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# The Farmer's Fdvocate <br> Persevere and Succeed. <br> <br> and Fome Nragazine 

 <br> <br> and Fome Nragazine}

EDITORIAL.
In the United Kingdom, all the Government can expect is to enjoy two consecutive terms o than a quarter of a century would consider itself narshly dealt with.

The severest argument against horse-racing have ever heard is the claim that it requires gam-
bling to maintain it. Is racing, then, or is gambling, the "sport of kings ? We have no serious ubjection to racing, properly conducted; but if it cannot exist without the colossal abuse of gambling above the improvement-if it be improvement-of our horseflesh.

There can be no manner of doubt that the pooling oi checsefactory proceeds is steadily increasing the amount of milk required to make a pound of cheese. At the Western Dairymen's Convention had been lowered from $\frac{1}{2}$ to $\frac{8}{1}$ a pound of milk per pound of cheese in one season as a result of paying according to the system, "per cent. of fat,
plus two." This is the fairest plan yet devised, and equity is the surest basis of progress.

A Montreal paper, seeking to make out a case for racing as a means of improving the courage, speed and stamina of Thoroughbred horses useful
in the breeding of cavalry mounts, sass: "The eves of those who look upon racing as a pas-
time have been opened. The serious side of the work has been shown." So it seems the Yankee
touts and gamesters who have come over to us touts and gamesters who have come over to us
to make racing attractive, are engaged in a grand, to make racing attractive, are engaged in a grand,
noble and patriotic work for the strength and glory of the Empire, and the beterment of the
race. Ah, hem! Appearances are deceiving !

Denmark is a prosperous little country, ruled by peasant-farmers, ninety per cent. of whom own
their own holdings. The farms are small, but worked like gardens. The state owns the rail wavs, and makes them serve the farmers. Edu-
cation bears directly on the farm. The state loans money for the purchase of farms. Co-opera-
tion has minimized outlay and firen the producer a fuller return for his bacon and butter and poultry products. Illiteracy is gone, and extreme
poverty reduced to a minimum. It being a freetrade country, the cost of living is low. It buys
where it cas to best advantage, and sells its where it can to best advantage, and sells its
highly-finished farm products abroad.

For one (:arfield or Lincoln, or Hill, there are
hundreds who left farms in boyhood davs, and
nsver attrined a position equal to that of the average farmer. With more reading, more think-
ing, and more planning, the average condition and contentment of the farmier can be made higher than the present average. Perhaps for those whose
aims are fame and fortune, a withdrawal from the farm would be best, both for them and the farming industry. For those who esteem good-living, character, and the solid satisfaction that comes of acquiring an adequate, fairly-earned competence through the production of wealth direct from nature, agriculture is the sanest and best occupation

