture ready for use in one day, and it is
claimed that more could be made in the same time, if necessary One man is capable of running the whole out-fit-keeps the engine going, prepares the mixture
and delivers the prepared wash to the spraying tanks. Neighbors who are not members of the company owning the pla,
rate of $\$ 1.00$ per barrel.

## Money in Melons.

## A couple of young men from a general farm

 tackled gardening near a Western Ontario town,and were able, the first season, to secure a return and were able, the first season, $\$ 300$ from an acre of Hackensack musk
of over melons, or some $\$ 280$ clear of commissions, ex
press charges, etc. We would like to press charges, etc. We would like to hear
statement of the returns per acre by growers of statement of the returns per acre
other garden crops. Give details.

Getting Rid of Toadstools. Occasionally lawns are badly disfigured by the
persistent growth of toadstools. One of our persistent growth of toadstools. One of our
readers who experienced difficulty last season and was unable to keep them down, wishes to know
if there is any way of doing away with them if there is any way of doing away with them
other than digging the spawn out. Can any of other than digging the spawn out. Can any of
our readers suggest a remedy that will avoid disour readers suggest a remedy
figurement of the grass plot?

## THE FARM BULLETIN.

## Power of Ideals.

Editor "The Farmer's Advocate": number issues of "The Farmer's Advocate," dealing with the tendency of farmers' sons to leave careful perusal, but as I think we have not yet got to the root of the matter, I will accept Mr. Burns' invitation to an expression of opinion,
with the assurance that I am not a feminine critic. In discussing this question we are re-
minded of the saying of the American humorist, minded of the saying of the American humorist,
who, when asked how to keep the boy on the who, when asked how to keep the boy on the
farm, replied : "It he really has to be kept there, farm, replied "it he really has to be kept there, that agriculture is a noble occupation, and worthy of the attention of the most intelligent minds, we
should not assume that the majority of the boys born on the farm should remain thare, and I would not like to believe, as one of your correspondents seems to, that the only safe place for
a boy who has been raised on a farm is inside a boy who has been raised line fence. The correspondent mentioned admits that many farmers sons are leading clergymen, physicians, politicians, etc. produce a few bushels of potatoes or wheat? produce ane of the foremost duties of parents to
believe one their children is to try to ind out fill, and hav ing done this, to endeavor to direct their ambition thereto, no matter whether it leads them
the farm, foundry, counting-house or pulpit. II the politicians are as anxious about this matter as they claim to be, our Government might do
much by arranging the tariff, so as to evenly dismibute the burdm of taxation. They can do much by providing facilitics for coming reasonable rates ter-communication,
on railroads, which are really built with public on railroads, giving telephone and daily mail service etc. As a class, farmers can do a great deal by
organizing, not only for the purpose of discussion organizing, not ont also to obtain the racognition which the importance of the industry deserves. As individuals we can do much to recommend important things is to give them the best available agricultural education we can afford. An-
other very important point has already been mentioned, namely, arranging for detinite hours work and recrays. it would follow this thought still further, and say to any who have not been in the habit of keeping books, and who feel let him keep accounts and have a certain share, large or small, in the profits. Another thing which I probably should have mentioned earlier: have some defne a dairyman, stick to one of the well-known dairy breeds. Do the same with your horses, sheep, or whatever stoc' $\alpha$ you have.
In short, try to put certain ideals before your
tal you can spare. Give him the opportunity to fear for the future of Canadian agriculture.

Mr. Boyle Replies to Mr. Humphpies.
Editor "The Farmer's Advocate": ${ }^{\text {In }}$ your issue of February 25 th, John HumIn your issue of February 25th,
phries, Frontenac County, deals with this question, and tells us that Mr. Newton, writing in
favor of protection, puts his case very ably, fafectively and plausibly, and that his arguments appeal with great force to there whaps, a better acested in labor, but that, perhaps, a better by quaintance with facts, and free-trade countries, would tend to dissipate. Mr. Humphries admits that Germany and the United States have made greater comparative progress free trade, but he than mas that protection has had little or nothing to do with it. Free trade was adopted in proceeds
some 60 years ago, and Mr. Humphries pror some 60 years ago, and air. He has done for the ""Mistress of the Seas." First, she has, to a certain extent, been able to push her manufactures over the walls of oreign tar supremacy in the enabled her to maintain her supremacy in the Mr. H. is grossly mistaken); third, it has made
Britain the cheapest area for the establishment Britain the cheapest area for the establishmen
of those new industries which the progress of of those new industries which the progress of
science and civilization is constantly creating. (This is another mistake; where are automobiles being built ? I answer, France and the United
States, both protectionist countries. Fourth, States, both protectionist countries. it has thrown into her hand the carrying trade of the world. Why, sir, England had as great a percentage of that trade in 1848 as she has at present. Mr. Humphries goes on to toll us that
free trade has enabled Britain to pay her work free trade has enabled Britain to pay her work people higher wages, with shorter Woll, what of that? Was not the same true in 1830 and in 1840, and even when Richard Cobden was it that clothes. Mr. Humphries chinks over the walls of foreign tariffs, but what about England herself ? Go into a store in the counters and shelves filled with manufactures made in Germany and the United States; and you will find thousands of British artizans walking the streets in idleness, calling for work
or bread. These shelf goods, if made in England, or would give employment be manufactured in the local workshops, p.
tective tarif.
I now proceed to deal with Mr. Humphries ${ }^{\text { }}$ assertion that England has maintained her supremacy in trade in the neutral markets of the world. Canada, up to 1896, might be called a
neutral market for Rritish merchandise. What neutral market for Rritish merchandise. In 1860, about England holding her own here purchased a bottle of ink you would find it was made in London, Eng. Our ink is now made in New York City ! If you bold supply you with a timepiece. At present Waltham, Eigin and Ingersoll hold the fort. English scythes were used in New Brunswick forty years ago; there are
none at present. The imports from the United States have gone up with leaps and bounds; the imports from Great Britain have fallen off.
York Co., N.B.

## Some Show Dates

April 21st to, 24 th-Vancouver, B.C., Horse Show. May 12 th to Olympia, London, England. June 22nd to 26th-Royal Show, Gloucester, Eng July 5 th to 10th-Alberta Provincial, Calgary, Alta.
July 20 th to 23 rd-Highland Society's Show, July 20 th to 23 ra-
July 10th to 17th-Winnipeg Industrial ExhibiJuly 16 th to 23 rd-Brandon, Man.
August 26 th to September 10th-Canadian Na tional, Toronto. 18th-Western Fair, London
September 10th to

In a letter recently received from Principal Cumming, of the $N$. $S$. Agricultural College, he creased valuation of farm property. In trying to assist some friends to purchase farms, he found that in the past five years their best farm lands had increased in value anywhere from $25 \%$ to which may be purchased at a nominal cost, but no one, he added, who has a farm that has been
kent in proper condition need have any difficulty kept in proper condition need have any are flourish in disposing of it under the present more fiouriss
ing conditions than have heretofore prevailed.

THE FARMER＇S ADVOCATE

Annapolis Valley West
$\qquad$ With the increase of the dairy industry in the ing headway．In the western end of the valley especially，the young pigs are shipped when rour
or five weeks of age to the fishing villages and or five weeks of age to the fishing villages and
towns around the south and west shores．These people thus raise their pork pretty cheaply during the summer on offal and waste from the house
This market demands a rapidly－growing white pig． This market demands a rapidly－growing white pig． The Berkshire is scarcely salable，and the the the Chester and Yorkshire and their grades．In the
valley taste is about equally divided，though the valley taste is about equally divided，though the and St．John packers and commission merchants take the surplus of the farms at current prices， giving the best prices for hogs which dress be－
ween one and two hundredweight；well fed but not oo fat．Litters come from March 1 st to
not too for
Mat October

Another sign of progress among our farmers is the increasing use of the telephone．This，as
well as the installation of a water supply，whether by power or gravity；a promised rural－mail de－ very，will，and is，tending to place the farme conveniences．Unfortunately，the N．S．Telephone co．，having bought out some of the lesser lines， are inclined to run a monopoly，and a ad that is arousing feeling all over the valley．Several Boards of Trade and Associations have appointed committees of protest，and a public utilities bill
is now beiore the Local House，recommending a is now beiore the Local House，recommending these utilities．
At a recent meeting of the Executive of the
Nova Scotia Fruit－growers＇Association，Profes－ Nors Sears，of the Mass．College of Agriculture； W．T．Macoun，of Central Experimental Farm，and M．Cumming，of N．S．Agr．College，were ap－
pointed a committee to choose the site of the pointed a committee to choose the site of the lished in the Annapolis Valle
As a result of the mild winter and increasing good care of the past few years，fruit trees are promising well．Last year several orchards，both in Annapolis and King＇s Counties，were defoliated by the canker worm，and many orchardists had to put up a pretty severe fight to keep the leaves
on．As a result，it became popular last fall to paint bands of castor oil and resin on the tree
trunks，and a general watchfulness and careful spraying will characterize this season＇s opera－ tions．It was contended by those who suffered
worst that it was useless to try to combat this pest with arsenites or ordinary poisons．and if so， those who neglected to band their trins last fall
may be sorry for their neglect this siring．The Brown－tail moth is being kept in sirring．The nests are showing this spring
The apple－shipping season is about done，and it has proved an eventiul one；almost as much so
as last year．In 1907－8 they began high and dropped，while this season they began low and rose．The farmers ran after the speculators un－
til about the middle of lecember，thin the race urned，with the speculator doing the chasing． down and prices took on a normal aspect．One of the curinus freaks of the year has been the
prices for Baldwins．Generally this apple is ver and Spy，but in some cases they Comon Russet above these，bringing as high as 25 s ．
In spite of the fact that our fruit wasen as a whole，the cleanest，finest lot for yars， violation of the Fruit Marks Aet as last year．
This is，we hope．to be lookid upon as a sign of on the part of the Fruit Division to send only

Continue the Paper，of Course




 mits opwnine day．With two months stIII，


Danger of Buying What We Want

## I notice in your widely－read and well－conducte

 journal that the tariff question seems to be a liv． one．This is a hopeful sign，and of great im．portance，as the weal or woe of Canada mainls depends on her trade policy，and in order to ar－ rive at the best conclusions we should be aided
and guided by the past and present examples of those great and ieathy nations of the worm my fellow farmers are advocating lower dutie than are now in force，and others seem to think ree trade（whatever that means）would be an ad phrase，and if my farmer friends intend it merely to apply to trading horses，hats，jackknives，etc． with their neighbors，or at the fair，then it has some meaning，but if applied to internationa
trade it is a misnomer；inasmuch as there is not a civilized nation in the world to－day but main tains a high protective tarifif．except Great Brit ain，Canada，and possibly India，and it was pro－
tection continued for centuries that so developed the agricultural，manufacturing and mining indus tries of Great Britain that in 1845 two－thirds o the world＇s shipping was under the British flag and up to the present time she is far from a free
trade country，as she exacts a high revenue tarif on a very considerable portion of her imports，and has a very effective lav protecting her farmirs and
stock－breeders by the embargo on foreign live stock－breeders by the embargo in its results；for instance，Canadian exporters of cattle figure that if the embargo was removed it would add frot
ten to fifteen dollars per head to their receipts ten to fifteen dollars per head to their receipts
But the greatest benefit seems to go to the Britist breeders of pure－breds，they baing absolutely pro tected from competition with forcign breeders， Now，it is admitted by experienced cattle judge better，cattle than are bred in Great Britain，and plenty of them；nevertheless，although Canadian have sent many millions of dollars to British breeders for cattle and other stock，yet we ar
denied access to their markets．Here is one in stance of many that could be given．At Senato Edwards＇sale recently，competent judges were o the opinion that animals sold there at irom two
to three hundred dollars each would have sold at British sales for at least five times as much，henc it is evident British farmers are master hands in protecting their home markets，and are muct
more resourceful than the old Yankee，who boast
ed he had a better way of killing a dog that ed he had a better we
choking it with butter．
Now，one of your correspondents asks，what is the meaning of adequate protection，and as it may
be of some interest to the farmers oi Canada，the be of some interest to the farmers of Canada，the
following extracts from the Fncyclopedia of Com－ merce and English Statutes may enable this en－ quiring friend and others to see what was deemed
sufficient or adequate protection by the people of A protective tariff was first framed in England in 1337，but it would be too great a trespass on Your space to give dotails，hence I omit until higher protection to manufacturing industries Thder it the import duties on cotton textiles was
$£ 4.4$ on the $£ 100$ value，and in order to encour－ age wool－growing and woolten manufacturing silk prohibiteds，leather prohibited；carthenware \｛15 on the $\mathfrak{i d n}$ ，iron manuiactures per ton，$\{\mathbb{2}$ Inn 1819 the tariff was further incrased：（oot－

 duties consithrablys hut heit tham sill hishls pro．


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he tariff of 1869 as being a revenue toriff； protection lasted in England until 1869， oremost place among the nations of the wo It is needless to dwell on the wonderful and
rrowth of the United States，which has England as its guide in framing it thas as anyone of ordinary observation and intelligionce Now comparison of the fore Now，a comparison of the foregoing and protective policy worthy of the name，and
the so－called＂National Policy＂was simply the so－called＂National＂Policy＂was simply It is true Providence has been kind to the farmers of Canada，inasmuch as for the unprecedented period of eight or nine years in succession they have reaped a full average crop，with the excepp－
tion of one year，and then only the far Western Provinces did not reap a full crop．
This happy state of things can hardly be ex－ This happy state of things can hardly be ex－
pected to continue，for the best agricultural coun－
ties in the world have crop failures，which in act，has been the case in many of the great grain－growing countries of Europe and Asia dur－ ng the period above mentioned，and which mate－ But should a failure of crops occur in Canada （which，let us hope，Providence may avert），what position is the Canadian larmer in to face hard ign produce，the outlook，to say the least is not encouraging，as the following，taken from the Yearbook of 1907，should convince any sane unless he is content to be mere＇hewer ofected， and drawer of water＂for foreign countries． In 1906 agricultural cereal producis（exclusive of Canadian markets by United States producers io he alarming extent of $\$ 18,606,611$ worth，which should，and would，no doubt，have gone into the ockets of Canadian farmers if Canada had adopt－ Returns for 1907 are not complete，being only for the first nine months，but show a still more alarming increase，climbing up to $\$ 18,899,940$ o sand over the That Canadian farmers were able nine months was the comparatively paltry sum of $\$ 2,223,941$ worth．Or，in other words，we sent out of Canada into the pockets of the United
States farmers more than threa dollars per capita or cereals，and in return for the privilege of ex－ ploiting our markets，the shrewd Yankees sent us Volumes of figures could be given，proving that of Canada to enrich United States，German，Fing－ if not all，of which should have been made part． home，thus building up our own country，and mak－ ng for the farmer a home market，which，aiter III，is by far the best mark3t．
But the question
But the question arises，what is the cause of
his state of affairs？The ahsence of a Pitt．Hus－ kisson，Lord Liverpool，Dingley，McKinley，or men oi their calibre，among our past or present states－ Iso the apathy and andifiference of the peoplor it： specially the farmers，who have allowed them－ he dupes of a propaganda of paid agents of for－
ign countrics，who for senerations，by the most ubtle and nicely－worded but flimsy arguments，
 Wtals of Canada．Rut if Canadians are wise they
uill corn to be guided by those emissaries，and
their and captandun arguments．that protection
$\qquad$ For＂tarifl is not like the laws of the＂Medes an unmake it with a stroke of the pen，if any

Collecting Timber Statistics．
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Arleth. צ, 1909
Departments. The value of the summary will dee
pend upon full and prompt answers. All manu sacturers and users of the materials named would Render a valuabe service
R. H Cumpbell, Superintendent of Forestry, Ot-
tawa The timber situation is beconing serious.

## "Farming" as a Business.

 To succeed in any business,conduct it in a thorough, businesslike way, and no matter whether we go in for general farming, or
specializing on one or more branches, we should do all in the best possible way to make a lasting success of the man man who determine
1 think their choice of occuration by the amount of brains
they are endowed with, assuming that cne does not require the same amount of knowledge to farm as is needed in other calinngs of hire. Now, this
is not the case. It has been said that any doughhead can be a lawyer, doctor, grocer, and so on And why? Because, in no other occupation in life is there such a wide scope of thought, science auld
nanagement necessary. For instance, one should know the nature and conditions of all comestic animals, their relation and adaptability to differture of the soil, and the practical knowledge all plant life, and its tendency to enrich or in
poverish the soil, together with the difierent in sects and birds, al which have
fect on srowing grain or hay life.
attain to the highest possible रield per acre with
the least danger of depleting the soil. Likewise called for. Choose your dams from frolific, thrifty stock, and breed to a good healthy, wellbuilt sire, exercising special care during the later period of gestation and tender stages of life. Hens higher standard, and, by study and care, can be made to lay from 100 to 150 eggs a year
stead of from 20 to 50 , as many hens do.
into all the different lines and develop each in a short length of time, but, by careful study. selection, system, and a little common sense, he make a material financial difference in the year Another thing, I thiuk we, as farmers, don'y
read enough to improve ourselves intellectually We should, besides world through the daily papers,
is going on in the world acquaint ourselves with the different markets, the different measures and bills that are intro-
duced into the Levislature that may directly or duced into the Legislature, that may directy
indirectly affect the buying and selling of some the commodities which we have for sale, or may
require to purchase; or, in fact, that are likely require to purchase; or, in fact, that are likely
to affect us in any possible slapee or form. it is
it also well to have some knowledge of the work of
many of the standard authors, to cultivate an appreciation of the higher ethics, as the happiness
and contentment of life should be not in dollars and cents alone, but in the developing of those
qualities that are conducive to the well-heing and high ideals of our fellow man. I might here say, I think, that it is this lack of intellec-
tual
develolonnent, gard sone farmers have for their personal a ppear-
ance which makes then
 of our population, they, have practicaly no say
in the government, which Ithinc is to he de
plored, us farmers should he the dominating iore plored, as farmers should be the dominating iorce
in the lowislating body, and can be, if they will only wake up and accuazint themselves with their
needs in earh community; decide on a cood
 be endowed with all these qualities more than the
farmer, who is in closest touch with the beauties
of netr

 Mushohan. ()nt.
 The ant Ma against militarism, and many others,
as well
alone the Christmas Number, were each alone woth the subscription price of a year.
MENSO M. BRUBACHER.