LONDON, ONTARIO, FEBRUARY 3, 1910

Why Living is Dear.
During the past few weeks public attention has been turned in a very pointed manner to the stead ncreasing cost as measured by currency which as ve have previously pointed out, is a variable com modits, rising and falling in value as the supply precious metal in the world decreases, or augnents in volume relatively to the demand for it When gold becomes comparatively plentiful, the Cendency is to decrease the amount of other prod acts that can be purchased with a given quantity of it: hence gold is cheapened, while prices (o) ther products) rise. This is hard on the man ho lives on the interest of his money, hard on hard on all those who have to depend on fixed in come. It is probably correspondingly advantageous to certain other classes, but the net effect is to disturb economic conditions and adjustments entailing hardship here and there.
Sut there are many other factors bearing on the problem. One is the advancing standard of living. What were once rare luxuries to the Choicer food, including more meat (and notably a hore gemal demand ror the select cuts), more Corical fruit, and a greatly increased consumption a few items that will suffice to illustrate this point. More good clothing, especially for ordiary wear, and for children, is also bought. In furnaces and other heating systems; gas, electric or acetylene light; conveniently-piped water supply, plumbing and sewage disposal ; more light, more ventilation, more sanitary conditions, more sense. On the farm we have much more ma chinery, some of it economical in its saving of Jahor, some chiefly designed to promote ease and Tisure. We rest more, travel more, and have more recreation. All these things tend to counteract the condition of abundance that should esult irom the cconorny wrought by invention, causnd preventing decreases in others. factor that has been stealthily creeping upon us. For example, take the retail business. To be successful, a storeh ceper must keep up a " front." costs considerably for rent, and rents are increasang as cities grow. He must advertise liber ally, keep an attructive store, and hire well-paid, well-dressed clerks. He must keep his shelves
filled with new and fashionable goods. By the way, fashion has a great deal to answer for in
raising the cost of living All these things must raising the cost of the drop behind in the race competition. Yet, all these things constitute charges that must be met; they directly affect the retail price that must be set upon the goods. Fortunately, the advent of the cash system, and
the increasing business resulting from growth of population, tend to ofliset the increasing charges named above, but these two latter influences should be producing a decrease in the necessary margin of doing business. Pake insurance, bank ing, manufacturing. Who pays the princely salarles, who erects the parno meets the rental of the increasingly valuable sites they occupy? The consumer or patrons of the institutions every time. The price charged for goods, the interest paid on
deyosits, and the discount rate on loans, are all fixed with a view to mecting such charges, and then paying a profit on top of that. True, as tated above, the most sue or fiten those that maintain appearances, just as promoter or stock-broker to live in extravagant style; but it all comes out of the consumer's or patron's pocket in the end. Could we only arrive at the annual rental value of real estate in the business sections of ou Canadian cities, the amount would be staggering Who gets all that? The lucky landlord. Wh rays it? The consumer-the general public. But, we hear someone object, the advances re cently complained of have been in meats, eggs, and farm produce. Yes, but did you ever reflect how sensitively the farmer's business and position i realized that tarifis and bounties which build up ralized that tarins and boun in whr cities, at the primary expense of farmers, must decrease the numbers and hamper the operations of the men upon the land? Artificially-enhanced cost of living on the farm tends directly and inevitably to restrict the farmer's production and increase the price of his products as sold in the cities. The pronounced cityward drift of population in Amer ica has been partly due to this very cause. Eco nomic conditions readjust themselves in time; the very course meant to build cities ultimately reacts, in a measure, at least, to their detriment. Thus, the agricultural population of America ficient to feed the population, and a hint of scarsends prices bounding, particularly for the
 creased cost of doing business, spoken of above ccotints for an increasingly wide space between the price of cattle and the retail price of beel, as ndicated in U.S. Secretary Wilson's annual re ort, which sets forth that the cattle-feeder was since, while
t all. Another fact: The system of education in this people from the land, and, together with economic onditions, has reduced the numbers, detracted from the enterprise and lessened the success of the neople on the land. This is now being glimmer ingly recognized, and material change may be ex pected within the next quarter or half century. We leave economists to wrestle with certain other abstruse considerations of an internationa character. some of them hold, for instance though others dispue it, that cheap labor in tion to the silver coingre, has the effect of lessen ing the buying power of gold in the newer countries of the world and that until China and othe countries begin to live better, prices will continue o go up. Others dispute this view. Howeve shor may be, there is in America a present loca shortage of foodstuffs, and local remedies will not
Personal thrift, not boycott, is to be recom nended the steady reduction n tariff imposts will help; judicious economy in government; public ownership of municipal real presents and as the people become educated to re sponsibility): co-operation in some instantices, forincing producer and consumer together; removalo costly and hampering exactions from city markets effort on the farmer's part to study economy o production; labor-saving methods and improved practice, are other suggestions which, if acted upon, would
well-being.

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Keeping the Boy on the Farm. First of all, make the farm pay better. Thi is mot put foremost because it is most important persons. As a result of a systematic inquiry Cornell University, Dr. L. H. Bailey found young men reared on the farm who purposed leav-
ing it, 62 of them for the reason that they did ing it, 62 of them for the reason that they did
not see money in farming. The replies were from West, as well as East. Now, as a matter of fact, we know that thousands of men, under all
sorts of conditions, do make money steadily farming, and live in comfort, but the farms these young men had in mind were not money-makers or else the process was too slow. How to improblem, but in a general way it is a matter of energy and intelligence. The adaptability of the farm must be studied. What crops or products will it give to best advantage, for which there
good demand? A specialty should be made something. This does not mean to make a hobby age 100 -acre farm slide. But get the avername for fine horses, beef or dairy cattle farm a name for fine horses, beef or dairy cattle, swine,
poultry, butter, cream, seed grain, or apples, so
that buyers can alwa's and not be disappointed. That is a sure way command the best prices. Stop the leaks, study
to improve. 'lan liberally. Do, not dream of to improve. Plan liberally. Do, not dream of
short-cuts to wealth somewhere else. They are disappointing. Farm better, and the business will pay better. Then wiil the young man begin t,
see a financial future of brighter promise. Reassume serious tasks, wive him, when old enough to assume scrious tasks, give him a tangible interest tuore paying proposition. Alsove all. consult with him. and try to enlist the boy's interest in $2-2+$ $2=0$
institution when he goes there on the Farmers' Institute excursion. Provide your home with
the best agricultural literature available, both books and papers.
Over 50 young men said they were going to abandon the farm because of too much hard work, long hours, and monotony. How is this to be to work too much land with too little help and lack of system. The boy is set alone at some hard, disagreeable job which he doas not understand, and the father or employer does not give him a sympathetic word of explanation. No wonder he becomes weary and disgusted. The youth is a natural questioner, but he gets no encouragement. His interest is not aroused by any
suggestion as to why the work is being done, what suggestion as to why the work is being done, what
it means, or how results may be improved. Get so much done, and then, perhaps, without a wo of much done, and then, perhaps, without a word
of comendation, tackle another task. Work is done by physical drudgery, that a wisely-chosen implement, properly used, would make almost a pleasure. The boy likes companionable talk, not inorose or moody silence in barn or field or or chard,. or by the fireside. Any wonder that he plans for the corner grocery, or finally the town? The remedies are obvious. Talk the farm up,
don't growl it down. Some boys are actually driven off the farms by the everlasting disparage ment that they hear about the farmer's lot and hard times, even when the grumbler has a fat savings-bank account. Cheer the lad; don't discourage him.
Nearly half a hunared. American young men advantages. For such of social and intellectual reason whatever, and in every well-ordered Canadian farm home or neighborhood they are speedily passing away, through the cheapening of good literature, libraries, music, social intercourse, aily-mail service, improved facilities for communication and travel, and all sorts of local organizaions for improvement and recreation.
But there is another side to this ${ }_{d}$ whole subject. rrue, 40 per cent. of those 155 students though Chey saw no financial reward for them in the busitoo exacting, and as many more physical labor for lack of social opportunity. But Dr. Railey pursued his inquiries further, and in the ases of 88 town or city-bred students, found that they
were going into farming occupations because they desired outdoor life, loved nature, regarded farm ing as the most independent and healthful occupation, more interesting, sufficiently profitable, and children. The best home-life for themselves and a class of 193 students who hificant replies were from farm life and college life, and were experience of the farm. In carefully-written letters they stated on " The Trans, which Ir. Bailey, in his recent worl follows: PERSONAL PREFERENCRS. Love of outdoor life and nature- 55. Love for living and growing things-28. Love of free life on the farm-15.
Natural bent to farm-5. Have already personal interest in a farm-s. ADVANTAGFS OF FARMIVA.
An independent life- 77 . A healthful life- 41 . the agricult ural colloge, if he likes the look of the

Opportunity for individual work and initiative Cheaper living than in city-3
More knowledge required than other occupe More
tions-5
One

One can see the fruits of his own labor-2 Provides a better life in old age- 1 .
Life is not monotonous-1
Life is not monotonous-1.
Farmers have good food-
Opportunity to acquire property
Provides both mental and physical work-4
Offers a variety of work-4.
Work is useful ; affords good training ; easy in Readers young and old cannot do better thas put in their thinking-caps all the foregoing reasons The general result of the ingury is hopeful, it shows that the young men being reared American farms are not altogether money-grabbers, and are doing some thinking. of the 261 students who planned to be farmers, money-making was not the supreme motive. The love of nature and a free and independent life counted more with did nom. They evidenced pride in the calling. They did not apologize for it. They were hopeful, and
they had the proper vision of the new century country life. These young men will tainly make money, and plenty of it ther farms; that type of men always do and they will gather in their homes what is infinitely more important : the results of liberal education, personal influence, character, service, happiness, and con-

The "Smaller Farms" Competition
For some time after the "Smaller Farms" the subject wes one feared the subject was one that might not specially apment of the subject as proposed . Ad the treat Methods and Profits of Smaller Farms," with much detail on the latter point as possibe, wa sented difficulties to many who had the necessary successful experience. But the editorial heart rejoiced at the response that was made to the anProvince from Ontario, eastward. One, indeed, came O hand too late to be considered. In all, sixteen Articles such as those to which the prizes have been awarded will certainly be helpful and inspiring to many readers. They show what can be ac-
complished on small farms when system and goodjudgment are joined to indusiry rystem and good andment are joined to industry. They will prove discouraged over their limited area, and have fel have thought, limited prospects area, and, as the resh hope and courage The prizewinners are not the only ones who have a stirring story of achievement to tell. Over of merit, not only as to their literary character a Some were disqualificd because they were the theories of young mon who as yet had not the chance to put their ideas into practice. Theories very good papers had to be marked down because and over. The well-written essay of W. B. Rittenhouse went rather to the other extrome, and gave a detailed and surprising statement of and ible returns from surprising statement of posin our readers' eyes, seem superior to those that received the awards, These were sent in by An-
drew McPherson, drew McPherson, P'ictou Co., N. S., and E. Augustine, Lambton Co., Ont., and it was only after careful consideration that they were debarred from the place of winners, the former because no
statement of receipts was given, and the latter on account of the inclusion of matter somewhat irrelevant to the subject, to the exclusion of details one or more phases of the subject, but good on The first prize goes to Wm. Blain (nom de
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febrijary 3, 1910 THE FARMER'S ADVOCATE.
able and most encouraging, as showing the ex- bush at the back, adjoining which was about nin
acres of permanent pasture land, which was ver
vesults possible in a modest way. Two or three lessons can be learned from the experiences given. only possible, but profitable. Many who farm (100 acres or realized by some from farms not half the size. Another is that, where soil and climate are suitable, and markets convenient, the growing of small fruits and vegetablunity for almost un-poultry-keeping, in in both labor and receipts. third point, emphasized by several, is that on a small farm a man may have more leisure, is not ohliged to endure the worry and expense of hired help, and, in consequence, the willy, thoroughly and punctually done, and gives reater satisfaction