## To Our Club-raisers.

There are thousands of farmers who do not know what they are losing every year through not being subscribers to "The Farmer's Advo cate and Home Magazine." Therefore, we want all readers of "The Farmer's Advocate "to act as club-raisers this year, and send us large lists of NEW SUBSCRIBERS.
If you send us two new names and $\$ 3.00$ to cover same (each new subscriber paying $\$ 1.50$ ), we will mark date on your paper forward one year as remuneration to you; or, for each single NEW NAME, accompanied by $\$ 1.50$, we will advance the date of your address label six months. Cash commissions or premiums, as preferred, for larger lists of new names.

In clubs of four renewals or over, we will accept $\$ 1.25$ each

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

Dumping Clause and Underhand Protection.
w. by the manipulation of the dumping clause and otherwise, the ways of the protectionist, in levying toll on the consumer, are almost past finding out:

年 of the anti-dumping clause in the Canadian tariff, taken " Take the case of cream separators as an ilto the ouricultural interest, placed on the listion articles which may bo imported duty free. But if an American manufacturer sells such machines o a Canadian dealer, for import into this coun-
at a less price than he sells similar machines o Imerican buyers, the anti-dumping clause is at once made to apply, and a duty up to firteen per

American seped on mese Canada. ouraged by protection in the hoclurers are en couraged, by protection in the home mably high level. They are restrained by our anti-dumping law from selling at anything less than this same unreasonably high price in the Canadian market Thus, the Canadian cream-separator manufacturer is in reality given a very effective measure of pro tection, and the farmer who thinks he is buying a separator in a free, open market, is really be
ing handed a very neat thing in the line of gold the samf: in tin sheets.
."The same thing occurs in the case of tin in blocks, plates or sheets. Tin in this form is the establishments turning out finished tinware. This raw tin is also on the free list, but he is likewise subject to the anti-dumping enactment. Thus, from selling in Canada below the price charged at home; and, as the home price is made artificially high by home protection, competition from the
United States in tin sheets is also made non effective. Thus, the raw material of our manuotherwise would be; but as these manufacturers have a protection of thirty-five per cent. under
the ordinary tariff, plus the surtax as against ierman competition, and have succeeded in position to add the extra cost of the raw matepatient consumer to pay the bill.
BOTII BOO NTY ANI PROTECTION. nection with the application of this anti-dumping part of the law to free goods is found in the case
of steel rods. As a means of encouraging the
tanufacture of stecl in this country, resort has manufacture of steel in this country, resort has been had to a liberal-one might almost say to a
protligate-system of bonusing. A bounty is paid
from the lominion treasury on all the pig-iron from the Dominion treasury on all the pig-iron
made in Canada; another is paid when the pig is
turned into steel, and a third when the steel is Curned into steel, and a third when the steel is
transiormed into rods, the latter bounty being $\$ 6$ per ton. The Dominion Iron and Steel Company
alome received nearly one and a quarter million
dollars out of this bounty fund in the alone receited nearly one and a quarter million
dollars out of this bounty fund in the year end
ine with March last, over $\$ 347.000$ of this sum
being on rods alone. In order that the consumrs of rods might not be taxed at both ends-first urers, and then in the form of excessive prices paid for steel as a result of protection against But here, again, what is wiven piaced on free list. ithdrawn with the other, the anti-dumping ause being applied against rods brought in from abroad in any case in which the importer secures untry of purchase. d
WHERE PROTECTION GOES FULL LENGTH. -This underhand method of protecting the manufacturer is, however, in its effect on the con-
umer, not to be compared for a moment to the ffect of the regular tariff, plus the German surtax, in cases in which the protective policy is
open and avowed. Take enameled ware as an example. In this line, outside competition Nould, under normal conditions, be mainly from ermany. But German imports are held in check
by the regular tariff of thirty-five per cent.. plus by the regular tariff of thirty-five per cent., plus
one-third. The effect of the restraint on trade thus created is seen in the fact that, in the year
ending March last, only $\$ 25,399$ worth of nameled ware was imported from Germany, and the duty paid on this was $\$ 11,852.78$. This was
at the rate of almost 47 per cent. By the time of pack packages, ocean freight, and extra cost
of par ocean transport were added on of packing for ocean transport were added on,
the protection accorded the home combination, as against Germany, must have amounted to at east 50 per cent. It is no wonder users of enameled ware have to pay tall prices ; it is not
surprising manufacturers of such ware are growing in riches almost as fast as are the beneficiaries of the railway-subsidy system.

## Royalty on Mines.

Why should a royalty be imposed on the niner? Is it honest? Does it deal out justice to il men alike, or is it to the interest of the armer to oppress the miner? I would veture to say no, for the farmer wants a strong home ines is the only industry that will ever give the armer that market. Let us have a comparison hat may serve to explain the matter to us. We may say a man has an estate worth $\$ 100,000$, and that he had a ramily of ten sons, and the father divided his property wit his sons evenly,
giving each one $\$ 10,000$. Then we may say that seven of the boys did decide on investing their money in something that entailed little or no isk or chance of losing their money, so each of the remaining $\$ 2,000$ they furnished the farm with seed, tools and other necessaries for farming, and if these men carry on their farming in a good,
up-to-date farming style, success is sure to be
But now comes the other three brothers, and hey have made a choice of prospecting and mining, even though a great many men have proved yame of chance, and many a man has lost all he had in like business. But still, it is necessary. or the benefit of the farmer, and all other prohe three brothers each secured a mining claim at some price from the Crown or individual, and they started up their business by buying mining ools-and this helps the manufacturer. Then, laborer ; and next they go to the farmers and buy their' provisions from them, and this makes Che market for the farmers. But the first one of his mining claim was no good. The second brother did better; he got mineral from the first blasting, though not rich. He hoped that, in deepening the shaft, it would get rich enough to
pay all expenses and give a net profit; but before he struck it rich his money failed, and he was compelled to stop the work. And this would be naim and get his money back. may sell his The third brother is more successful; his
claim produced rich ore from the start, and he is ble to continue his mining and pay all taxes and pyaky, ard other expenses, and still have a net roft. But even in this case, why should the iarmer has a good crop, he does not care to
give a royalty from it to the Crown. Neither hould the miner have to pay it.
Now, I am a farmer, and have done some prospecting, too; but I lost money at prospectng, so I know well how money is lost at it. I prospector and miner on the back, and say, " Go will press the Government to give you fair play.

THE FARMER'S ADVOCATE
Incorporated 1885 the TRIDERS BANIK OFCMINOA

Capltal and Surplus, $\$ \mathbf{6 , 3 5 0 , 0 0 0}$. Total Assets,

34,000,000.
One of the greatest. helps in Account. The desire to increase it, and the habit of at once de-
positing money received, drawing it out only as required, develops the habit of saving, and brings you out at the end of the year
with a snug sum, that would otherwise have slipped away.
\$1.00 opens a Savings Ac-
count. Why not do it NOW ?
THE BANK
FOR THE
PEOPLE.
One of the 85 Branches of the Traders Bank is probably con-
venient to you. Your account is invited.

MARKETS.

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Montreal.
The local market for cattle has im-
proved. Fine stock was very scarce and
difmeult to obtain throughout Ontario
dital

IMPERIAL BANK OF CANADA
chartered 1875
Capital Authorized $\$ 10,000,000,00$
$5,000,000,00$ Capital Paid Up Rest,

SAVINGS DEPARTMENT $\$ 1.00$ opens an account.
paid at highest curient rate from date of deposit.
Farmers' sale notes discounted.
Branches throughout the
$\qquad$
oats,
loads.
50c.
o 49 c. c.; No. $4,48 \mathrm{c}$. to 48 \&.c.
Feed. - The market for bran continued Feed.- $\$ 2$ to $\$ 24$ per ton, very little
firm, at $\$ 22$ to
being available. Shorts were in good demand, and prices were $\$ 24$ to $\$ 25$ per
ton, in bags. Cottonseed and oil cake ton, in bags. $\$ 32.50$ to $\$ 35$ per ton.
were quoted at
Hey.-The market was steady, at $\$ 12.50$ to $\$ 13.50$ per ton for No. $\$ \$ 11.50$ to
$\$ 12$ for No. 1 extra; $\$ 9$ to $\$ 10$ tor No. 2 hay; $\$ 8.50$ for clover.
$\$ 7$ to
Seeds. -Demand for seeds of different Seeds.-Demand for sevid or diferent
sorts is increasing daily. Prices were
steady, as follows: Red clover, $\$ 13$ to stady, aso lbs., in bag lots, Montreal;
alsike, $\$ 16$ to $\$ 18$; timothy, $\$ 5.25$ to $\$ 6.50$.
Hides Hides. - The market showed luttle change
Demand was exceedingly dull Demand was exceeding about as bad as
quality of the hides was
it could be. Spring lambs have commenced to come in, and dealers quoter 10 c . each for their sking, although very
few of them were offered. They quoted
Tc 8 c . ic. beef hides, respectively, and 12c. and
14 c . for Nos. 2 and 1 calfskins, and sold to tanners at tc. advance. Sheepskins
were $\$ 1$ each, and horse hides $\$ 1.50$ for
No. 2 and $\$ 2$ for No. 1 each. Tallow was steady at 1 tc. per 1 b . for rough, to
3 tc. and 5 c . to 6 c . por lb . for rendered.

Chicago
$\qquad$ teers, $\$ 4.40$ to $\$ 5.50$; Western steers, $\$ 1$
o $\$ 5.50$ stockers and feeders, $\$ 3.50$ t
5.50 ; cows and heifers, $\$ 1.90$ to $\$ 5.65$. Hogs-1,ight, $\$ 6.55$ to $\$ 7$ mixed, $\$ 6.6$
 Sheep and Lambs,-Native, $\$ 3.75$ to
$\$ 6.40 ;$ Western, $\$ 3.75$ to $\$ 6.50 ;$ year-
lings, $\$ 6.30$ to $\$ 7.40$; lambs, native, $\$ 8$ \$6.30; Western, $\$ 6$ to $\$ 8$.

Buffalo. Hogs-Heavy and mixed, ${ }^{87.35}$ to
$\$ 7.40$ : Yorkers, $\$ 7.10$ to $\$ 7.35 ;$ pig 6.60 to $\$ 6.75$; rough
dairies. $\$ 7$ to $\$ 7.30$ Sheep, and I, ambs-Lambs, $\$ 8$ to $\$ 8.50$
earlings, $\$ 7$ to $\$ 7.50$; wethers, $\$ 6.50$ to British Cattle Markets.
$\qquad$
TRADE TOPIC
ands of all kinds, guaranteed pure and hish germinating power, are advertise Ther column of this issue. This firm
us wained a reputation for supplying
mong theed at recials mentionable are mon

APRIL 8, 1909
QUESTIONS AND ANSWERS


 stated, otherwise satisfactory replies can-
not be given. reply by mail is required
to th. When arent
to trgent veterinarv to urgent veterinary or
$\$ 1.00$ must be enclosed.

Miscellaneous
COST OF ACETYLENE LIGHT Have been much interested in the sev-
eral articles re acetylene lighting, and would ask you to inform us, through
your paper, the cost of installing lighting your medium-sized farmhouse? Perhaps Euron Co., Ont., or P. C., Essex Co.
Ont., would please inform us, through your paper, their experience regarding
first cost, etc.
C. ${ }^{\text {E. }}$ R. Ans.-In The Farmer's Advocate" o
January 14 th, J. B. T. stated that his generator had previously been piped, but he
house he
eetimated the whole cost of installation of a plant at from $\$ 150$ to $\$ 250$, accord ing to the style of brackets and chande
liers. His annual cost for carbide is
$\$ 15$ It anyone has found grater or less, he may oblige by sub-
mitting a detailed statement, indicating number of rooms in house, amount, kind
and cust of piping, etc., and all perCEMENT FOR CISTERN How much eement would it require for
round cement-concrete cistern ten feet in diameter. twenty feet deep, with rock
bottom, concrete to be three inches thick and plastered up inside? What propor
tions would the materials need to be The soil it is to be built in is heavy
cley. Would concrete three inches thicli
be strony be strong enough ? Ans.-The three-inch concrete wall would
comprise, approximately, 160 cubic of material. Cement and sharp gravel
in the proportion 1 to 5 should suit. If strict precautions are taken to avoid
loss, a barrel oi cenient will suffice or or
20 cubic feet of concrete. This would mean that eight barrels are needed.
Then, for plastering inside, it is customary to put on a layer one-quarter to one ${ }^{9}$ parts sand. This would require over two barrels more cement. It is a good
plan to again dress the surface with a
slopy mixture part sand, by using a whitewash brus Very little material will be required for
this process. Yes; three inches is suffiLEUCORREA (WHITES) Three of my cows, about four weeks
after service, will discharge white mat-
ter, and then in about a week will come in heat again. They are fed two gallons
of bran, two gallons of oats and barley each day, good timothy hay and straw. and are in good condition. Please give
cause and remedy. Is this contagious abortion; if not, what is it ? Will it be
likely to effect them next year; if so, how
can I prevent it?
w. T. H. Ans. - These are not the symptoms of
ordinary ordinary contagious abortion,
usually takes place from three to seven
months after conception. The condition
 What is commonly known as whites,
disease of the womb that is not contagious, but generally due to dificulty in
calving, retention of the afterbirth, o
excessive service, and is troublesome to excessive service, and is troublesome to
treat. There is no use breeding then while the discharge continues, and letting
hem run on grass for a couple of months. then breeding them to a young bull, may
be the best course to follow. Medical be the best course to follow. Medical
treatment consists in flushing out the womb once daily with about two gallons
of a iwo-per-cent. solution of creolin, heated to 100 degrees, and introduce
with an iniection pump. Also giving internal. twice daily, one dram sulphate
of irmen, ine dram gentian, and thirty


THE FARMER'S ADVOCATE

CONCRETE PIGPEN FLOOR Have concrete floors proven a success in pigpens, and, if so, what is the best
plan for laying a floor suitable for 100 han for laying a floor suitable for 100 concrete would be suitable for a footr.
C. M. T. Ans.-A cement floor, laid over a filling
of broken stone or coarse gravel, well Abroken stone or coarse gravel, well and a raised plank sleeping place pro-
vided in one corner of the pen, gives ided in one corner of the pen, gives
pretty good satisfaction in piggeries.
while in some respects a plank floor might be regarded as preferable, especialy for young pigs, the cement laid as in-
dicated is to be recommended on the grounds of durability, ultimate economy,
and sanitation. A pigpen floor is laid and sanitation. A pigpen floor is laid ment floer.
It
should have a slight
slope towards
the
outside door of the pen, towards a tile in the wall leading
to the outside yard, or else, as some few to the outside yard, or else, as some few
eecommend, to a central gutter running continuuusly through the center of one pen arter another, and discharging into
yard or tank at one end of the bullding. Do not allow the liquid to go to
waste. The slope of the floor necessarily depends somewhat on the plans of
Be pen. Be sure to have drainage away
her the pen. Be sure to have drainage away
from the trough, and be sure to provide raised plank sleeping place in one cor
ner of the pen. Whether it should be ner of the pen. Whether pigs to walk
raised high enough for the pigh in space
under is a matter of opinion. IR is limited, it is probably better to have the sleeping place elevated about three
feet. Lay the cement mixture in two
coats, the lower one two or three inches costs, the lower one two or three inches
thick, consisting of one part Portland cement to ten of gravel, and a finishing
oat, half to one inch thick, consisting of one part cement to three of fine, clean gravel, or one cement to two parts
of sharp sand, rammed and floatod reasonably smooth. Troughs may be built CROP FOR FALL PASTUREHAIRY VETCH-KALE-RAPE-

MISCELLANEOUS CROPS. 1. I have a ten-acre field in poor hear
intend sowing buckwheat on it, to plow under latter part of June, or early in
July. What would be the best crop to sow on it after plowing the buckwheat
under, for fall pasture for young cattle?
The land is a clay loam and is fairly level. 2. What sort of a cropper is sand or
bairy vitch?
3. What value as a feed, for young cattle and cows?
4. Is it an easy crop to grow? hog pasture, on a clay loam. Thousandheaded kale or rape ? 6. Has Teosinte, Lathyrus sylvestrent
and Pencillaria Zeaoider been experiment d with in this country, as a catte food
if so, with what results? Ontario Co., Ont. YOUNG FARMER. Ans.-1. Rape.
2 and 3. Prof. Zavitz sums ut up by
vetches produce a crop saying that hairy vetches proful as a pas whre for farm stock, especially hogs, a
cover crop in orchards, or a groen ma-
co cover crop in orchards, or a groon anil.
nure for plowing under to errich the soil.
It is especially adapted to light, sandy soils. In Canada, its chiof adaptation
has been as a cover crop in orchards, and in gardens from which early crops of
vegetables have been removed. The greatest obstacle to its extensive employ-
ment has been the expensiveness of soedment has been the expensiveness oing the
ing, nearly a bushel to the are be be amount recommended, from Germany, costing here in the neighborhood of $\$ 5$ a bushel.
it can be readily understood that its it can be readily understood
cultivation would not be extensive. the experimental plots at Guelph in the autumn and ripening in the fol average of 8.6 bushels of seed per acre
Being a legume, it captures nitrogen from the air, and thus, when fed off or plowed
under, adds to the fertility of the soil. under, adds to the
4. Not dificult.
5. Rape.
6. Teosinte has been tested at Guelph
6nt and pronounced not suited to Ontaric
conditions for any purpose whatsoever It somewhot resembles Indian corn in
habit of growth, and attains a height of

At Guelph, three feet appears to be
about the best height it has reached, the
germination is rather slow. Lathyrus germination is rather slow. Lathyrus
sylvestris, alias wood vetchling, or Wag
ner's everlasting pea, has been selected and cultivated in Europe as a perennial woods and thickets, it withstands drouth,
and when orice, establishod, gives very
large yields of highly-nutritious food. The sed is expensive, and germinates
very slowly in the open field. In fact defective germination is one of its great
 tity of it was grown
paper in London, Ont., though without
very satisfactory results. very satisfactory results.
John Percival, of England, in his Agri-
cultural Botany cultural Botany, says that it possesses
few, if any, advantages over alfalfa and
other leguminous crops at present in use few, on leguminous crops at present in use
on the farm, and seess little need of its
on introduction into England
We find no record of Pencillaria Zea oides having been grown in Canada, but
presume that if it were an especiallypresume that if it were an especially-
meritorious species, it would have won ALSIKE POISONING Is there such a thing as a fever or in-
fammation produced in white-nosed hommas, commonly termed ".alsike fever'"
if so, is it produced by contact with If so, is it produced by contact with
alsike clover It would seem to me re
In grettable that such a valuable clover
should be commonly condemned unles there be justification. G. G. M.
Ans.-Cases of alsike poisoning in Ans.-Cases of alsike poisoning in
horses and colts occasionally occur when the pasture is nearly all of alsike. There
is less liablity to the trouble where the is less liability to the trouble where the
pasture is a mixture of clovers and grasses. The symptoms are infamen
spots on the skin, turning to scales and dropping off, leaving exposed sores White noses and legs are said to be more
susceptible to the ailment than solid colsusceptible to the ailment than solid col
ors. As soon as the first symptoms are noticed, the animal should be remove
frem the alsike pasture. Treatment in ordinary cases consists in washing the
affected parts frequently with a five-per cent. solution of carbolic acid, and the application to the ulcers of drying pow
ders, composed of equal amounts of boric ders, composed of
DEPTH OF FIELD ROOT SEEDS How deep should field carrot seed bo
sown? Also mangels and turnips, for best results ?
Ans.-The depth to which any see
should be buried depends on its size, the moisture supply at time of sowing Some authorities advise burying seed to a depth equal to four times the diamete
of the seed. For many seeds this is of the seed. For many seeds this is a
safe rule. With mangels, perhaps, in a
well-pulverized clay loam, that would be ideal. If the soil is very loose and dry
on top. it may be necessary to put the seed deeper. Carrots and turnips, being secdall seed, cannot well be sown accord-
ing to the rule. Individuals will have ing to the rule. Individuals will have to use judgment in the depth of sowing,
in every case having a fine surface soil, placing the seed just deep enough to reach
the moist soil, and having a light roller follow the seeding machine to compac
the soil about the seed. Under average conditions the seed will lie about one uarter inch below this smooth surface.

GOSSIP
FOOT - AND - MOUTH DISEASE EM-
An order, under the Animal Contagious Diseases Act, dated April 2 2nd, from th
Department of Agriculture, at Ottawa rescinds the order dated January 25th 1909, prohibiting the importation fron
several States, of animals and other art Cles, and substitutes therefor an orde
maintaining the live-stock embargo only maintaining the live- Pock embaria. The
against the State of Pennsylvania. new order forbind the importation into
Canada of cattle, sheep or other rumi Canada of cattle, sheep or other rum hoofs, horns or other parts of such ani
mals (with the exception of cured meats sausage casings. lard and tallow), or of
hay, straw. fodder, or manure, from the hay, straw. fodder, or manure, from the
State of Pennsylvania. Dressed meats, and the dried, pickled, or salted, green-
cured skins, or hides, and the horns, hoofs, wool and bristles of such animals,
may be imported into Canada, after ship-

Cions to be made by the Department of
Customs, so long as such traffic originate ustoms, so long as such traffic originates
outside the said State. The importation of hay, straw, or other fodder, from the States of New York, New Jersey, Michi-
gan, Maryland, and Delaware, is prohibit ed, except as packing material for brealk-
gat able goods, but such shall be burned by the consignee immediately upon arriva,
Subject to the foregoing conditions, such ay, straw or fodder may be shipped All previous orders and regulations verning the points at which inspectio
live stock can be made for export live stock can be made for export to
Europe are cancelled until otherwlse or No Canadian cattle, sheep, or
dered.

ther ruminants, or swine, shall be per Europe, except through the ports of Montreal, Three Rivers, and Quebec, P. harlottetown, or Boston, Mass. Canadian animals for export to Europe via Portland or Boston, rly-appointed vetarinary inspector of the | partment of Agriculture, and certified |
| :--- | and otherwise fit for export. Shipment originating in or passing through

ronto, must in inspected in Toronto. Shipments originating, in or passing hrough Montreal, must, unless accom-
panied by a certificate of previous inspecUntil otherwise ordered, no vessel
real. Unt hat has touched at a port arry stock from Cana
gereford and shorthorn sale. An auction sale of the registered HeroArd and Shorthorn herds of the late
A .
Govenlock, of Forest., Ont., is advertised in this issue, to take place at the
farm, " Forest View," near Forest Stafarm, "Forest View," near Forest Sta-
tion, G.T.R. (Stratlord to Sarnia branch), on Thursday, April 15th. The "Forest View" herd of Herefords has made a splendid record in prizewinning at the
sing years, winning the senior and juntior iomale championships and the first herd
prize at Toronto in 1909.

## TRADE TOPICS.

There are evidences of a very large
The ear, espectally in lines purchased by
armers. The Page wire-fence Company, Limited, report March sales as showing n increase of over 40 per cent.
than in same month of last year.
"Last summer my mare went very lame with spavin. I was trying diferent bristers, and everything 1 could thik on
without success. I asked Mr. McLarty sure cure-Anchylos. I put it on the way be said, and it worked wonderfully, and (Signed) Henry Kinch.

In making preparations for the season's spraying operations, should be provided. The Empire King, ofered in this issue by the Field Force Pump Co., has many foatures that make
it popular. A strong, steady pressura is maintained on all the nozzles ; the hiquid is kept thoroughly agitated, and with every stroke of the pump the suction parts are made of brass. All kinds of sprayer.
a logue.
He left the farm when but a lad, his Ere long a city job he had, and lively Ho was his rapture. plunka up to ten He went from seven plunks up
whereat he proudly married, But never got a rai
week he tarried.
$\qquad$ ly is a pity !
The farmer looks in every mail for succor from the city. The farm is sold
But nothing comes. beneath the sherili's hammer,
or real life is hard and cold, not like


Good Accommodation in Local-option Towns.


I noticed in your issue of March
11th, a, farmer styling himsclf "Nemo ". writes from Lincoln CO
in regard to hotel accommodation local-option centers
vears ago last Januar
majority, and a repeal vote wa. last January, when there was neari as much of a majority in one polling
place for the by-law as there was in the whole township three years ag
When the by-law came in force wo hotels closed up, and, as it was apparently going
emo would perhaps call them, gave open up for a month. The other
hotel then promptly opened out. took charge of the latter hotel, and atisfaction of the general public
ver since. In fact, it has been ver since. In fact, it has been con-
ducted very much better than it was inder license; so much so that,
whereas commercial travellers used o shun the place in license days route so that they can stay here over night. Nemo may ask, Does it
vay? Well, I have not access to the tenant's books, but, to judge by approfitable business, and a very large majority of the people are well satnot, on an
license law.
Hotel accommodation is just like any other want of the public-it will party. Of course, when the bars are closed in any town or township, there may, for a short time, be
some little dificulty, if the hotel-
keepers see fii to close keepers see fit to close up, but the and rent or purchase or build another building, and open out for the is no doubt that a temperânce here is no doubt that a temperapce hotel pay a fair dividend, if properly conducted. And if it cannot furnish
meals and beds at 25 cents, why let them charge 35 cents. There is no honest man wants to get a meal at less than it costs to produce it, and
yield a fair living to those conducting the establishment stopped at a temperance hotel in Toronto, and have got as good accom modation as I could get in a licensed
hotel, and it appeared to pay the proprietor all right, for he was improving and making additions to his establishment. There is no just and
valid reason why a hotel should be alid reason why a hotel should b
ticensed to keep a bar for the sale of intoxicating beverages.
It has been proved beyond a doubt that alcohol in any form is a dam ge to the human system. I was
brought up a moderate drinker, and like friend a moderate drinker, and,
Nemo, looked upon all
lemperance workors as is temperance workors as ". fanatics,"
but I am graterul that I was led but I am graterul that I was led to
see the question in its true light. If friend Nemo had a daughter married to a drunken sot who abused his
wife, don't you think he would be
anvious't ancious to do all that he could
close up, the bars, so that tempta tion would be put, out of the drunk-
ard s way? In this local-option enter it has been demonstrated that, many keep perfectly sober who used
to be frequently drunk when we had the license system. If the money ag......nd tohacco and cigars, could be sand up, many people who are
now tivel vich. Alcohol be and tobacco re thin poisonous. Why do people
se thim? No farmer feeds poison hi horses or cattle. Then, why (1. ... admire ". The Farmer's Adbecause it is such a help
ars. We believe that it is
continent of America, and we are of the Bible and yet deliberately to refuse
very glad that it does not advertisce obecience to (iod's commands, as our whiskey and tobacco, and other poi 1 .ord warns us . That servant which
sons. May you long continue to knew his Lord's will, and prepared not sons. May you long continue to knew his lord's will, and prepared not
shine as a bright star in the jour- himself, neither did according to his will. listic firmament. ABSTAINER. Shall be beaten with many stripes."

The Quiet Hour. the Easter Story. fully say that he doubted the truth of


Not Only a House: A Home Also
against him of their own superstition, a sin. It is a mystery to see how many whom Paul affirmed to be alive.-Acts the Bible is telling the truth about life I seldom speak of the historical evi- here and hereater, or whether tery dence of the Gospel story, because I don't no religion can possibly be worthy of an xpect this column to be read by people educated person's belief. It is the only
who echo the airy statement of Festus- book which really throws light on the given in our text-that JESUS, who life beyond death-and we are all march"dead." ${ }^{\circ}$ And, even if men like Festus marvellous thing that anyone who has could be convinced by the overwhelming to die can be utterly careless about the


Suggestion for a Small House
Suggestion for a Small House
absolutely worthless unless their lives enter into. We have to die, and yet we ere the better for it. Satan knows can't die. No one, by wishing, can put
hat Jesus is the Son of God, but that out his own soul "like the flame of a nowledge only adds to his guilt while candle"-as people used to say, before we he is fighting against Him. S. James were informed that it was an unscientific works is dead," by saying: "Thou be- candle did not die, but was transformed fievest that there is one, God; thou doest into some other force. : the devils also believe and trem- $\begin{gathered}\text { But I am wandering from my subject. } \\ \text { Of what value is their abject fear }\end{gathered}$ Though I care little to convince unbe
God who is not reverenced or obeyed lievers, by argument, that the Founder
hem? It is a very terrible thing of the Christian relligion them? It is a very terribe thing of the Christian religion really rose from
a man to be convinced of the truth the dead; I feel the inportance of el
lishing the faith of those who want to feel sure that it is really true. From the
accounts of the visible appearances of the Risen Christ which are preserved to us establish, by many infallible proofs, the inct of His Resurrection-but only to His
friends. fricnds. And I believe it is much the
same to-day. The proots are there, if satne want to seek and find them; but they may be overlooked by those who don' feel especially interested, and they seem l'oets and painters and musicians hav been inspired by the beauty of Christ' marvellous Life, and have poured out the treasures of tneir imagination in the halo around the head of the King mate Him seem unreal sometines, and it is
well well to look through the flowers and
music of our modern Easter Day music of our modern Easter Day to the
solid fact of the first Easter. Unless fact, it may bests on a basis of historical beautiful, but it will be impossible to rest all our hopes on it.
It is either a Fact of history the greatest falsehood the world has ever Let rection story by what it has accom plished. I have no new proofs to offer have been put before you a few which students.
Let us see see just what would have been the natural result of the death
of the Nazarene Leader if there had been of the Nazarene Leader if there had been
no Resurrection. The little company of his friends and followers, having no money
or infuence, would have scattered sadly or influence, would have scattered sadly
to their homes. They would have had
no to their homes. They would have had
no object in trying to make people believe in One who had fallited even to save
himself. In a generation or two the himself. In a generation or two the
name of Jesus of Nazareth would have name of Jesus of Nazareth would have
been almost forgotten. But what do we
find This little boly been almost forgotten. But what do we
find This little body of disciples glory-
ing in the Crose, which was the ing in the Cross, which was the symbol and joyfully aer's ahameful death, eagerly
and
imposible impossible task of making the world be lieve that He was alive. How they suc
ceeded, the pagea of history coeded, the pages of history can tell us.
It is an historical fact-a fact which no educated person can doubt-that the Founder of the Christian religion was put to death by Pontius Pilate, and yet that
in the face of terrible persecution, in in the face of terrible persecution, in great Roman Empire called itself Chris-
tian. And it has gone on conquering the world ever since. gone on conquering ened nations are those who call Josus
their King. It has stamped out sucl therr King. It has stamped out such
terible evils as infanticide, slavery, the murder of helpless prisonerb, the tortur
of criminals, etc., wherever it has take deep root. Christ said He was the
Light of the world, and, as a matter of fact, wherever He reigns the darkness dies
out. There is pleanty of wickedness in Christian countries, but that only proves my statement; for the people who harden hemselves in lives of deliberate sin, ar
never Christians in more than name. really serve Christ, from the heart,
ight against all kinas or evil.

$$
\begin{aligned}
& \text { There is no eflect without a cause. } \\
& \text { The Great, Victorious Christian Church }
\end{aligned}
$$ could not have grown and prospered and

accomplished such marvellous results if it had been dead, if the Living Christ had
not been working in it all these centuries. Millions of the best people in joy and peace and fearless courage, no matter what dificulties or dangers faced
them. The greatest witness to the truth them. The greatest winess to the truth has always been its power to inspire
fresh and eager love and devotion to God and man in the hearts of men and

Then there is the weekly witness of Sunday. Some wonderful Event must have caused a body of Jews to change
their rest-day from Saturday to Sunday their rest-day from Saturday to Sunday.
If it was not the fact of the Resurrection, what was it? Those who deny that great miracle should offer us some other good reason for the changed day
The burden of proof lies with them. Then there is the Sacrement of the Lord's Supper. Why should disciples of Lo loved Master take the solemn Memorial of His death and call it their grea "Eucharist," or Thanksgiving ? Onl the Resurrection could transiorm the re-
 sorrow and shame.
Thien there was the witneas of the

 or iote, but had been changod into opiritul) body. The undisurbect foldid

 bean about the sacrod Hoad Not hothing


What tho spirttual body is inge we can. atings wite ftit into our own experienco Probably S . Potet and s . John, who had





 on tho ground inat ind inver happen" -a




 daro to asy that anything is impoesic

## Current Events.

Port Arthur will build a new Col legiate Institute and gymnasium, cost of $\$ 65,000$

Four thousand delegates attended the great Laymen's Missionary Move Toronto, last week

Count Zeppelin's airship recently made an ascent to an elevation eached by an airship.

Nine officials of the Marine Depart ment of Canada have been dismissed $y$ and two superannuated, as a result f the evidence obtained during Judg Cassel's investigation last year

President Taft has already struck a note which is the " masses" in
into favor with ted
the United States, by speaking the United States, by speaking
strongly in favor of reducing the tar-

The Massachusetts Senate has enThe Massachusetts enate colling upon
dorsed a resolution, cell President Taft to negotiate arbitration treaties with all the nations of the world with whom suen negotiated, with the end of bringing about limitation of armaments. $\left.\begin{array}{c}\text { They also } \\ \text { urge President Taft to appoint a }\end{array}\right]$ urge President Taft to apposist efficiency to prepare a plan for the considera tion of the Government, to be pre sented at the third Hague Conferenc
in 1915 . Theyll come again to the applo tree

$\qquad$

The Insle Nook.
On Child Training Dear Dame Durden, - I was much pleased When I read your suggestion to the Ingle
 smeller a great lover of children, ther, my favorite being the thin babe in long clothes, when often
there are more clothes than baby. Some people say they like children best, when
they are big enough to be "sassy." of
course, that is not what they mean, but course, that is not what they mean, but
hey enjoy the ready answers from the they enjoy the ready answers rome are
little chatterers. Those same people are
very very apt to go too far and tease until
the little ones do really become impudent. Then the amusement becomes an evil.
I think the main point in training
children is that when one parent (sensible one, of course) is chastising a chilld, the
other should keep quiet. of course, the child will look to someone for sympathy. If the other parent goes to sympathize,
let him or her do it in the right way, but under no consideration cast retection on the one who enforced the punishment. think that a great number of children
are "spoiled" with what each other has done in the
presence of their children.
Some people believe in staying by the Some people believe in staying by the
old rule, "Spare the rod and spoil the


Chateau Bigot, Near Quebec
The ruins of the famous Chateau, Beaumanoir, as they are at present
two hard. 1 think that firmness from or something much better than zinc. need a harder one. I nover tease chil- one with zinc top, as when it has been dren, and always try to keep a promise heeping a promise, that they learn $\begin{gathered}\text { uncleanly appearance. } \\ \text { Would also like to know the new spring }\end{gathered}$
 Here is a wrinkle that was given to be still in pre-eminence this summer ?
mee about ten years ago, and I F will pass ${ }^{\text {Someone has remarked to me that satin }}$ me about ten years ago, and I will pass Someone has remarked to me that satill
it on to the younger mothers. When the waists will be popular this spring. And
little tots are between the age of one what color and style for skirts? Are little tots are between the age of one what color and style for skirts? Are
and two years, sometimes they take a they still to be pleated? We would like and two years, sometimes they take a they still to be pleated? We would like
notion to throw themselves on the floor Mame Durden to give us some of the new
and hick when things don't go to please spring and summer ideas on dresses, and hich when things don't go to please spring and summer ideas on dresses.
themul Then take a litcle cold water and jackets, and hats.
surinhle it in their fuces and you will
Could anyone sprinhle it in their faces and you will Could anyone give a kood recipe for
find atter a iew seconds they are quite tomato mustard? Alchough tomateos
willine willing to take advice of course, the
greater the resistance, the more wate child
$\qquad$
Well, dear Nookers, I must close, with
best wishes to all, and what better could best wishes to all, and what better coul
I wish you wives and mothers than houseful of healthy, happy children.
Ke

$$
\begin{aligned}
& \text { Kent } \\
& \text { I was } \\
& \text { note. } \quad \text { I }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Kent Co. } \\
& \text { I was pleased to receive your private } \\
& \text { note. I wish to offer you my sympathy. } \\
& \text { Contented One. You are very brave. }
\end{aligned}
$$ note. I wish to offer you my sympat.