Canadian Commission of Conservation
The idea of a comminaled in the United States natural reso he Imand Ond andum to the President, suggesting that the time had arrived for the adoption of a national policy of leading men be held in the white House to consider the question. The suggestion was acted on 19c8, and adopted a declaration of principles, fol owed later by the appointment of a Nationa commission. Following this, on President Roose nce was held which included representatives from the United States, Mexico and Canada. Upon re ceiving the report of the Canadian delegation he Dominion Government determined to adopt the principles agreed upon at that conference, and conThis Commission is made up of three members of the Federal Government of each Province, with sities of the country. It is non-partisan, having The Commission is not an executive or adminis trative body. It is advisory only. It is con
stituted for the purpose of collecting exact infor mation, deiiberating upon, digesting and assimi
lating this information, and advising the Govern lating this information, and advising the Govern
ment as to the best policy to be pursued in the conservation of the natural resources of Canada. epochal change in public sentiment, which, having tural resources, has recently come to realize the possibility of their exhaustion or serious impair portunities in the interest of posterity, determined, while permitting their utilization, to insure that renewal and perpetuation of forests, fisheries mines. farms, and even human energies. As an
illustration of what may be accomplished in the Why of use, combined with a policy of conserva-
tion, we recall Dr. Fernow's statement that Prus-
sin, with hut derives seven times Ontario's annual income from
0
Town Man's Success on a Small FITST-PRIZE FSSAYM IN THE SMALLERIn the summer of 1901 I decided to engage in
farining. My carly boyhood had been passed on could it was working for a salary in town, and
consisted
sendence ahead. My capital furniture. My farman $\$ 1,000$ besides houschold
small children so that small children, so that all outside work and some
rough, and contained logs, stumps and berry
bushes. The buildings were a good brick house heated by furnace, a bank barn, and a silo, all in good repair.
I invested in only necessary implements-a
mower, rake, plow, disk, scuffler, harrows and smaller articles, besides necessary vehicles. I hir my farm it would not pay to invest in either fo a few days' work each year, and they would re
quire extra building to store them. I divided the farm into six hields, and try to follow a rotation, as follows: lirst year, hay
second year, hay; third year, pasture; fourth year, oats; firth year, roots, potatoes, corn lover and timothy. My main crops are hay, oats, potatoes and
strawberries ; other crops, corn, roots and garder vegetables.
I grow only the best varieties of oats and po tatoes, and I am able to dispose of my oats for seed at a good advance on market prices. I Last
year I received 75 cents per bushel for all I sold. My lund is a sandy loam, and is rather low, so
that I have never tried to grow wheat or barley. In potatoes, I try to have bulk of crop of early
varieties, which find varieties, which find a ready sale, at good prices for shipping
I soon found that my land was well adapted to limited market, at and as there is here an unacre, which vields from $\$ 300$ to $\$ 400$ per season. I set out a half acre each year, and thus take two
crops off before plowing down. The old generally comes in a few days earlier, old patch off one-sixth of an acre, at an average 1,400 boxes per box. Last year we averaged 9 cents per box The strawberry crop requires a little change the rotation, as I like to have them follow pota-
toes, and, as they are two years in the ground toes, and, as they are two years in the ground,
they will be in corner of oat field. I run a temporary fence around them if I wish to pasture
field. This farm had been occupied by a dairyman, who kept a large stock, and the silo was 14 feet
in diameter. This is too large for my stock, so I do not use silage, but store strav in silo. As
to stock kept now, the locality decided that dairying on a small scale would pay well, so dairying on a small scale would pay well, so I keep
six milch cows. The bulk of the milk I dispose of to a dairyman, who retails it in town. The price received at door is 5 cents per quart in winter,
and 4 cents in summer. I have five of the cows and 4 cents in summer. I have five of the cows
Ireshem about October 1st, and the other one in the spring, as the demand for milk, and the Mrice, also, is better in winter, and the heavy Io it all myself. I find that cows milk well or ten to eleven months. One coming in spring
insures us always having milk insures us always having milk. I sell or veal the
fall calves, as five-cent milk is too expensive for calf-feed. We make butter from any milk that
the dairyman does not take, as in June, when he has a large flow from his own cows. In order to dispose of any surplus skim milk, I keep a pure-
bred Yorkshire sow, and the returns from her progeny add cossiderably to the year's income.
I keep a small flock of pure-bred Plymouth I keep a small flock of puro-bred Plymouth Rock hens, and find good sale from early chickens
for tourist trade, but they evince a fondness for
strawherries for tourist trade, but they evince a fondness
strawberries and tomatoes which make them a
doubtful asset doubtful asset.
To do the work of farm, I keen one team of
horses, one being a brood mare horses, one being a brood mare, whose yearly colt
also adds a little more to income.
Besides the cows. T only have two or three Besides the cows, I only have two or three
young cattle at one time, as pasturage could mot
carry them. carry them. These I send out to pasture in summer, paying 50 cents per month per head. To
help pasturage for cows, I grow a half-acre of
rape. and same of oats and peas. The rape is rape. and same of oats and neas. The rape is
cown in drills about. June ist, and as soon as high enourh I keep going through it and thinning nut to feed cows at milking time in stables. If
sown thickly, and kept cultivated, it stands a lot
of thinning. As I do not grow corn for silo. T sow a couple of acres of sweet corn. Kendall's
Ciant is my faverite. I sell a good many dolGiant is my favorite. I sell a good many dol-
lars worth of green corn, to he shipped away
north, and the balance, with stalks. are my denorth, and the balance, with stalks are my de-
pendence in fall, if pasture should he short. If
not used, they not used, they oo into harn, and help out winter
feed till ahout Februare ist. Ahout an acre and n half of roots and three to pour neres of mota-
tone are grown. The latter hring in from $\$ 70$ to Sinn per acres Talso row a few ereen neas, to