Contented One. You are very brave.
 makes a large quantity, but, we find
none too many, none too many, for they, keep well: Four
cups white sugar, 4 cups sweet milk, cups white sugar, 4 cups sweet milk,
cups lard, 5c. oil lemon, 5c. balking monia.
ing am ing ammonia at the drug store, and,
intending to use it soon, get the druggis intending to use it soon, get the druggist to pulverize the as otherwise you will
need to crush the lumps. the milk, mix with the other ingredients,
roll out and cut and bake roll out and cut and bake as cookies.
Megarding the packing of Regarding the packing of eggs, I have
not tried the water-glass, but have tried a number of other methods, and find the old-lashioned way of packing in salt the
best and surest. I
I would like to know it there are
kitchen cabinets, with white enamel tops,
most in flower. The main consideration,
or joter net.
I should say, is to get something that is
really becoming.
In regard to your kitchen cabinet,
write to the
Chatham, Manson Campbell Co..
Ont.,"
manufacturers, mentioning "The Farmer's Advocate." They Will give you full particulars. Perhaps
you had better ask them for a catalogue.
as they as they manufacture a great variety of
kitchen cabinets, and at a great variety

[^1]To lighten the work of ironing, when
taking the clothe from taking the clothes from the line, care fully smooth and fold those that you do
not intend ironing. Many things seem not intend ironing. Many things seem
sweeter without, and if you are not strong, it may save you a doctor's bill
to leave them. Such things as blankets. knitted underwear, stockings and roller towels, are among the articles that can of the romily; without marring the peace similar material is used for children's every-day blouses, much work can be
saved. Shirtwaists, with adjustale lars and cuffs, are a saving of time, as the and cuffs, are a saving of time, as
they be washed separately. When
ironing small articles, such as. ironing small articles, separately. Wuan as handker-
chinfs and napkins, draw your high Chi.fs and napkins, draw your high
kithen stool near the ironing-board, and
-it down to iron them: it will rest you

A cupboard, placed in the wall between dining-room and kitchen, so that it opens
into each room, is a great convenience into the lower part of the cupboard
In the
dumb-waiter could be arranged with a dumb-waiter could be arranged with a
door, so that no cold air could come up door, so that no cold air couplaced on a
trom the ecllar. $A$ basket plater
amall table, with rollers, will quickly small table, with rollers, will quickly
carry dishes, clean or soiled, or food, desired, to the cupboard, to be taken of
on the kitchen side, thus making one trip on the kitchen side, thus making one trip
do instead of going many times back and do instead After washing dishes it is a goo plan to put them back on the dining-
room table in readiness for the next
meal. A table covered with zinc comes meald to place hot dishes on in the wall, to be filled from the outside, with a lid opening into the kitchen, saves many steps and much untidiness. If a
large packing-box, not more than two feol carpet, and baby put in with or carpe, ana from drafts, and out of
he will be safe
mischief, and you mey leave the room mischief, and you may leave the room
for ae few minutes knowing that he is
sale."
L. M. C. Kent Co., Ont.
Note to "Anxious Mother" and
 your first inquiring letter, but felt a lit-
tie timid in writing; I left it for some of the others. I raised a baby on the
bottle, And had just the trouble you are having, when I was told to stop drugs
and give it cream instead. I did, and that was the last medicine I had to give.
Start with a couple of teaspoons in each Start with a couple of teaspoons in each
teed and add more as required.
is easier to digest gave my baby the cream and milk an found it the best food I could get.
the last she got nearly half cream. you use sugar, use very little, and a ways brown sugar.
I noticed Dinah's query on how to save on that subject, and, as a rule, I just
came to the conclusion that no two houses are just alike, and no two women
work just alike and everyone thinks her way right. 1 think so much de eniently laid out, it is hard to plan the irst letter to the Ingle Nook, I must not
stay too long.
IN EARNEST.

## Stomach Trouble,

A Reader," Grey Co., Ont., writes ble. As this may arise from several
causes, the advice of a physician who can give personal examination should be

Rag Rugs-Chocolate Cake Dear Dame Durden,- - wonder if you
ny of the Chatterers can give me a suggestions about making rag rugs.
would like to have one made for sitting-room, but our weaver does not
seem to have very many ideas about patterns, colors, etc. As we use the room a great deal, it would have to be And will someone please tell me how to
can sweet apples, with lemon added to can sweet apples, with lemon added
them ? will find the following very nice, as well Chocolate Cake. -1 cup white sugar,
yolk of 1 egg. 1 cup buttermilk, 1 teaspoon soda, ${ }_{2}$ cups flour, t cake unsweetened chocolate melted in
spoon butter, and added lastly.
I table with soft, whiter icing.
AN INTERESTED READER. Possibly the following from Ladies Home Journal wople as well. You may not care for the blue and white, but
other combinations could be used-brown ther combinations could be used-brown nd yollow, or brown and tan; green and
an mote in 'House Beautiful' some time ago adsend using three strands of racs instead
in order to make the rugs heavy to lie fat without tacking. This
would require a great many rags,
and uld think results would be good.
the Home Journal article:
for Rugs.- Perhaps, because

THE FARMER'S ADVOCATE
Colonial, the woven-rug idea sent by a
ew York girl appealed to me as one New York girl appealed to me as one ol smarty' also 'gave a party' at the same ". 'When Hilda was going to be mar-
ried,' she writes, 'the rest of us longed to do something nice for her-something different from the hackneyed shower; and,
of course, it was Dolly (the second) who crystallized economy, practicability and beauty into one happy whole. She isued invitations for an ordinary Thimble
Party, but each girl was privately re carpet-rags-blue, white, and boun and
white. What a happy resurrection of White. What a happy resurrection of waists ! Even discarded undergarments
and stockings were useful, though all the and stockings were useful, though all the was dipped in a soft-blue dye. Our best white came from worn sheets and table linen that some of the mothers donated.
And, because allowance must be made for our love of chattering, all the cutting.
dyeing and part of the sewing were done at home beforehand. busily to work. Three of the girls sewed
plain white rags, three plain blue, three plain white rags, three plain blue, (hree
alternated a blue rag and a white one.
and the other three of us sewed in hitand the other three of us sewed in hit-
or-miss fashion the ginghams, calicoes and or-miss fashion the ginghams, caliccoss and
percales in which the two colors were mixed. At the end of the afternoon we had our twelve pounds sewed. One of the white balls was kept for use in the
borders, but the other two were made borders, but the other two were made
into skeins, and their ends dipped into
biue dye. These give a lovely effect. We hue dye. These give a lovely effect. We
ound an old German weaver who makes beautiful rugs, furnishing the chain and
doing the weaving for twenty-five cents a square yard, and using two pounds of rags to the yard. We found it better
lot him use his own original designs. let him use his own original designs, as
they were prettier than anything we
could plan; but we stipulated that he use chey were pretier than anything we
could plan; but we stipulated that he use
the natural -colored chain ( $a$ creamy the natural - colored chain (a creamy
white), and Dolly's mother slipped in a white), and Dolly's mother slipped in a
small ball of black, and one of yellow, which, with the plain blues and whites, made fascinating borders. ${ }^{\text {./ }}$ 'The twenty-five cents which each of us donated for the weaving was the cost
$\qquad$
$\qquad$ bave been an interested reader of "The
Farmer's Advocate," especially the "Home Magazine." I
blessed
and have many times been $\begin{aligned} & \text { trengthened by "Hope's" }\end{aligned}$ blessed and e of year our children are more liable to have croup than at any more liable to have croup than at any
other time, although they have had it in other time, although they have had it in
summer. Two nights ago, one of our
children awoke with that harsh bark children awoke with that harsh barh
which used to strike terror to our hearts, which used to strike terror oupwer to
but which has for us lost its power
alarm. After treating him, and whlle
 lying awake for a time to
breathing. 1 determined not to tot many
det days go by before writing this letter.
Several times I have thought I ough to write to tell the mothers of croupy

children, of a cure for the disease which we found in a little farm paper. It is very simple as well as effective. | We always keep a bottle of raw linsee |
| :--- |
| oil and a teaspoon in our room, and i | I waken and hear a child with labored

breathing. II rouse him up if he does no ment.
if the attack is severe, I give a tea If the attack is severe, I give a tea-
spoonful of the oil, if not so sovere hall
a teaspoonful is sufficient. Next I wet a easpoonful is sumicient. Next 1 wel
one end of a towel, enough to cover well
the throat. in cold water. bind this on with the dry portion of the towel, fas
tening with a safety-pin. The while tening with a safety-pin. The while
talk soothingly and brightly to the
child who is usually very much fright child, who is usually very much fright
ened. To help the cure, the little nerve ened. To help the cure, Next cover up warmly in bed, and in a few minutes the
breathing is easier and the child falls asleep.
Often
one treatment is sufficient. bu the oil may be kiven again in two o three hours, if necessary. If the pation
does not sleep, the cold towel should be does not sleep, the cold
changed every fitteen minutes., and a flan
nel nel may be held round the
heated to lay oo the chest.
Hoping this treatment may be as ben ficial to some mother's child as it ha been to ours. mother's child as it has
Dundas Co... Ont.

Cleaning Zinc-Recipes Dear Dame Durden,-Someone asked in
your magazine how to clean zinc and keep it bright. I find "Bon Ami". does but does not leave as bright a finish. Not many sinks in the country can be
called cosy corners but I wish you could called cosy corners, but I wish you could
see mine, and you would think the name
suited suited. We have a shelf running around
three sides haved with zinc which ex tends up the beck (cut with scroll at
top) and one side to form splasher. top) and one side to form splasher. We
marked and cut zinc with scissors, and it
itg fits to perfection. 1 find it easy to
clean and always. looking nice. The
pump and pump and iron eink I painted with
aluminum paint, and with a white basin it looks fit for a king to use. Some day I hope to have a white sink. ver madossoms, and it is delicious. Will send a recipe for salmon salad. It
makes a pretty dish, and tastes as good Was it Lankshire Lass that gave us the maple-syrup recipe? I often make it,
and it is fine. We have a large maple grove. youngest, a hoy near seven, at-
Our yon tended the Macdonald Consolidated school,
about five miles from our home, the first Consolidated school erected in New
Brunswick. A short time ago the hand Brunswick. A short time ago the hand-
some structure was totally destroyed by fire. In our little country districts we feel the loss keenly, but hope to rebulld I would like a good recipe for "Nougatines."
Salmon Salad.-Drain a can of salmon,
remove bone, skin. remove bone, skin, etc., arrange on shaved
cabbage, and serve with the following cabage, Heat hall teacup each vinegar
dressing: Her (or less sugar, if liked), add a
and sugar (or and sugar (or less sugar. in ound mustard
heaped teaspoon of groun
nlended with two rounded tablespoon hlended with two rounded tablespoonn
soft butter, salt and pepper to taste. soft butter, salt and pepper to taste.
When it boils remove from fire, sadd hall
When cold teacup thick, sweet cream. When cold,
pour over cabbage, and sprinkle with pour over cabbage, and sprinkle with
little of the shaved cabbage to finish. little of the shaved cabl FERN.
King's Co.. N. B.
Possibly the above method of cleaning zinc may afford a suggestion to Evelyn
E. Can any of the Chatterers send re E. Can any of the mard and Nouga-
cipes for tomato mustard
tines, as asked for in this week's Chat?
"The Farmer's Advocate"


7 Girl's Dress,
6287:-The quantity of material re-
quired for the medium size (12 yoara)
${ }_{4}^{5 k}$ yards 24 , 41 yards 32 or $3 \&$ yands


6290 Fine Corred
$8 k 1 t, ~$
22
quired for the medium sizo is 7 zt yards 24 or 2 of tot yards 32 or 4 in inches widid or
 length, when material has figure or nap,
$5 \$$ yards 44 for round length, 5 yards for $5 \frac{1}{2}$ yards 44 for round length, 5 yards for
walking length, when material has neither Walking length, when materal has noither

Ggure or nap, width ot ot skift at at lower | figure or map |
| :---: |
| acgo 44 yardi. |



Dzanan by Mar Mammon
3157 Three-Piece Skirt.
gown of the season serves a more practical purpose than this one. It can be made from cashmere and the edges of the collar and cuffs embroidered, as in one of the pretty checked wool materials or the skirt can be utilized for heavier material, while the blouse is made from silk, from flannel, from linen, or some waisting of the sort, and, again, the en ire gown will be found most satisfac tory if made from linen, pique or rep, as all these materials are to have extende vogue throughout the coming season.
For the medium size will be required For the medium size will be required,
for the blouse, $3 k$ yards of material 21 or 24 , 3 z yards 32 or $2 \downarrow$ yards 44 inches wide, $t$ yard 18 inches wide for the chemisette; for the skirt 64 yards 24 o

The above patterns will be sent to an subscriber at the very low price of ten cents per pattern. Bo carefor to give Correct Number and size of Pattern Wanted. When the Pattern is Bust Measwe, you need only mark 32, 34, 36, Mengure, 22, 24, 26, mar be. When Wals Meas. 22, 24, 20, or whatover fotern write hen fy fige resenting the age. Allow from one to two weeks which to fill order, and where two num bers appear es for waist and skirt, close ten cents for each number. If only one number appears, ten cents will be

Address: "Fashion Department," "The


The only nourishment that bread affords is that which the flour contains. Bread baking is merely putting flour in appetizing form.

Flour making is merely putting wheat in shape for bread making.

## Royal Household Flour

is made from carefully selected Manitoba Hard spring wheat. Every pound is almost a pound of food; clean, and nutritious

It goes farther, does better baking and is more satisfactory in every way than any other flour. Ask your grocer.
Ogilvie Flour Mills Co., Imitied, Montreal.