I have found time diring the last few years to and buildings in good repair. I have replaced about half of rail fences with woven yire, and
cleared up rough fields at back, and brought them into cultivation. They are now the best part he farm. awn.
The only help required has been a man in hay-
ing and hoeing time, and threshing, besides chilI have found that with a smalle farmat iversified crops, at no time of the year are we ushed like those on larger farms. Our seeding and havesting can all be done at proper season, as we large returns per acre, our income per year comares favorably with larger farms. We also have eaie leisure for beautifying the home and premAs :o financial returns of my venture in farm$\$ \mathrm{ng}, 0 \mathrm{as} 1$ caid before, I started with less than over $\$ 2,000$, bes ' es enhancing value of place. The and this year will see us clear, with farm and stock and implements worth four thousand. have also made eleven payments on an endowment will soon be payahle. We have not stinted ourselves, either, but have
bad everything we needed, and some luxuries be sides. I might say that our income last year
was $\$ 1,250$, besides a good part of living from farm, and we spent $\$ 750$, so that $\$ 500$ was left 'to reduce the indebtedness. After this year, we look forward to having a growing bank account. My two boys are ten and eight years old
(there is another little one now), and are able to help in the garden ; and as they grow older, they can find plenty of employment right here, without our increasing the acreage, as we have only to
increase the amount in small fruits, strawberries and potatoes to provide work and income for all. The work is not heavy, and there is not the same Arudgery for young folks as there would be where
a large acreage was cultivated and. a large stock

Itpon reviewing the situation, we have never et regretted our move in entering the ranks of simcoe Co
[Note.-We consider this a most instructive
story of experience. The real name of the writer,
although known to us, is withheld from the public
lowed are, for the most part, good, prices encour-
aging, and results excellent. The crop rotation
is, to our mind, improvable. We should think it
wauld pav to
wauld pay to grow more corn, and annually fill a
practice is commendable, while the story of it is
told in a lucid, well-balanced article Note trat
hoth methods and results are given in reasonable

## HORSES

To Stop a Horse Kicking in Harness

## ${ }^{\text {A }}$ reader asks how to stop a horse from kick

 ng in harness. He has a single driver that occasionally kicks, and desires a remedy. The fol lowing plan will be found effective Some years ago the writer saw demonstrated a
contrivarice for stopping kickers that was about as punished the kicker automatically. Every time punished the kicker automatically. Every time
he made an effort to dust his heels in the driver's face he had his head yanked up so suddenly that firma, and after about three attempts to kick, of which the first only was a genuine effort, the kicker settled down and behaved himself. We have seen this used on with success kickers, and invariably The con ring securely to the top of the bridle, having it directy over the horse's poll; tie another ring the highest point of the rump. Get four inches back of of quarter or half-inch rope, each piece about 12 feet. long. Tie one end of each piece to the
bit-ring, one on each side, carry the ropes through the ring at the top of the bridle; run one
 each rope down and tii to the shaft or cross-bar
Be careful to have the ropes so tied that Be careful to have the ropes so tied that the horse
can move without danger of his movement


$\qquad$ Is soon as the head goes down and the rump the driver's eyes or domolushing off the heels in
somethine is enine to hanchen on the thit thatd
the ropes are properly attached, the horse has liam Montgomery, the Clydesdale kings of Scot- dell's services to the breed of Clydesdale horseg lie changed his mind before he gets his heels up very
high. Keep the ropes on him till the habit is high. Keep the