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

$\qquad$
${ }_{\text {Above its }}^{\text {moan }}$ ithorns:
Ind oh, I hid me in my mother's bed
To tell her what the Angle caid?
My Baly, my Baty, what Love-names
I know not one that's hall as sweet as
thout
icared is my heart its very own to calm
thee
And kiss thee, as 1 kiss thee now:
Mother's dear Maby! Life of her life

eyes'
Mirroings but just
my Honey cup, my Star, my azured

arny;
Above thy preus head no storm shall
ever lower
Nor stone these litlle feet shall ever
$\stackrel{r}{\text { har }}$

| wor weep For sorrows done Hid they not say My sion ! Once, beneath a star Years afar We slept, The Child and I; Every azure vein lve kissed eet, and wrist Baby-curves that lie Hid for but the mother-eve ‥ Theday say To-day?" |
| :---: |
|  |  |
|  |  |
|  |  |
|  |  |

$\qquad$

For the grave
Mother's lips that from the light
Kiss thy oyelids down:


SAVE 20c PER SHEEP


The Roundabout Club

On Hindu Marriage



Dear Friend,-S Sinha tells us in his
letter published by you in sour paper
some time ago that in some time ago, that in a "Hindu mar-
riage ". there are:

- Two souls with but a single thonght,
Two hearts that beat as one.. Well, 1 confess I $\begin{gathered}\text { cannot understand that. } \\ \text { His arithmetic } \\ \text { puzzles me. } \\ \text { liven the }\end{gathered}$ lowest caste Hindu has at the leat two
wives. Most Hindus have several; some
have several hundrods. How does Mr. Sinha make out the two ouls? $\frac{\mathrm{Mr}}{\mathrm{I}}$ who have the souls? Do the two wives
possess the 'Iwo souls ?" Doesn't the possess the "two souls?" Doesn't the
husband possess a a "soul?". Does the husband possess one of these "two souls,"
and all the wives (2 or 400, or more),
the other ? Or does he poscess one and only one of the wives the other Now,
which of these wives possess the soul? dune that they have none? Were they each born with one soul, or were they
born without souls? Perhaps they had already got one wife; or, most likely
the the husband lost his when he married
again with his first wife still living in that case, some of the wives, must still be without a soul.
tunates But if they are
" Two souls with but a single thought, why does a Hindu desire to marry a lowest they seek European women as wives. This fact is very suggestive.
Even when he has had a Hindu wife, Even when he has had a Hindu wife, he
looks out for a Furopean wife, ho is so dissatisfied with the Hindu woman. This is another sort of Hindu marriage,
but the arithmetic is the same. For meny Hindus have Asiatic wives, as well
as European wives, too-not one Eiropean wife, but several European wives :
Even in this case, I cannot make out the
E. "two souls." Perhaps the Hindu gen-
tleman has one soul, and all the Hindu wives the other, and the Europeans none,
for these certainly deserve none; or he has one, and the Europeans the other,
whilst the poor Hindus have to go withWhilst the poor Hindus have to go with-
out; or maybe he has one, and both
Turopeans and Furopeans and Asiatics only one between
them; or he has none, and European and Hindu wives have the two souls; or all
the Hindu wives the two souls, leaving the Hindu wives the two souls, leaving
none for the Hindu husband and the
Firoren wive European wives.
There is still another kind of Hindu husbands. But I cannot make out only "two souls" even in thils case.
It would be very interesting to know
how souls" in a "Hindu" marriage. Babu Sinha says: "I think I could
have explained the matter more clearly if 1 would not have been a bachelor." As he is not married, he khat does he know about the
qualified. What dion married state? He has theories and
ideals, but not the reality. The facts upset his hypotheses. What is the use
Whasswork? How does he know that such and such ideas does he know that in the hearts married man, he could not tell. The
Hindu wife can tell. She knows by exrefience. Also, wivers confide in wives.
As for Hindu women not caring to re marry, they are mostly prevented from
doing so. Sometimes she does not redoing so. Sometimes she does not re-
marry because she has no chance to do
hee does marry again when she can
 same as the women of all nations. Some
certainly do not prefer to suffer the tor-
iurce Hainy do not prefer to suffer the tor-
lures of a second time. Others. again. Would like to re-marry, for lightning is not supposed to strike twice in
the same. place. They hope for better Sone. wish to be supported. Some
Suck. . Somer

APKIL \& 1909


THE FARMER'S ADVOCATE

## Old Clothes Made New With DIAMOND DYES

Diamond Dyes will renew the life and beauty of those discarded articles of feminine apparel which you have tucked away in bureau drawers and other corners of your home

Diamond Dyes will rejuvenate and invest with usefulness all of those soiled and faded ribbons, those feathers of ancient hue, those objects of art needlework, those fabrics from ripped-up dresses, and lend the color-sparkle of fashion to any texture which a search of forgotten recesses may reveal. Nothing is lost that is brought in contact with Diamond Dyes


## An Easy Way to Save $\$ 100.00$ a Year.

Once every so often I have what I call my Diamond Dye days. I usually wait until the children need some bright, new clothes, and then I take all the clothes that I have been keeping and make over for myself, then I decide on what colors I want to have. " I dye one color at a time, and by noon I am all through, and the clothes are on the line and dry by night
' Lots of things I dye whole without ripping up or taking out the linings, unless I am going to make them over anyway. I have found it easy to dye straw and felt hats, and trim them it think that
and feathers that I have dyed some fresh, bright color. In Diamond Dyes easily save me \$roo.oo a year. It's so easy to use them, and I actually look forward to my Diamond Dye days. The Diamond Dye Annual has given me so many hints that I am glad to
write for it." Mrs. W. B. Martin, St. Paul, Minn.

## Important Facts About Goods to be Dyed:

 Diamond Dyes are the Standard of the World, and always give perfect results. You must be sure that you get ine real to dye.Diamond Dyes adapted to the article you intend

Beware of imitations of Diamond Dyes. Imitators who make only one kind of
. dye, claim that their imitations will color Wool, Silk or Cotton ("all fabrics") equally
well. This claim is false, because no dye that will give the finest results on Wool, well. This claim is false, because no dye that will give the finest results on Wool,
Sill, or other animal fibres, can be used successfully for dyeing Cotton, Linen, or Silk, or other animal fibres, can be used successiully for dyeing Cotion, Linen, or
other vegetable fibres. For this reason we make two kinds of Diamond Dyes, namely: Diamond Dyes for Wool, and Diamond Dyes for Cotton. Diamond Dyes for Wool cannot be used for coloring Cotton, Linen, or other
Mixed Goods, but are especially adapted for Wool, Silk, or other animal fibres, which take up the dye quickly. Diamond Dyes for Cotton are especially adapted for Cotton, Linen, or other
whe
mpe the slowly. vegetable fibres, which take up the dye slowly.
"Mixed Goods," alsoknown as "Union Goods," are made chiefly of either
Ger miar Cotton, Linen, or other vegetable fibres. For this reason our Diamond Dyes for
Cotton are the best dyes made for these goods.

Diamond Dye Annual-Free. $\begin{aligned} & \text { Send us your name and address (be sure to } \\ & \text { mention your dealer name; and tell wo whether }\end{aligned}$


[^2]LLS \& RICHARDSON CO., LIMITED
200 mountain Street, montreal. p. Q.

## cause better.

ever so little
BESS H.
Our Literary Department. Our Literary $\quad$ Study IV.
For more is not reserved For more is not reserved
To man, with soul just nerved To man, with soul just nerved
To act to-morrow what he learns to-day:
Here, work enough to watch Here, work enough to watch
The Master work, and catch The Master work, and catch
Hints of the proper craft, tricks of the Hincs
tool's
true play.
$\qquad$ Should strive, through acts uncouth,
Toward making, than repose on aught found made So, better, age, exempt
From strife, should know, than tempt Further. Thou waitedst age: Walt deat $\quad \mathrm{XX}$.
Fnough now, if the right
And Good and Infinite
 Be named here, as thou
thine own,
with knowledge absolute With knowledge absolut
Subject to no dispute
From fools that crowd From fools that cr
thee feel alone.

$$
\begin{array}{|c|}
\text { XXI. } \\
\text { Be there, for once and all }
\end{array}
$$

$$
\begin{aligned}
& \text { Be there, for once and all, } \\
& \text { Severed great minds from small, } \\
& \text { Sonounced to each his station }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Be ther, great minds rrom small, } \\
& \text { Snnounced to each his station in the } \\
& \text { Past ! }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Past } \\
& \text { Was I, the world arraigned, } \\
& \text { Were they, my soul disdained, }
\end{aligned}
$$

Were they, my soul disdained,
Right? Let age speak the truth and
Rive us peace at last !
XXII.
Now who shall arbitrate?
Ten men love what I hat
Shun what I follow, slight what I re
ceive :
Ten, who in enrs and eyes
Match me: We all surmise,
They, this thing. and I, that: whon
They, this thing, and I, that: whom
shall my soul believe?
Not on the vulgar mass
Called "work" must sentenco pass,
Things done, that look the eye and had
the price;
O'er which, rrom level stand,
The low world laid its hand
The low world laid its hand,
Found straightway to its mind, could
value in a trice:
sut all, the world's coarse thumb
And finger failed to plumb,
So passed in making up the main ac
All instincts immature,
All purposes unsure,
That weighed not as his work, yet swelled
XXV.
Thoughts hardly to be packed
Into a narrow act.
Fancies that broke through language and
Fancies that broke through language and
Ascaped
All I could never be,
All, men ignored in the
This, I was worth to (God, whose wheel
All, men ignored in me
This, I was worth to
the pitcher shaped.
(1) Naine three words in stanzas XIX.,
XX., used in a rather peculiar way, and
give the signification
give the signification as used here.
(2) of what use is the clause "as thou
callst thy hand thine own." St. XX.?
What word forms the completion of the
What word forms the completion of the
verb "Me," St. XXI. ? What word might
But love I gave thee with Myself to
oring out the meaning more fully? Ex-
plain line 3 , St. XXV, and also the
(3) Follow the poet's corurse of thourhe
which causes him to ask the question.
Now, "tho stall .uthertut ",



may reach this office on or before Apri 24th. One
this series.

Essay, Study II
The following essay, notwithstanding
some rather peculiar constructions, possome rather peculiar constructions, pos-
sesses so much originality that it will be read with much interest by our students
of Rabbi Ben Ezra. It was submitted of Ratur Men
on Study No. II.

- Oh, yet we trust that somehow good

Oh, yet we trust haal of ill,
Will be the final gare,
To pangs of nature, sins of will, To pangs of nature, sins of will,
Defects of doubt and taints of bloo
That nothing walks with aimloss feat That nothing walks with aimloss feet
That not one life shall be destroyed That not one life shall be destroye
Or cast as rubbish to the void,
When God hath made the When God hath made the pile com-
plete." " I'll find a way or make it." should
be a motto for us as well as the Roman be a motto for us as well as the Roman.
Royal roads, like those of the peasant. are filled with stumbling blocks. As Mercy cleared the path of thorns and briars from before the Red-cross Knight,
so Jesus, if we but trust, will lead us so Jesus, if we but trust, will lead us
gently over the "बlinty furlongs." In
stead of taking up the cros gently over taking up the cross assigned to
stead of the math meeping, let us rather go forth us with weeping, let us rather go forth
rejoicing that we can labor in the harrejoicing that we can labor in the har-
vest, and also let us see well to it that vest, and also let us see well to it that
we return the talents, saying, "Lord, wo return the talents, saying, "Lord,
thou deliveredst unto me five talents, bo
hold I have gained beside them five tal-. hold I have gained beside thom five tal-
ents more.".
After each fall, like the ancient son of ents more.
Atter each fall, like the ancient son of
Neptune, we should rise stronger to face Neptune, we should rise stronger to face
the contest. To be able to sympathize with our brothers wo must have been
with them in the struggle. Consolation with them in the struggle. Consolation
from a Sybarite would be very from a Sybarite would be very hollow.
indeed. The gain to ourselves in striv-
ing deserves the effort, so let us rather ing doserves ve eflort, so let us rather
underestimate the battle in counting the The truth of the adage, "He who aims
at a star shoots higher far than he who
nims at ater at a star shoots higher far than he who
nims at a tree," has been proved to the
uttermost
While it seems a contradio uttermost. While it seems a contradic-
tiun of facts. yet suctess is made up of
repeated failures. No man ever reaches
his ideal, but when he looks back on his repeated failures. No man ever reaches
his ideal, but when he looks back on his
ife he rejoices to know that he was the life he rejoices to know that he was the
standard-bearer of an army whose banner The human being who can see no need
of betterment in himself has become one
of that vast throng known as the submerged tenth. Man is but an atom
compared with Infinity. If such an ilde thought arose in his mind as to the force
his body could expend, in making a prohis body could expend, in making a pro-
jectile of his soul, at dissolution he would find his soul, if able to search, perilously near this planet. Without God and faith
in God, man's works ament in God, man's works amount to very lit-
tle, if anything, in gaining him a "manHowever. the wonderiul girts of sight, hearing and memory, should be turned to
account. Some have heredity to lean on, account. Some have heredity to lean on,
strong. well-knit bodies, supplemented by
retentive brains. With all these blessings, should we not spare one moment to thank our Creator for our lives?
.. This awful God is ours," Who ap-
peared in majestic power on Sinai; Who peared in majestic power on Sinai; Who
shone with dazzling brilliancy in the
burning bush burning bush: Yet underneath all this
glory the "All-great is the All-loving O heart I made a Heart beats here.
Face Mv Hands fashione myscelf. Hands fashioned, see it in Thou hast no love nor may'st conceive
of Mine, gave thee with Myself to And thou must love me who have died It was $11 \mathrm{p} . \overline{\mathrm{m} ., \text { and the conversation }}$
begun to lag. Finally the spirit moved hegun to lag. Finally the spirit moved
young Staylate, and he said:
"Those Kentucky night riders are a bad ".Oh, I they don't know," rejoined Miss "Oh, I do't know," rejoined Miss
Weariun. as she tried in vain to strangle
a yawn. "They might be worse."
"Why, how could they ?" he asked. "They might be night sitters," she re-

Wied.
Thereupon the young man in the parlor
scene suddenly remembered that his
mother might be uneasy about him and

The Golden Dog
(Le Chien D'Or.)
A Canadfan Historical Romance.
Copyright, 1897, by L. C. Page \& Co. (Inc.) [Serial Rtedeta Securred by the Wm. Weld Co., Ltd.

Chapter xilt.-Continued There was immense talk, with plenty of laughter and no thought of mabitans of en haut and the habitans of en bas commingled, as they rarely did, in a friendly way. Nor was ven to the Acadians, whose rude patois was a source of merry jest to the better-speaking Canadians. The Acadians had focked in great of their Frovince by the Englishsturdy, robust, quarrelsome fellows, who went about challenging people mon maitre, monsieur? -but all were civil to-day, and tuques were
pulled on and bows exchanged in a style of easy politeness that would
have shamed the streets of Paris. The crowd kept increasing in the
Rue Buade. The two sturdy beggars who vigorously kept their rier, or gateway, of the Rasse Ville, reaped an unusual harvest of the smallest coin-Max Grimau, an old,
disalhed soldier. in ragged uniform, which he had worn at the defence of Prague under Marshal de Belleisle; and blind Bartemy, a mendicant born -the former, loud-tongued and only holding out a shaking hand for charity. No Finance Minister or Royal Intendant studied more earnestly the Max and Blind Thartemy how to toll the pass
perhaps.


Little Champlain Street, Quebec.
the sturdy was a red-letter day for fast that an ovation of some popular kind was to be given to the
Bourgeois Philibert. The habitans came trooping up the rough moun-
tain road that leads from the 13asse Ville to the Upper Town; and up the
long stairs lined with the stalls of Basque pedlars-cheating, loquacious varlets-which formed a by-way from
the lower rergions of Rue de Champlain-a break-neck thoroughfare litule liked by the old and asthinatical. but nothing to the sturdy
"climbers," as the habitans called climbers," as the habitans called
the lads of Quebec, or the light-
footed lasses who, oisplayed their trim miles as they flew up the

Max Grimau and Blind Bartemy had ceased counting their coins. The numbers, until the street, from the Cathedral, was filled with a noisy, good-humored crowd, without an ob Dog, and a desire to catch a glimpse of the Bourgeois Philibert
The crowd had become very dense, when a troop of gentlemen rode at
full speed into the Rue Buade, and after trying recklessly to force their way through, came to a sudden halt in the midst of the surging mass. The Intendant, Cadet and Varin
had ridden from lowed by a train of still flushed guests, who, after a hasty purifica tion, had returned with their host to the city-a noisy troop, loquacious,
laughing, shouting, as is the wont of men reckless at all times, and still more defiant when under the influence " What is the meaning of this rabsle, Cadet?" asked Bigot; "they
seem to be no friends of yours. That fellow is wishing you in a hot place," added ligigot, laughing, as he
pointed out a habitan who was pointed out a habilan , who wa
shouting "A bas Cadet!" "Nor friends of yours, either," plie Cadet. "They have not recog nized you yet, 13igot. When they
do, they will wish you in the hottest place of all!',
The Intendant was not known per sonally to the habitans, as were Cadet, Varin, and the rest. $\begin{aligned} & \text { Loud } \\ & \text { shouts and execrations were freely }\end{aligned}$ vented against these as soon as they were recognized.
" Has this ra
"Has this rabble waylaid us to insult us ?" asked Bigot. But it can
hardly be that they knew of our re turn to the city to-day." The In tendant began to jerk his horse
round impatiently, but without avail. round impatiently, but without avail the rabble which the Governor has summoned to the King's corvee.
They are paying thicir respect to the They are paying their respect to the
Golden Dog, which is the idol the mob worships just now. They did not expect us to interrupt their de-
votions, I fancy.."
". The vile mouns ' is not worth the shearing! '" exclaim-
ed Bigot anyrily, at the mention of ed Bigot anyrily, at the mention of
the Golden Dog, which, as he glanced upwards, seemed to glare defiantly upon him
-. Clear Bigot loudly, while darting his hors into the crowd. . Plunge that Flanders cart-horse of yours into
them, Cadet, and do not spare their toes !", ", Cadet's rough disposition chimed
well with the intendant's wish well with the intendant's wish
"Come on, Varin, and the rest of you," cried he, "give spur, and
fight your way through the rabble." The whole troop plunged madly a
the crowd striking right and left with their heavy hunting-whips. A violent scufle ensued; many habitan. were ridden down, and some of the
horsemen dismounted. The Intendant's Gascon blood got furious; he struck heavily right and left, and many a bleeding tuque marked his
track in the crowd. track in the crowd.
The habitans recognized him at
last, and a tremendous yell burst last, and a tremendous yell burst
out. " Long live the Goiden log ! Nown with the Friponne!"' while the
more bold ventured on the cry "Down with the Intendant and the thieves of the Grand Company !'" Fortunately for the troop of horse-
men the habitans were utterly unarmed; but stones began to be thrown, and efforts were made by them, not always unsuccessfully, to Jean La Marche's darling child, his ia vorite violin, was crushed at the first charge. Jean rushed at the In tendant's bridle, and received a blow The Intendant and all the troop now drew their swords. A bloody catastrophe seemed impending, when
the Bourgeois Fhilibert, seeing the the Bourgeois Philibert, seeing the
state of a mairs, despatched a mes-
cencer with tidings to the Castle of St. Louis, and rushed himself into


## More bread and Better bread

## - And the Reason for it

A STRONG FLOUR can only Of course this special process is ledged the strongest in the world and that is the kind used for Purity Flour.

But that's not all. Every grain of this wheat contains both high grade and low-grade properties. In separating the high-grade parts from the low-grace the western wheat through a process soexacting theat not single low srade part has the remotest chance of getting n with the high-grade. n with the high-grad
more expensive to operate but it
means a lot to Purity flour usershat's why we use it.
It means that Purity Flour nade entirely of the highest-grade four parts of the strongest whea in the world.
fteans a high-class, strong four an therefore yields "more bread and better bread.'
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chanics, capable of inventing and making improvements. No changes, no improvements and no intelligence are
close companions. The National lead lo up-to-date and beautiful delign ; for simplicity, durability and close skim-
ming ; easy to operate and clean. Just ming ; easy to operate and clean. Just
what is needed. A free trial to your what is needed. A Aree
home in competition with any other
named separator. If you want the best, get the NATIONAL. Send for

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|  | Spray with the EMPIRE KING $\qquad$ $\qquad$ on urges it is the best pump Wi, Monarch, Garfield Knapsack. FIELD FORCE PUMP CO 666 Eleventh $S$ |
| :---: | :---: |

PERFECT STEEI TANKS

## imploring, threatening and commel

 He wan son reconiized and cheored
by the mond by the prople, oput even his inuluence
might have failed to calm the frery
ming


 ing bay onets were sten streaming




 yv belre the tropts the authorities indeed, had no purpose whatever.
way
was was made
wy the soldiers the Intenand mat and his sriends were
extrincented rom their danker. They rodo at once out or the mon
amid a volley of of exectationst which
and were replied to by angry oaths and
threats of the cavaliers as they galthreats of the cavaliers as they gal
loped across the Flace d'Armes and loped across the
rode pell-mell into the gateway of
the chateau of St. Louis. The crowd, relieved of their presence, grew cof them got apprehen-
more timid of
sive of the consequences of this outrage upon the Royal Intendant. They dispersed quietly, singly, or
groups, each one hoping that he groups, each one
might not be called upon to account
for the day's proceedings. The Intendant and his cortege of
friends rode furiously into the courtfriends rode furiousty st. Louis, disyevelled, bespattered, and some of
them hatless. They dismounted, and foaming with rage, rushed
through the lobbies, and, with heavy trampling of feet, clattering of scabbards, and a bedlam of angry ton-
gues, burst into the Council ChamThe Intendant's eyes shot fire. His Gascon blood was at fever heat, hushing his swarthy cheek like the at once to the Council-table, and seeing the Governor, saluted him,
but spoke in tones forcibly kept under by a volent effort. the Council will excuse our delay,"
shouted ligot." when I inform you that I, the Royal Intendant of New
France, have heen insulted, pelted, and my ver: life threatened by a se-
ditious mob congregated in the streets of Quebec. ${ }^{1}$. ${ }^{1}$ grieve much, and sympathize
with vour Fxcellency's indignation," with your $\begin{aligned} & \text { excellency s indignation, } \\ & \text { replied the Governor, warmly } \\ & \text { rejoice you have escaped unhurt. }\end{aligned}$, rejoipatched the troops to your ace
despar
sistance, but have not yet learned
the cause of the riot.
$\qquad$
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$\qquad$
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$\qquad$

New Frate profoundly indifferent to men's opin-
$\qquad$
o protect us from tho rabule
harte Philibert with sowinn
charge Philibert with sowing
tion that caused the riot, not
tiot ing himalet
rot ing himself."
" But I I accuse him of both, of all the mob has done !". thunder-
ed Jarin, enraged to hear the Inendant speak with moderation and
justice. . The house of the Golden
Nog is a den of traitors
$\qquad$
$\qquad$
$\qquad$Governor, sternly !" excluimed the
will not
hear the sieur Philibert spoken of in
these injurious
hese indurious terms. The Intend-
ant does not charge him with this
disturbance, neither shall you..? Par Dieu ! you shall not, Var-
in
burst in 1,
Corne St, Lucroused to unusual wrath by the op-
probium heaped upon his friend themourgeois: and you shat answer to"La Corne! La Corne !" The
Governor saw a challenge impending,and interposed with vehemence.
. This is a Council of War, and nota place for recriminations. Sit down,
dear old friend, and aid me to geton with the business of the King and
consider.",
The appeal went to the heart of
La Corne. He sat down. "You
have spoken $\begin{gathered}\text { anerously. }\end{gathered}$ Chevalier
Rigot. respecting the Bourgeois
Rigot, respecting the Bourgeois
Philibert," continucd the Governor.
".
1 am pleased that you have done
so My Aide-de-Camp, Colonel
Philibert whoter
Philibert, who is just entering the
council, will be glad to hear that
your Excellency does justice to his
ather in this matter ", "The blessing of Bennet's
"The
"'The blessing of st. Bennet's
boots upon such justice," muttered
Cadet to himself. justice, " mas a fool
not to run my sword through Phili-
bert when I had the chance." Colonel
The Governor repeated to Col
The Governor repeated to Colonel
Philibert what had been said by
Bigot.
Colonel Philibert bowed to the In
Colonel Philibert bowed to the In-
tendant
tendant. "I am under obligation
to the Chevalier Bigot," said he,
to the Chevalier Bigot," said he,
"but ast anishes me much that
anyone should dare implicate my
anyone should dare implicate my my
father in such a disturbance. Cer-
$\begin{array}{ll}\text { father in such a disturbance. } & \text { Cer- } \\ \text { fainly the Intendant does him but }\end{array}$
justice."
This remark was not pleasing to
Bigot. who hated Colonel Philibert
equally with his father. "I merely
said he had not participated in the
said he had not participated in the
riot, Colonel Philibert, which was
true. I did not excuse your father
true. I did not excuse your father
for being at the head of the party
for being at the head of the party
among whom these outrages arise.
among whom these outrages arise
1 simply spoke truth, Colonel Phili
b,ert. I do not eke out by the inc
my opinion of any man. I care not
for the Mourgeois Philibert more
Thillowing was an ungracious speech.
This
This was an ungracious speech.
13igot meant it to be such. He re-
pented almost of the witness he had
pented almost of the witness he had
frofoundly indifferent to men's opin-
Colonel Philibert resented the $\mathrm{In}^{\text {In- }}$
tendant's sneer at his iather. He
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GOSSIP
 on to investigate the condition under

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Regina, Sask, the stocknen an ther ith


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 Iorn. Regina, Jas
N. stowe, inavison.

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## CHASE AWAY THE TIRED FEELING

Dodd's Kidney Pills will do it Quickly and Naturally.

It is Caused by Slugsish Clrculation Brousht on by Deranged Kidneys of the Blood.



If you are going to build, or are
thinking of going into the contract-
ing business, it will pay you to get ing business, it will pay you to get
our catalogue and three-days freetrial offer on our new
Singer Down-face Block Machine
Made in three sizes. Machine and parts for making 4,8 and 16 inch wall hlocks, both smooth $\$ \mathbf{3 4 . 5 0}$ VINING BROS. MFG. CO. Nlasara Falls, Ont.

## QUESTIONS AND ANS Miscellaneous. <br> WEAK STIFLE

Have a colt coming two years. Se
eral times, on going in stable, have foun his stifle partly out. He gives the leg a jerk
and it goes in place. There is no cracking sound. Do you think he grew too fast
(this is my opinion), and is it reall (this is my opinion), and is it really
stifle displacement I never noticed it
till the beginning of December. till the beginning of December. Ans, -The colt is evidently weak in hi
stifle, though the displacement may be only partial. If no lameness is discern-
able, he may improve with age, withou
treatment Creatment. The standard treatment for
dislocation is keeping the animal quiet
in a box stall, and blistering the stifle at a least twice at intervals. the stifle
Take 1 t
drams each, biniodide of mercury and can drams each, biniodide of mercury and can-
tharides, and mix with 2 ors. vaseline.
Clip the hair
off front and inside of so he cannot bite the parts. In 24
hours rub well again with the blister,
and in 24 hours longer wash off and apply sweet oil. Let him loose now in a well-
bedded box stall, and apply sweet ail bedded box stall, and apply $\begin{gathered}\text { sweet oil } \\ \text { every day. } \\ \text { 童 } \\ \text { least unter once a } \\ \text { until a cure is effected. }\end{gathered}$
month at at

PIGS DYING.
$\qquad$
$\qquad$
$\qquad$ to dying. Their stools are as yellow as
sulphur; they last about two days and
then die. The sows are ted ats, and a little chess chop. The
The ave good, dry, warm place. The sows
k well and feed well. Will you kindly Ve me the cause and a cure for the
T. V. S. condition of the pigs in question, unless
it is the ration fed the sow. Would advise leaving out the bariey and chess,
and substituting wheat middlings in place
of same. A mixture of finely-ground pats and wheat middlings, about equal
parts, makes a frst-class ration for a
sow, and it is drfoult sow, and it is difficult to improve upon
such a ration. of course, sometimes difficulties will arise when there is some
thing wrong with the ventilation or the
atmosphere generally in the piggery, hut atmosphere, generatly in the piggery, but.
apparenty, , rom the statement submitted,
these conditions are all right. It is impossible to say with absolute certainty
what is the trouble, but it is quite pos-
sible that it is the feed, and I would sible that it is the feed,
advise the change suggested. IMPOUNDING ANIMALS-FENC A and B are neighbors. A, last year B a lot of bother by getting into his
crops. B asked $A$ it he could not kee it off the road, as it was damaging his
crops, and A's answer was that he was: he had no other feed for it. Last year
I had a fence along the road, but As
horse would get over any ordinary fence
$\qquad$
$\qquad$ 1. Provided the horse bothers this year
what steps should B take to recover daum ages?
2. Does a man have to fence his farm in to keep other people's stock out, o
only to keep his own in?
3 It so is there any such thing as lawful road fence? fence along the road?
5. What would you consider a lawful
line fence, or would that be left to the line fence,
decision of
Ans.-1. Apparently, your townshi,
counciil has made provision for such case by by-law passed pursuant to Sec. 546
of the Consolidated Municipal Act. 1903 , way of impounding, and you should accordingly have the township clerk show
you such by-law for the desired information. Generally speaking, it is to keep his
2. Gow stock in.
own . These questions depend for
3. 4 and 3, 4 and 5. These questions depend fo
3nswer upon local municipal by-laws.


A Paying Investment. The skim-milk call is as good as the
nevv-milk call, provided Herbageum is in his skim mik. Mik. Herbagoum will halp
horses digest their feod and thu sit them for the strain of spring work. Young chickens and turkeys escape disease and death by the aid of Herbageum. It pays weck. Herbageum is not expensive.
stock.
There There are 258 feeds in a 50 -cent pack-
age. That is five feeds for one cont. One feed is a feed for three young calves.
50 -cent package is sufficient for one horse for four months.
gele uke sixty:65 GILSON FONCINE


WYHY NOT mprove the earning power of your herd by the PURE-BRED GUERNSEY SIRE?
 C. H. McNISH, Lyn, Ont.
 H. P. VAN WAGNER, STOUNY CREEK, danhiad:

QUESTIONS AND ANSWERS Miscellaneous.
CORN, ALFALFA, CLOVER AND Sitor In your issue of March 25th, Mr. Deadgrowing alfalfa we can dispense with frow and roots. Other writers tell us to
grow more corn and build siloes; others ndvocate growing more roots. I intend
to build a silo, and I like roots, and I am going to sow ten acres of alfalfa this
spring, but before building a silo I would sping,
like the opinions of some experienced
farmers
through your valuable paper farmers, through your valuable paper,
as to whether it pays to grow corn and building silo and machinery for cutting Corn, and which of the two policies is
he hetter to follow. (a) Silage, or alfalfa or roots ; (b) silage, and alfalfa
W. T. H. Ans.-We say the second; silage and
alfalfa and roots; also clover-and plenty of them, especially of silage, clover and alfalfa, with a moderate acreage of roota
each year to provide an appetizing and tonic relish for the stock. What say our
readers ?
$\qquad$ An increasing interest in cement con-
struction is accompanied by improved machinery for doing the work. The
Singer Down-face Block Machine, manufactured by Vining Bros., and advertised in this issue, a most complete outat, is
offered at a very reasonable price. Conrercors and those intending to build


Bruce's Giant White Feeding Beet.


The Magnet Cream Separator
IS EASY TO CLEAN,
WHICH MEANS IT IS ALWAYS CLEAIN


Heal Oflce and Favio, CAN
HAMILTON, ONTARIO,


QUESTIONS AND ANSWERS. CRACKED HEELS AND MAI
 roken out in her legs. The tront legs
have broken out just behind the kenes.
and have broken out just
and the hind legs at heels and fetlocks.
J. J. B. Ans.-This is a skin disease. The trour
bie at the knees
is called mallenders
 star al The mallenders will be hard
scrathes. To
to are. on account of the action of the ioint. (ive her a purgative of of drams
alloes and 2 drams finger. Follow
 nic wice daily for a week. Dress the
cracked paras 3 times dalily with a lotion
composed of zinc
wate
ceat
ceat
coth

## ouestions and answers

 Miscellaneoustime to sow salt on barley When is the best time to sow salt on
barley." it the time of sowing the brain, or wist when the seed is sprouted,
or when there is a good raird?
n. H. Ans- Jutst hettere the grain BARLEY ON BEET LAND-SALT I have four nerres of beet lani

 drill?
Ans. -If your beet land was in proper
condition tor the procuction of a satis . factory crop last year. it should not be
necessary to add any fertilizer this sea.
sun to met a fine crop of barley.
Salt
 ficial and sometimes injurious. It doess
not supply y plant food to any appreciable
extent.
Its benefit, it any, comes from

 crare in of cercal cropp is some song tened and
made stifter by the use of salt. The ad
mot made stifrer by the use of satt. The ad
visability of its use is very questionable
depending somewhat on tie nature of th
$\qquad$
$\qquad$
$\qquad$ POULTRY HOUSING-HORN DIS 1. What size would you build a pout
(ry house where fify hens are thing kept?
This house would be for winter and sum This house would be for winter and sum
mer use.
2. How warm should a poultry house e. in winter time to give good results?
finould it to so it would not freeze ? ihould it be so it would not freeze?
3. Would youl advise ground floor
and routry house if the ground was dry?
4. Is there uny as horn distemper. sumscribubliz Ans,-1. Fifty hens are rather

$\qquad$ able house would repury 10 be not lee
ihan $12 \times 16$ feut in dinumsions. $14 \times 1$ Non
owno sonmum)

## Alfalfa SEED

Are you going to seed down a field
with this valuable forage plant YOUR SUCCESS
greatly depends on the seed you
select. Our "Gold" Brand, we honestly think, is the best of last sea-
son's crop. It is a large, bright, PURE AND CLEAN seed, grown in Montana, the most
northern State in U. S. A. It is
therefore bester therefore best tuited for our climate.
We just received word from the Dominion Government Seed Commiffalfa is the best seed they have record of, both for purity and
ity. Sow 20 lbs. per acre. BUY NOW Present price, $\begin{aligned} & \$ 12.50 \text { per bus., } \\ & \text { forb. Toronto. Bags, } \\ & \text { 25c. each. }\end{aligned}$
and RED CLOVER, ALSIKE and TIMOTHY: "Sun" Brand Red Clover, \$ 7.75 bus. "Diamond" Brand Timothy, $\$ 3.25$ PURE. ClEAN, THE BEST. Ask for samples, and judge for
yourselves. We have selected
$\qquad$ cannot get cleaner
seed in Canada.

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 If you want a change, select oneof the following varieties. They are all good, clean oats, test
ing 36 pounds to the bushel :
 SEED PEAS.
 SPRING WHEAT. Red Fyfe, White Fyfc. White Russian,
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sider to be the very best varieties of very prominent vegetable family. Selet From The Following Lic.
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 Late Beet
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## Cress Cerrot Cerry Early Corn <br> Cumber Oz. pklı. for

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pkts. any of the following 20 Alter. Alssum, Candytut
Pipp, Mignonette.
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 horses, incluading stallions and mares for
breeding purposes, is at aested by all those
in the horse business.
thiporters
theport
 many years, dozens of stallions anving
been sold ands scattered from one end of
the country to the other, where all wilt the country to the other, where all will
do their share in improving the drati
horses of Canada. horses of Canada $\begin{aligned} & \text { Tmproving the drath } \\ & \text { porter of of Clydesdile } \\ & \text { Thown } \\ & \text { horsel }\end{aligned}$ im-

$$
\begin{aligned}
& \text { which every farmer wants. } \\
& \text { All wires are well galvanized. That means no } \\
& \text { most and long wear-and the crimo in the wires }
\end{aligned}
$$ porter of Clydesale horses, Dr. T. .t.

Hassard, of Markham, Ont., reports th
sale of over twenty sult

$$
\begin{aligned}
& \text { rust and long wear - and the crimp in the wires } \\
& \text { allows for contraction and expansion. }
\end{aligned}
$$ sale of over twenty stallions in the last

Tew montus, and he has still leftit in his stables at Markham, ten stallions of as
royal breeding and as high a stand of individuality and quality as can be Ound in the coun
ure (impo
hree - year-old weil three-year-old weighing 1.850 pounds, by
the champion, Hiawatha. (19m double champion, Yrince of Albion, this
is one of the best colts ever imported to
canada, and a winner be and Canada. Black Regent (imp.)
and
187981, a black 1,800 , a bounds, sired threeyear-old weighing the great breed-Cawdor-cup champion, Royal Gartley; this is a grand quality colt and a won-
derful mover. Coming Times (imp.)
mores. 187951, a brown three- year-old weighing
1,800 pounds, sired by George the First. dam by the noted sire and winner, Bore,
land Pride; this is a lig., smooth colt. Ioreburn (imp.) is a big, smooth colt
I 87901 , a bay four-year
Id weighing 1,850 pounds weighing 1,850 pounds, by the in
vincible Hiawatha, dam by the four
limes Cawdor-cup winner. Prin Cimes Cawdor-cuap winner, Prince of Car
ruchan; this is a show horse all over
 Way four-year-old weighing 1,950 pounds,
hy the moted breeding horse, Bare
ay, dam by Midelt,
 Sty. Silver Cloud (imp.) (18797), a ba
four-year-old weighing 1,800 pounds, Prince of Merryifild, dam by Scottis
Crown; this is horse. Carrellus a very stylish quality
six-year-old weighing (8i99), a brow Hx-year-old weighing 1,809 pounds, by
Hiawatha, dam lyy Prince of Carrucha
as his royal breeding wis. is a grand breeding would indicate, this
horse. Dunure Mat
hat.
 dam by Ethiopia; this is a coming sho
horse. a brown weighing 2,050 pounds, eigh twing sired by Prince Robert, dam by
Williaul the Conqueror, and his third domen is by the Connley; he is a big flash horse o silperb, breeding, and a sire of high order
Mr. Hassard has also on hand four Hack stallions. All and tor sale at close-cut

QUESTIONS AND ANSWERS Miscellaneous
MIXED GRAINS AND FLAX.
$\qquad$
$\qquad$
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$\qquad$
$\qquad$ Executors' Sale! HEREFORDS AND SHORTHORNS
At Forest, Ontario, Thursday, April 15, 1909.
The entire herds, part of the estate of the late J. A. Govenlock, Forest, O T. E. ROBSON AND W. E. MOLOY, AUCTIONEERS.