## Clydesdale Horse

Cror. Duncan McEachran, LL. D., F. R. C. V.S A legend has it that about 1715 the Duke of
Hamilton brought home with him from the Conti Hamilton brought home with him from the Conti
ment of Europe five big black Flemish horses which he gave to his tenants for the improvement

Unfortunately, no records of this have been disuracy of the legend. However it may be, we have the knowledge, in support of it, that to his enants in the upper wards of Lanarkshire are we indebted for the improvement in size and qualit these F'lemish importations, or to selection, prope mating and feeding by these men; to them belong the credit of
out Scotland.
From Lanarkshire, Clydesdales found their wa ro Ayrshire, Argyleshire, Dumfriesshire, Kirkcud ounties of the Lothians, Alerdeen and othe stock-drives into the North of England were, , in times of peace, regularly conducted, and, no
doubt, Clydesdales were brought south and sold to farmers they were mated with the old black cart-mares which had also been improved by European impor This, as stated by the late Sir Walter Gilbey lied to the development of the Shire horse as w know him to-day, a horse of more weight, heavier
but rounder bone, a truly magnificent draft horse for heavy work at a slow pace.
As was to be expected, many of the English breeders continued to use Clydesdale stallions, and at the present day. every spring, the agricultura Scotch in premiumginiving for the service of Scot
land's best horses, with the result of producing as good and as pure-bred large-sized Clydes as ar
to be found anywhere ever, adhere to the Shire horse, which has long been such. Besides these fomous hreed, and registered a find such noted sires as Farmer's Fancy (298). cluce, ath (1:53), from which were pro Blackleg ( 71 ), Ivanhoe ( 396 ). A hen was a schoolboy, on wed ly, savelling ther
wampbell.
was Roh Roy ( 714 ). This horse left rood stol and many of the best pedigrees go back to him. for producing prizewinning Clydes, and to-day as grod Clyde hlood exists there as in any part of
Scotland. True, owing to the influence of David McGibbon, iactor for the Duke of Argyle.
several of the Riddell-1) irew (Ilyde-Shire-cross stal. lions travelled there for a number of years, and meantime excluded frome Canadian registration and mportation. Notwithstanding this, many marus
of purest pedigree are there mated to the best of land sires, and many of the prizewinners in sooting the past seaton, and for ("y), served there cur a very promising young horse. High Degree,
if the best of his age in. Scot hand. has been
ured. $£ 100$ premium lueiner be 53 at time of service and है "hom the nar The carly sixties mark an cpoch in Clyd ence lrew visited the northern Finglish shires, et about tireeding a select some Shire fillies, and racted their attention in Figland, a a larger type
of horse, with more bone, and well-haired lers
 breeders, when Riddell and Drew, with the produc
of this cross. such horses ats Prince of Wales
larnlev. Banker.





##  <br> $\qquad$

 Ii asked what my views are as to the points an all in all hew his at amarkableassociates i
Clyde breeding of variance by these two factions, my auswer all, a trusty friend and thorough gentleman and, when judges judge by points, and give more value to in fashion when he. was arat horses which wang
the general conformation, size, weight, color and such men as samuel (lark, Peter mana
 ly so-and base their decisions on the essentive- shire and other parts of England to buy mares to strength, endurance, soundness of body and they of the younger erneration would perhaps par-
constitution, amals the highest commerrial value. Int then which were of the ntmost importance for worl
 and durability."
In the North Brit
ish Agriculturist, 7th ish Agriculturist, 7 th
October, 1891, is a
report of a Clydesdale report of a Clydesdale
Symposium, w here
nearly all the prominearly all the promi-
nent breeders of Clydes
in in Scotland met at
Professor actill's Profe
stock
(salbr

 anted by such horsse as lrince of Wales. Barnley others : and another fart ion workine ford a host
$\qquad$ Only




Ebruary 3, 1910
IHE FARMERS ADVOCATE
their thrift ine does than an a marnect degree
 work his land so that it returns the maximum possible for his labor and outlay. Lighter horses
than Clydes would not enable him so to work his land as to do this. I know of no other breed of horses which can compare with the Clyde for last
ng qualities and economy of keep. When careful ly bred, an unsound Clyde is a rarity; as a rule he is sound in his feet, has good hone, well-
muscled, is a good feeder, and always ready for muscled, is and thrives on such food and work a
his work, and
would kill most other breeds. He is to the vould kill most other breeds. He is to the
cotchman what the old French-Canadian horse was to the habitant experiences, extendin,
My professional
nearly half a century, gave me opportunities seeing and comparing all the known ireeds of horses in North America and Europe. I have ha
ior many years the professional charge of nost. of the large transportation stables in Montreal, where I made carcfui study as to which breeds were
most profitable, considering durability, cost of feed, and freedom irom disease, and I have no
hesitation in saying that no other breed will meet these rearirements as well as the Clyde.
I have been extensively engaged in Clydesdale breedine on a large scale (at one time 350 mares)
in Alberta, on the Walrond Ranch, for a quarte of a century, and my experience warrants me in
savine that, if selected from dams sound themall.... nd hasing no hereditary strains of un-
hereditary taint, Clydes can bire, also free from
hered sound, and such, barring accidents, will remain sound through
From a professional standpoint, too, 1 can say
hat Clydes, properly hept in healthy surroundines Wat Clydes, properly hept in healthy surroundings
will resist, more than any other breerl, the ordi
nary infectious diseases and, nary infectious diseases, and, as a rule, will re-
cover quicker and more completely when attacked period, will mature and do light work as soon as hreed is easier to break as a matter of act
most property handled ciyde colts will take th
marm work as a pointer dog or a setter will pointing or setting.
In the show-ring. no other breed of hea
horses can make suck an imposing displav, a fat that is being demonstrated vear by year, hy 1 Vew York show in Matison Square Garden, and
the Olympic, in Fingland. the olympic, in lingland I think Clydesd
breeders are much indehted to the Nelson Mor Company for what they have done in showing the time has come when Clyde breeders must do
more to kepp the breed to the front or they will suffer a temporary backset, so much is being done
to push other breeds. But history repeats jtself I have seen so mani attrmpts to push certain
breeds of animals to the forefront. The Storthorn, the Itereford. the Folled Angus, the Gallo Ired, Standard-bred, Itackne, Myde. Thire and
the Percheron, all had thoir inniness hut then Shorthorn bull in catile. the thoroughbred in
light horses, and the Clude in draft horses an them all. They produce an in inprovement, no matwhereas my obsercations lead me to believe that My advice, hased on one any ot her hreeds. celect the, to the farmer. stas with the Clyde, but dam to hreed from: for
like every hother breed. thev can be degenerated rrors in selfection amd mating. and vegery readil
n- neglect and mistumagement, Don't breed fro
he nediuree ond. dividual excellence should be sought for




 nake him an oflicicent horse when he reacheses ma-
$\qquad$
Judging Sheep in 1909.
 is a good time to look into what the show-yard in livestock circles. The types selected as being nearest to correctly high ideals which progressive hreeders ever and always strive to reach up to, many a show. Have the selections at the leading shows been
nearly always the proper ones; have the judges heen at all times capable of doing the work underaken by them? are questions pregnant with the
possibilities of the future Some of the great fairs-Toronto, for instance - lassed by without a heard murmur or any triticism of the placings in the ring. At the In-
in Chicago, the atmosphere was diferent. Considerable electrical force was kept in check on the part of exhibitors by mere will-power,
governed by great patience. Mutterings of disapproval were frequent, and why? Simply becanse, at least in one class, that in which the uriter was specially interested, the gentleman dongy wo wh was not big enough for the job,'
Once more it was clearly demonstrated that man is capable of judging horses at one great exhinition, cattle at another, sheep at a third, and the best in the land is out in full force. 'Twas more pity than blame for the gentleman who undertook so great a task. That man has
yet to be born, and will not he seen in a thousand yet to be born, and will not be seen in a thousand
years, who can, with any near approach to corof stock, plien if ho were many different classes the several classes, let alone being a comparatively lisinterested handler of. or speculator in, such di-
dersified lines
 al, it is high time for a change, as politicians this is a hluff. When a certain decision was made of the association stepped up to the writer to whisper, "The professors will put the ribbons on college "xhibits wherever they can." The award not a breeder present but would have placed it differently. No one doubted the honesty of purpose nor the
desire of the awarder to do right but the feeling was prevalent that exhibitors were wrongfully kept out of their just rights. It is discouraging, when breeders spend a whole to find their exhibits robbed of their just contest, sheer want of knowledge and skill.
the capacity of exhibitors of years' experience, a wards is mentally judge at work in placing through with the third section. By that time it believery seen whether he is a master or a make every section we see a whole class of rams in every section gone over, without a single examina-
tion of scrotum or head, where disqualiyng fects are to be found. we cannot but think there de a lack of thoroughness which cannot be justified. If our live-stock interests are to be helped and
developed along right lines by show-hard developed along right lines by show-yard compe
titions, we must have the most practical the land select the winners at our Toronto and International, greatest of shows, so as to educate us by profitable practice, and not by theory, good chough in its place, but never the same founda-
tion of successful results.