Then there's the "Tie That Binds"-the greatest little invention of recent years. This tie hooks on the running wire and locis smooth on both sides. Being a long oval loop, it permits of a long bend in the line wire
This tie does not injure the running and upright wires, yet holds the pont cross.
Get the true facts about wire fences. Write for Get the trae facts about
our book and sample lock.
wOODSTOCK, ONT.


Leading merchants sell them. In sealed packages.



Guaranteed Wheels We guarantee our Low, Wide-
ire Steel Wheels against any defect
 DOMINOM
WROUMHI IRON
WHEEL CO Luerted,
Orille, Ontarle.

SEED BARLEY (Mandscheuri)
 J. \& D. J. CAMPBELL, FAIRVIEW FARM. WOODVILE, owt SEED OATS $\begin{gathered}\text { BLACK } \\ \text { Producd soanerre. } \\ \text { somblis }\end{gathered}$


THE FARMER'S ADVOCATE

## - Three Montris gone! 1500 MARCH 1900 Three months of this year have gone and you are rum

 can you hope to seep up for the recive the hop
following sory from B.C. and recel
COULD SCARCELY GJT ARO it has made a new "Mrs. Worden has taken four bottles of PSYCHINE and h has mily get around
Mefore she started to take PSYCHINE she could scarcel Toman of her. Before now she can do it without feeling the teast fatidering." Atrongly recommend PSYCHINE To any one. Wrots Point Barracks, Victoria, B.C.



GOSSIP.
 PS Wonvare strem INC
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Our
Hand Spramotor

##  $\underset{\substack{\text { tical atau. } \\ \text { matic } \\ \text { mat } \\ \text { in }}}{ }$

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BUILD CONCRETE SILOES FROM Solid Concrete or Concrete Blocks


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Price without po
illustration, $\$ 275$-oo
With With this Whe thine you can defy competition on small contract work Why does it save you money? Simply because the materials only have to be handled once. No extra shovelling, no wheellng, mo rest Will give any desired proportlon, will mix any kind of materia! with any consistency of moisture. Measurements absolutely perfect. This machine is selling as fast as we can make it. et us have yo. We also manufacture concrete mixers for hand power, also large Face-Down Concrete-block Machines, Cement-brick Machines, Sill, Step and Window-cap Mould, Concrete Fence-post Moulds, Concrete Sewerpipe and Tile Moulds, Concrete Block and Brick Cars. Wheelbarrows and Lawn-vase Moulds. Hitching-post Moulds, Mortar Screens, Mortar Hoes,
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we are the largeat manufacturera of Concrete Machimery tin Canade.


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Page Fences have "high-car- Other fences have only "hard bon" horizontal 9-gauge wire. High-carbon wire is harder, tougher, and far strongerfrom a third to a half as
strong again-stands 2,400 strong again-stands 2,400 lbs. strain-test.
Page Fences, because of this extra strength, have ample spring in reserve to sagless with fewer posts by a third.

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Other fences thus lack spring Others, need three posts to Pa Fence's two and then sag and give.

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These are the reasons why Page Fences cost less and woar beot, because they need a third less posts and a third less labor to erect, and yet make a tighter, sightier, sag-proof and more en during fencing. Go by the book-it tells all about every style of Page Fences and shows how to prove fence-value before you buy. Ask for it (it's free) from Page Wire Fence Co., Ltd. Walkerville, Toronto, Montreal, St. John, Vancouver, Victoria
"PAGE FENCES WEAR BEST"


DON BUYGASOLNE ENGINES.‥gnamakman


## SEA GREEN \& PURPLE SLATE SEA GREEN AND PURPLE SLATE   ROOFS NEVER WEAR OUT

Double Grip Lock Don't buy wire fence until
fou've seen our new woven fence you've seen our new woven fence
which is so vastly superior that we have appropriately named it the Leader. It is a hard steel wire fence, heavily gava
laterals and stays No. 9.
But the "Leader" Lock
the really great improvement has the double grip-makes twice as strong a binding-twice as $\frac{\text { as strong a minding twice as }}{\text { strong and durable a fence. of }}$
Frame \& Eay Fence Co., Ltd., Stratford, Canada

## Success Manure Spreader

 Häs Light Draft Roller Bearings

THE PARIS PLOW CO.; LIMITED, PARIS, ONT
 much easier to sell. Will give such genuine satisfaction that we are certain of repeat orders from all purchasers
Will You Sell " Leader Fence For Us in your locality? Also act as our representative for our comple nd gates? Write to-day for ou money-making proposition
gossip

n Berkshires for sale there are a
at che
choice youngsters of both sexes, fro
Messrs. John McFarlane and W. H. $\begin{aligned} & \text { of choice youngsters of both sexes, fron } \\ & \text { three to tive months of age, sired thy }\end{aligned}$ ord, Mutton, Ont, have sold to Wm. that splendid hog, Oakaale left two ram
Carrol, Cowal, Ont., a very handsome In Leicesters there are let ther Carrol 16 -months-old bull, Royal Prince. lambs, and a few shearling ewes could the
dark red
They have twelve nice ones still on hand spared, also egys from the Buff Orping. at various ages, from 10 to 18 months,
from imported sires, and some irom imported sires, and some out of im
 Wvelve ewes of extra-good quality, and vocate" resulted in the sale of all the
fight shearling rams of yood type. in stock offered, now advertises a valuable
lack Hackeys they have for sale a three日 $\begin{aligned} & \text { recipe for calf scours, which he considers } \\ & \text { Hear-old broken-in; also a yearling filly. } \\ & \text { of great value to dairymen, he having } \\ & \text { had fifteen years' experience with it with }\end{aligned}$



| asked Sammy as he stood up, cont your |  |  |
| :---: | :---: | :---: |
|  |  |  |













 making a show bull. We would be pieased
to have anyone thinking or buying call
oand see thens buls, or rite
no ary
not askink bik prices.considering quality











$\qquad$


$\qquad$
$\qquad$ 8 4

# A Free Book about Paint \& Prosperity 

Every farmer should know the relation between these two things.
Well-painted farm houses, barns and out-buildings give the appearance of prosperity, and the farmer who uses good paint judiciously is prosperous.

Good paint not only makes your farm look prosperous, but it makes farming more profitable to you, because it makes your farm buildings last longer and protects your stock and crops better.

Every farmer should study these things. We will help him. We have written very carefully a book called "Paints and Varnishes for the Farm," which is worth the thoughtful reading of every man who makes his living from the farm. It describes those particular finishes among the Sherwin-Williams Paints and Varnishes which are especially adapted to the use of the farmer. It tells what they are, how they are used, why they are good and where the profit to the farmer comes in in using them.

Write for this book today. Then look over your farm and talk with the nearest Sherwin-Williams dealer.

The book will help you; the dealer will help you; the paints will help you.

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S W P. (SHERWIN.WILLIAMS PAI

S-W MODERN METHOD PLOOR FINISHES<br>S-W BRIGHTEN UP FINISHES in any style.<br>durable finish for every house hold use.<br>S.W CREOSOTE PAINT S COMMONWEALTH bARN RED ${ }^{\prime}$<br>-for prolonging the life of barns and other roug<br>S-W METALSTIC No. ${ }^{2}$.

s-w bugay paint S-W WAGON AND IMPLEMENT PAINT
S-W - for preserving farm machinery.
s-W ENAMEL LEATHER DRESSING

-     - or renewing carriage topa and apron
S.W PARISGREEN LEASEATE OF LEAD
S.W MET preventing destruction of crops by inisects.
s.w MEDICINAL LINSEED OLL
- For treating and conditioning of horees and other
live atock.


The Sherwin-Williams Co. largest paint and varnish makers in the world hro Centre St., Montreal.



You cannot possibly hav A delicious drimk and a sustaining
food. Fragrant, nutritious and
economical. This excellent Cocoa
maintains the system in robust
health, and enables it to resist
winter's extreme cold.
Sold by Grocers and Storekeepers
in t-ll. and $\frac{1}{f}$-lb Tins.
Big Potato Crop at Least Expense
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THE FARMER'S ADVOCATE

## Questions and answers

 Miscellaneous
tine fencing, exc




Thiog Kemp Manure Spreader Equipped with the Reversible, Self-sharpening, Graded Flat-iooth Cyinder. Spreader. The result of $3+$ years in the use and manufacturing of Manure Spreaderial
Send for our catalogues, fully describing this machine, and also our Imperial
W. I. KEMP CO., LTD., STRATFORD, ONTARIO.


STUMP AND TREE PULLERS


 II is the only sump puller made onit makk: you have a chance paymens.

CANADIAN SWENSONS,
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THE FARMER'S ADVOCATE.


How a DAIN HAY LOADER and DAIN SIDE DELIVERY RAKE More than PAY for Themselves in One or Two Seasons







 No Bunching, Wadd ing or Tangling seasonst topy for themseleses beatalily and de



DAIN MANUFACTURING CO reston, Ontario

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Western Canada there are great opportunities for the wills ing farmer. He can make money and success of farming. We and guarantee to please the most particular. Let us tell you and guara, and how others are making money here. Write al once for maps and pamphlets and full information. Our years of experience are at Your disposa
are interested. Write at once
TRACKSELL, ANDERSON \& CO., REGINA, SASK.
British Columbia office: 1210 Broad St., Victoria.
CLYDESDALES AND FRENCH COACHERS
 R. NESS \& SON, HOWICK, QUEBEC. Fi....ns Stallion Goods mare impregnators It

## Miscellaneous <br>  <br> Antrse subscriber.

 Ans.-This trouble usually requires theserices of a surgen before boing fnill
cured. If it is woll tomented with warn cured. If it is wall fomented with warn
weter in the early stages, and the tol
wowing liniment appliced every day for two weeks, well rubbed in, the more seri
ous blemish may be avoided: Soap lini
 MILLET AS NURSE CROP
SEEDING DOWN LOW LANDSEEDING DOWN LOW LAN PLOWING DOWN.
I have some land very wet in spring,
hich I intend sowing millet.
Do vou think it possible to seed down with
ho same ? 2. What mixtures of grasses and clovers
would you recommend for land subject to Neralow in spring? Do pout tink Brome
krass would do in the mixture? grass would do in the mixture?
3. What do you think of sowing Crin
son clover wihh onts and barley, with son clover with oats and barley, with a
view to plowing down in the fall? Would the clover grow tall and prevent
cutting the grain.
Ans.-1. Millet, being a rank grower. Ans,- - . Nillet, being a rank grower,
with thick foliage, and being usually
sown later than ordinary spring-grain crops, is not satisfactory for a nurse
crop for sedting to grass or cover. On
croil such as you mention, you most likely
son Would have such mention, you moth of millet thely
the grasses or clovers would be choked
the the out and deprived of moisture and plant
food. The fact that the land is subject to
2. The 2. The fact that the land is subject to
overfow in the spring serves as no guide
to what grasses or clovers would suit.
Doubtless the area is heavy soil wet but it is possible for light soil, well drained, to be overrun by the spring
freshets. A good mixture for low. wet
land consists of land, consists of Red-top, 6 pounds: Ken-
tucky 1 Blue grass, 6 pounds; timothy, ${ }^{2}$ pounds; alsike, 2 , pounds, and red clover,
3 or 4 pounds. This would furnish a
3
rood stand kood stand for permanent pasture. The
red clover and timothy, though not per-
manent, would give fair growth the first and second seasons, and gradually woun
be replaced by the others. Brome gra is advised by some for permanent pas
ture on low land, but it is very persist-
nt, and so has theen discarded by many in the West liecause of the difficulty in
getting rid of it. an animson claver is, strictly speaking, not particularly not heard of farmers making extensive
use of it ine wav you suggest. Fx-
veriments indicate that common red clo
per ver or Maminoth red clover are superior
There would be little danger of it being
so tall that you could not cut A registered $\overline{\text { red yearling Shorthorn }}$ Sel
bull, sired by Bapton Chancellor (imp.). hull, sired by Bapton Chancellor (imp.),
is andertised for sale by Jas. R. Wood
Proston, Ont


## Clydustalde Stallion

 FOR SALE.



 GEO. BROWN, Prpon BRIGHT. ONT. 10 ABSORBINE

 imported Clydesdale dtallion



 Ormsby Grange Stock Farm, ORMSTown, P.Q.
duncan mefachrrana E. R. c. . s.s.o.v.s.
limpare nod bedere ot CLYDESDALES.



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

This New Pioture of DAN PATCH I:55 in Six Brilliant Colors
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ANCHYLOS
Bone Spavin and Ringbone
 ${ }^{3}$ Guaranteed to cu
address for one dollar.
rea h the peoppere is is.

J. A. McLarty, Thessalon, Ont Manufacturing Chemist.

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STALLION FOR SALE. black pringe No. 7

easy terms Applv:
S. S. LAWRASON, ST GEORGE. ONTARIO For Sale: Imported Clydesdale Stallion sired by the noted Baran's Pride (9122). Bay in
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Clydesdale Stallions and Mares!
 A fresh lot has just arrived, including many prizewinners. Some DALGETY BROS., LONDON, ONTARIO. Slables Fraser House. Address correspondence to Dalgety Bros.,
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nNEW IMPORTATION OF CLYDESDALES. will find them as chice alote, Bo ton. Ontario, P. O. and Station
broyally. T. D. ELLIOTI COMPLETELY SOLD OUT xpect to land my new importation
clydesoales and hackneys


IMPORTED CLYDESDALES
 Condangerdith

## QUESTIONS AND ANSWERS

 Veterinary. Wind leg for a year. When walking ging slowly or going quite fast she
sound, but when going at a smart she goes slightly tame. She wand Ans, -1t is not possible to diagno.n
trouble with reasonable certninty with
 going at a certain gait. With very few
vxeptions a lame horse will show more
marked symptoms when jugging slowly
with a free head than at any other gati:
 Fight-months-old cont, fod on first-class
hay, tran, grain and silage, and good
spring water, and turned out every day Chut he was not sien eating it), took
cerellorospinal manningitis, and died in
three days. What caused the trouble? A. B. D.
have been treated?
Ans.- If you are correct as regards thw
quality of the food an 1 water given to he colt, he must have eater some of
the spoiled silage, as the disease is caused and containing decayed vegetable or ani-
mal matter.
Treatunent in well-marked cases is seldom successful. It consists in
administering a purgative to remove all unabsorbed matter from un with iodide of
bowels, and following un wint fin a colt
potassium three times daily. For potassium three times daily, For a colt
of this age the dou would be about 20 grains umbilical HERNIA Yearling colt has a rupture the size of
a hen's egg just in tront of the sheath. it has been this "ny since last summer. growing it? $\quad$ E. C. B.
Ans.-This is an umbilical or navel rup-
ture. It is possible it may disappear ture. It is possible it may disappear
without interference, but it seldom does so after the patient is a year old. It
sould
wo to operate. In some cases a tetrinss com-
nosed of leather or canvas, arranged
nos. around the body so as to keep the bowel
pressed back into the abdominal cavity Tor five or six weeks will effect a cure.
It is hard to kepp, the truss from shifting, liul it can be done the Truss from shirtinge
There less danger
oin

worms.
of tall lmssed oil and it got better. he following prescription in . .The FarmWphate of iron and sult,hate of copper. metic, to the made into 21 powders. ok the prescription to my druggist and sun horre. is that so, purgative "ound raw linseell wil do as a purgative (III. 1...ir druggist does not know
 Cription giten is for a full-grown horse. oif sour coll, take one-third the amount
ionch drus and make into 24 powders.
and ain in anemen ond Cund Coach sallion, Black
aderticell for sale in this
fors.

APRIL 8,1909
MANYDON'TKNOW HEART AFFECTED. More People Than are Aware of It More People Heart Disease.
"If examinations were made of every-
"ne people would be surprised at the numone, people would be surprised at the num-
ber of persons walking about suffering from
heart disease"
This startling statement was made by a
doctor at a recent inquest. "I should not doctor at a recent inquest. is is should not
like to say that heart disease is as common es this would imply," said the expert, "but I am sure that the number of persons
going about with wealk hearts must be very going goout wich weak
"Hundreds of people go about their daily mork on the verge it it only when the shock comes know it. It is that the unsuspected weakness of the heart is made apparent."
"But undoubtedly heart weakness, disease, is more prevalent nowadaye. disould think that the stress of living, the wear and rush of modern business
have a lot to do with heart trouble." Thave ise is no doubt but that this is correct and we would strongly advise any one suffering in any way from heart trouble to
try a course of MILBURN'S HEART try ${ }^{\text {and }}$ OUNERVE PILLS
Prioe 50 cts. per box or 3 boxes for $\$ 1.25$,
t all dealers or will be mailed direct on at all dealers or will be mailed direct on
recoipt of price by The T. Milburn Co. recoipt of price by
Limited, Toronto, Ont.

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Manitoba, Saskatchewan, Alberta
 JuLV 13, 27 AUE. 10, 24 SEPT. 7, 21 LOW ROUND-TRIP RATES
 TOURIST SLEEPING CARS TOURIST SLEEPING CARS

 OIIL DIRECT LIME NO CHAMGE OF CARS
$\frac{\text { W. Fulton, Agent, London, Ont. }}{\text { THE "MAPLES" HEREFORDS }}$

W. H. HUNIER,


 Angus walTER HALL,

 Ang: Cattle, If bou require either of these

THE FARMER'S ADVOCATE

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WE ARE PRICING VERY REASONABLY
10 choicelyb-red rouns Shorthorn Bulls Also one extra good imported bull, 22 month old. We have always
good to offer infemales. Imported or home-bred. Write for what you want, or
 WHY NOI BUY A HIGH-CLASS SCOICH SHORTHORN COW, Or a Helfer, Or a Bull Or a Few Shropshire Ewes, Or a Few Cotswold or a Helfer, Or a Buil Now, While You Can Buy Them Low?
can offer you something in any of them that will make a wart second to none.
ROBERT MILLER, sIOUFFVILLE, ONT.
Write for what you want. Choice Scotch Shorthorns


- Stonetish Shorthorns and Berkshires

 dams. Also Hackney filliet. M. C. and P. M. Rys.
McFarlane \& Fora, Box 41, Dutton, Ont. $\qquad$
SHORTHORNS
 Belmar Parc. $\begin{aligned} & \text { catif tothre bulls. An unsurpassed lot of yearling heriers. } \\ & \text { John Douslas, Manager. } \\ & \text { PETER WHITE, Pembroke, Ont. }\end{aligned}$


VALLEY HOME SHORTHORNS and BERKSHIRES


| Scotch Shorthorns Canada' greates dred's Royal, heads my herd. For sale are young bulls and heiters show stuff and Toronto winnern Ma tchless and Belena damy, A visit will be appre <br>  | SPRING VALLEY SHORTHORNS One 14 month's old imported bull, bred by A M. Gordon. Good enough to head any herd Five be Canadian-bred bulls from 12 to 16 non hs. Will be priced very reasonable, as we do not want to run them over. <br> KYLE BROS., AYR, ONT. |
| :---: | :---: |
| Rowan Hill Shorthorns ${ }^{\text {The }} 1908$ <br> 3 spring bulls and a few heifers, sired by him. choice young things that are sure to please. Ont. Caledonia Station, G. T. R., or station 13 Rcad. | and out of thow cews. These are R. F. DUNCAN. Carluke Pe Hamiton and Brantford Electric Hamiloon and Brant |
| UNANTEID <br> Capable of taking charge of show and br J. A. Watt. salem. Ont., El | HITNDSMAN <br> ding herd. Apply, giving full particulars, to RA Station, G T. R. AND C. P R. |


$t$ is necessary to go back to March, 1908 , to find a time when lambs sord
higher than $\$ 8.20$ at Chicago. On March higher than $\$ 8.20$ at Chicago. On March
25 th, $1909, \$ 8.20$ straight was realized for 318 89-lb. Idaho lambs, fed by w. W. Grigsby andb F. H. Turner, both of Skidinore, Mo. These
feed about five months, during which time ted about a gain of 29 lbs. per head.
they made a
They were bought on the South They were bought on the South Omaha
market at $\$ 4.90$. They were run waste cornfield the first two and a hall months, and were on full feed the re
great is sheep industik " No other live-stock industry will show
up with that of sheep., when it comes to great gains and improvement in handling
them," says E. J. Huling, the well-known them, says wool dealer, of Trinidad
sheepman and worm in the Chicago Livestock Report
Colo., in the I. In 1880 I engaged in the sheep and pell
business in New Mexico. That year, acbusiness in New records, the total number
cording to the reter
of sheep marketed in Chicago amounted of sheep marketed in Chicago amounted
to only 335,810 . There was no other market in the West to speak of at that
time. Last year the number received at the five large markets amounted to 9,-
359,000 . Somebody has been educating che people in the United States to eating
mutton, and the farm papers have been coust persistent workers for this end."

A wramiling pet lambs. A writer in the Farmers' Gazette, of
Dubbin, Ireland, writes. "For the past
six years I have reared pet six years I have reared pet lambs, as my
Sufiolk ewes every season have yeanod a couple of scts of triplets and I find no
trouble in rearing them. $M y$ plan is as follows For the first four or five days
the lamb gets a feding bottle of fresh
cow's milk and boiled water in equal pows milk and boiled water, in equal
parts, and a teaspoonful of treacle cevry
three hours during the dey and once al hree hours during the day and once at
hight. Then I gradually add fresh skim
niks instead of water and stop the night ced, and lly the time the tamb is a fort-
hight old it is receiving four botles in and I find they make just as good lambs
and those reared my the as those reared by the ewe. Their bow-
els must the regulated by the amount of
t

Ollicial records of 155 Holstein-Friesian stein were accented by the American Hol-
Astion from March 5 th to
Warch 15 th, 1909 . This herd of 155 aniMarch 15th 19049 This herd of 155 ani-
mals, of which about 422 per cent. were
heifers with first or second calves, produced in seven consecutive days 61,531
libs. of milk, containing 2,159.828 lbs. of butterfat; thus showing an average of
3.51 per cent. fat. The average produc3.51 per cent. fat. The average produc-
tion for each animal was 397 Ibs. of
milk. antaining 13.934 lbs . butter-fat; mik, containing 13.934 lbs . butter-fat,
equivalent to 56.7 lbs or 27 quarts of
milk per day. and $16 \ddagger$ lbs. of the best mik per day, and $16 \ddagger$ ibs. of the best
commercial butter per week. In this issue
 ths. milk in 7 days, 89.764 lbs. fat from
$2,405.8$ lis. milk in 30 days, leads the aged-cow class. In the senior four-year-
old class, Johanna Vernon DeKol appeara Old class, Johanna Vernon DeKol appears
with the fine record of 22.878 lbs. fat,
from 590 4 from 590.4 lbs milk in 7 days, 90.763
bs. fat from $2,396.1 \mathrm{lbs}$. milk in 30 days: While Tirania Hengerveld Burke,
20.118 its. fat from 524.4 lbs milk,
fain gains a place in the 20-1b. list. Meadow
Brook Janet, 18.867 lbs. fat, from 442.7
 ang lbs. fat from $2,011.7 \mathrm{lbs}$ milk in
an days, are at the head of the junior

 2.195 .5 lbs milk in 30 days, and Kaate
Posch. 16.011 lbs fat from 400.9 ls .
Whe milk: while the same relative position
mong the junior threes are held by Ykema Wayne Mercedes the ond. 16.531 lbs.

$\qquad$


APRIL 8, 1909
QUESTIONS AND ANSWERS. Miscellaneous.
wandering geese. 1. This district is what we term
"open." Chatte run the roans. Can
rose, which go on the road be stoped
 tences? against them aggings them?
3. Would owner of geese be liable tor any damages caused through ravages
geose on crops under above condition gesese on crops under abeve conditions
where tences are very open at botiom ? Ans. -1 and 2 . These mattors are regu-
Atod by local statutes and by-laws; and it it ip ossible that under same there may
be provision made for impounding poul. be provision made tor impounding poul
try when found at large, trespmasing en doing damago.
3.
Wo think
to

## TRUMPET VINE. I would like to know if the pant, or fower, called trumpet vine, is andager- ous plant for a farmer to grow. 1 have given my order tor one to come this dering, and I have heard sinco that it spring, and have heard since that it vill spread over a ten-acro field in a fow years. Please give me some information READER. Ane. - Although the trumpet vine (Teco- and ma radicans) sends up numerous stoon trom its rootso thero is litro danger of olant or two, used tor ornamental purposes around a Canadian residence, over- running \& farm, or oven causing serious  able ornamental for your district. It is gaid to be hardy only as far north as Massachuset ts, although shots each season and give some bloom SAWDUST AS STABLE ABSORB-

 Does sawduct make a good stable ab-sorbent?
Would it it have a bad effect or
 Nem Brunswick.
Ans. - Sawdust m
 $\underset{\substack{\text { manure in moderate amount, chough on } \\ \text { a very light sandy soil it might possibly }}}{ }$ have a doletenious efroct in opening up
the texture unduly.
on the other hand by its gradual, albeit somewhat slow do
cay, it will eventually add to the humus cay, ten wil eventuall Rather than do
content of the soil.
without anv stable absorbent at all, we would certainly employ sawdust under
most any circumstance.
butter from crean.
How many pounds of butter wsuld
there be in 10 , ins. of cream. testing
248 butter-fat? Ans.-The amount of butter that may
be made from a sample of cream will dopend upon the thoroughness of the churn
ing amount of salt added. and the ing, ampount of salt added, and the
amount of moisture which the butter
make Cat (though this should not exceod the the dairy breed socientes.) in calculating
the amount of buter that may be made trom ant given amount of milk is to add
onesixtib to the quantity of fat in the mik. On this basis 15 ibs. of cream one way or the other. CATES RECOGNIZED BY our rallways.
longer recognize American Shropshire As-
Rociation Ant
ments by freight. Is this true
2. If if his is so, have we got to get Mor sheph recorded in the National rec-
ords, that are already recorded in the Amprican" a hopeful shepherd.
 ing mirposes, only Canadian Record As-


THE FARMER'S ADVOCATE.


Mrefence moncton, n.b.

## OIL CAKE

The finest feed known always a user. Sold either fine or coarse
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 Issue


## 612



Sale of the Most Celebrated Herd of Ayrshires in the World
 THURSDAY, MAY 20th,
his world-renowned herd of Ayrshires, consisting of
over 30 head of the ehoicest cattle ever exposed
public FRIDAY, MAY 21st his clebrated stud of C1, desdales. consit ting of 30
head. mostly Macgregor and Barrnis Prid blood. Included in the sale will be the dam and fill siter
the champoion show and breeding horse Baronis
bem and the dam of criterion : all surc is is teembernd the dam of Criterion iall sure in foal
Catte bought for export under hrree $y$ ars old $t$
 CATTLE AND SHEEP LABELS

 Catie labels with nume and address and numbers.
and numbers. Write tor sample free.
P. G. JAMES. BOWMANVILLE. ONTARIO. Ayrshires $\begin{gathered}\text { Hrom a Prizewinning hero } \\ \text { Have some nice bull and heifer }\end{gathered}$
 AYRSHIRES $\begin{gathered}\text { Bull and hetite calves trom pro- } \\ \text { ducing dama. Right good onees }\end{gathered}$


OUESTIONS AND ANSWERS Miscellaneous

MISREPRESENTATION Bought a bull calt three months ago.
Was told then that its dam was three
Out irom an imported dam. out irom an mpported dam.
yet receeved the pedigree, but received a
copy of it which shows dam of calf to be seven out from imported. Money was
paid at time of buying. Do you think
there should be any consideration?
Should part of money be refunded ? Should part of money be refunded?
ELGIN.
Ontario.
Ans, -1f the purchaser, when buying, relied upon the representation in question,
and did so to the knowledge of the vendor, making no independent investigation,
the latter is liable in damages for the misrepresentation.
HIRING AND WAGES A hires to B for a year at $\$ 235$, A
to board himself. B Bets a contract
from the Towne. Council road-making, the
Council paying $\$ 3$ per day for man and
team. B wishes to send A, with teant,
to work at this. Is A bound to go, and, in addition, do chores morning and even-
ing. for his ordinary wages, i. e.. 64c. ing, for his ordinary wages, i. e.. 64 c,
per day, nothing being said about this
at the time of hiring ? Ontario.
Ont
Onter Ans.-A cannot claim any higher wages
while the present contract subsists; but while the present contract subsists; but
it is possible that he may properly de-
cline to do this roadwork as being something which was not in contemplation at the time the contract was
BUGS. A rents farm to 13 for one year. Be
fore the year expires and B moves out,
A finds out is has polluted the house on $\left\lvert\, \begin{aligned} & \text { A finds out } 13 \text { has polluted the house or } \\ & \text { farm with bedbugs. Can A compel B to to } \\ & \text { clean said house of said bugs before leav }\end{aligned}\right.$ clean said house of said bugs before leit
ing said farm?
SUlS Ontari
Ans.-
lease containing the usual statutory cov-
enants, A would be entitled to damages enants, A would be entitled to damages
from B, if, after notice to hiun to rid
the house of the bugs, and to leave it in
the good condition generally, he should fail
to do so, and even if there be no buch
lease, BB would probably still be liable in damages, if it was owing to negligence
dan his part that the house became in-


WHITEWASH RECIPE
What is a cood recipe for making
whitewash that will sland weather or
friction indoors? G. W. O. M.
Ans.-Taie half a bushel of unslaked
lime. slake with warm water; cover it lime, slake with warm water; cover it
during the process to heep in the steam,
rull the liquid through a fine sieve; add


CANADA $\begin{aligned} & \text { RED APPLES-LIGHT } \\ & \text { NING RODS }\end{aligned}$ 1. 1 NING ROD an orchard just liegmning th


 Wh- While Canada Red is an anph
Cuir


## ERADICATES SCAB

The wonderful feature f V 1 Fluid is its absolut safety to user to animals,

## Won't Harm Trees safety to user, to a

V 1 is a revelation in Fruit Culture. Kills the spore of Fungi, and all growths such as Moss, Black Knot Canker, etc.
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Larse impreved Yerkshire $P$ P
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|  | - |
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| llan P. blue, Eustis, que |  |

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BRAMPTON, ONT.


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CONSTIPATION
IRREGULARJTY
OF THE BOWELS
Any irrogunarity of the bowold in ineryb 1

MILBURN＇S
LAXA＝LIVER PILLS

 contrary，toning
overord in relieve
of conatipation．
of conatipation．
Mra．James King，Cornwall，Ont．，writos： ＂I was troubled with sick hoaddaches，oon－ etipation and catarrn of nothing to do ee any good until I got a vial of Milburn＇s Laxa Liver Pilla，
They did me more good than anything else They did me more good than anything else etipation，and the catarrh of the stomach
in ontiroly
gone．I feel like a new moman in ontirely gone．I feel like a new woman，
thanke to Milburn＇s Laxa－Li vor Pills． 1 uned in all about half a dozen viala ${ }^{n}$ ． und in
Prioo 25 conte a vial， 5 for $\$ 1.00$ ，at all
dealera or mailed direct by The T ．Milbura doalors or mailed direct Oyt．

danger in following this plan of cleaning
d．HARCOUMRT rotation－number of cows 1．Can you suggest any iumprovement
on the foliouing five year routation ： 1 Ilover； 2, grain（oats）； 3 ，grain，bar
ley and onts，mixed；4，routs，corn an
ley better arrangement of the above－men
ioned five crops as a five－year rotation， with $3 / 5$ of land in grain，$\frac{b}{}$ in clove．
and $\frac{y}{2}$ in rotst，will be very acceptable．
2．How many milk cows could 2．How many mith following availabi
profitably fed with
feeds ： 17 acres，average permanent pa ceds： 17 acres，average perimanent pas
fure； 10 acres，average affalfa hay
ares．corn and ronts．and straw of 4
4
acr． 8 of grain，with additional meal nece
sary ？
Dufferin Co．，Ont．J．F．M．
Ans－1．We are of opinion that，not－ withstanding the fact that our
has 17 arces permanent pasturo and
acres of alfflfa，he is proposing to
$\qquad$
$\qquad$

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


March Offering！
 0 BoaRs ready for mond serviee
 H．J．DAVIS，woodstock ont．





## YORKSHIRES

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 courage enough to tackle anything． My Filecteind every orgun will do its duty：pain and weakness will disappear foothing electricity into the nerves and organs all night long，and is taken up
them just as a spongc＂absorths water．It restores strength to every part Do vou doubt it ，if so，any man or woman who will give me reasonable

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## HA! HA! HA!

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"Stripped of all its exceptions and provisions I don't see how anyone could be serious about it."
"I go by what I know has been done, not by what is promised. For instance, I know that 'Eastlake' Metallic shingles have been in use for twenty-five years right here in Toronto, where they're made, and that those same shingles are in perfect condition now."
"Just listen here a minute. I'm getting serious now. The Metallic Roofing Company began to make metallic shingles years before anyone else in Canada. They were made right when they were first made. The Metallic Roofing Company have been continually making new designs for ceilings and walls, fronts and cornices, but as for shingles they have never seen an improvement on the 'Eastlake' steel shingles which have been made, laid and proven for twenty-five• years:"
"I've noticed that most metal shingle manufacturers change their pattern so frequently that I'm led to believe they, themselves, haven't much confidence in their own goods. Yes, they even confidence in their own goods. Yes, they even previous product.'


> "I'm prejudiced, you say? Of course I'm prejudiced, but it's a prejudice founded on years of active use of the metallic goods made by The Metallic Roofing Co. It's an old man's prejudice based on a long experience."

Write for booklet which tells more about 'Eastlake' Metallic Shingles. They are sure proof against fire, lightning, rust or weather in all climates. They are the easiest and quickest to put in place and the most durable when laid. If you send the measurement of any roof an accurate estimate of cost will be sent free."

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Chatham Scale.

Mr. W. F. MacLean, M. P. for East York, Says This About the Scale: " Some days ago the Chatham 5 -Ton Pitless Donlande Fardered from you came to hand. The farm foreman and dnother man went to work as it in the torning. and in ine thandernoon they
had it all set up and were weighing on it before supper. The directions were had it all set up and were weighing on it before supper. The directions were so explicit, and
the parts so simple that they had no trouble in putting the scale together and verifying the weighing capacity. Ast well as beeing usefulut for weighing heay and straw and things of that
kind. it is very useful for weighing catte and other live stock. One good way of selling kind, it is very useful for weighing cattle and other live stock. One good way of selling
horses is to be able to give their exact weight; and the way to get most for cattle and hogs is to know their weight before leaving the farm. Your scales are admirably adapted for

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