## Lambing Time in England.

Now that the lam
will not be out lambing season is coming on, had in the winter of 1885 . As a youth I I always willing t learn, and alway
willing to earn iew shillings. was also necessary
for me to earn some thing, as twas one teen. I was given work with the teansters or to help the
shepherds during the shepherds during the
lambing season. chose the latter, ing a born-lover o
sheep and horses As usual, our floch Southdowns, abou season commence uary. The sheep were put on a 17 cre field of grey.
stone turnips, with a grass pasture fiek on the north side. $\begin{array}{ll}\text { with a } & \text { fir, fence } \\ \text { around. } & \text { The sheep } \\ \text { ar }\end{array}$ vere hurdled in a losing each day, en nuch about as hey would clear ap
in two hours before in two hours before
hoon. The team-
ter brought ster brought to the ster brought to the
 their productions to be well versed in their busi- fach ewe and her lanibs were put in pens which
ness, who are able and should be the judges in were made in long rows with hurdles covered with tural college professors have antinent. Agricul- traw ; one length of hurdle would make 1 wo proud indeed we are of the many who are occupy weat $10 \times 5$, with extra hurdles to put on top if ing positions of trust because of merit both at season was very stormy. I can well remember the in Canada, and possibly two in the United States, round the ewes, at intervals of about every two their own special life-work, than undertaking the hours, or sometimes of half hours, according to placing of awards in sheep classes, in such a way what symptoms were noticed in the flock. There as to not increase but largely lessen, their stand wer on somepherds and myself to do night work. aye, of progress in live-stock husbandry, so much Were had what the farimers term a shepherd's hut, chends on points, and detailed characteristics. drawn on four wheels to any part of the field, s
ohich only heen, thoughtiul breeders, giving prac- it would be close to the fold. Our furniture contirall, their whole time and best thought, can sisted of two drop-heds, a small place for food, master, so far as possible, by patient study and and a few shelves to plut the shepherd's necessaries
practical work, which no promessor can piretond in, and one coal stove. The necessarles were compractical work. Which no proiwsor can protond in, and one coal stove. The necessarles were com-
to necomplish. posed of castor oil, whiskey, a patent drench,
fresh supply of cow's milk, and a supply of blue stone and ointmont ior dressing. The whiske
was nsed as a stinulant. mixed with cow's mill

THE FARMER＇S ADVOCATE．
when ewes were a lons time giving birth to $t w i t y$
or tripiets．When such stimulants are pivent must be given with cauthion，as some some given，the
mot readily take it，and a drop might not readily take it，and a drop mighe to the wrong
way and do injury ．soruelimes we lost a ewe
 watched for single lambs coming，and would rub
the new arrival on the orphan before leting the
ewe get ewe get up．In must case the ewo would mother
the orphan．If the ewe refused would tie her head down to hurdle until she would own it．When a ewe lost a lamb，we would
skin it，and put the skin over another lamb，and skin it，and put the skin over another lamb，and
give it to the ewe e to mother．The shepherds do
all in their power to rnise tor interest than many un owner，as the shepherd gets a premium on all lambs raised．We had a great
many ewes．especially shearlings，which could not
deliver theie deliver theer rempecins．The shepherd told me this
was caused by the Was caused by the sheep feeding off a quantity of
cabbage，which were planted where turnity cabbage，which were planted where turnips had
tnissed，and should have been fed off in the fall． I learnt a lesson which heen fed off in the fall．
Io been very useful to me as a fock－owner．Some eves would not de
liver their lambs，and it in to seen，in extreme cases，to save the ewe，the hhepherd use the knife other methods failed．I was rather timid the first lesson I had．Being young，my hand was smatl，
and I was instructed by the shepherd．Some men and I was instructed by the shepherd．Some men
would not use the knife，but every ewe saved was a $£$ to the farmer．The shepherd was always watchful that a strong disiniectant was used on
hands，and also some pure oil or grease，when as hands，and also some pure oil or grease，when as－
sisting ewes to lamb
nails，and and always use clean hand trand trim the finger fingers into passage with finger nails back to the lamb，then turn the fingers round till object is grasped；se that legs and head are in a proper
position，and be as gentle as possible in getting lamb away，lest injury be done．Fossible in getting
lash the pas－
lame and withe sage and womb out with disinfectant．In some
cases the lamb will wome hind feet． ing is prolonged in these cases，the lamb usually
dirs dirs，as the cord gets pressed，and stops circulp－
tion．It is best，in such case，to help the ewe． and bring the lamb away hind feet first
Peel Co．，Ont．
OLD COUNTRY JOE

Details Re Pig－feeding Account
 Alor one year，beginning October 1st，1909．，Mr． lails．He gives the expenditure land receipts which are all right，so far as they go e He does
not，however，give the number of pigs he had，nor their value，on October 1st，1908，or their rumber and value a year later，as he should have．Surely
there was an increase in the value of his i，ireeding sows，at least．Nor does he state at what age
he killed his pigs，or how old the young pig and when sold，nor the price per pair received for them． Now，Mr．Colpitts，kindly let us know how
many pigs you had on october 1st，1908，ond also gear hater estimated value on that date and one add it to the pronts，and if a decrease，why，sub－
tract it，and tract it，and let us get at the facts of he mat－
ter．And say what breed or type they were whether you fed the turnips rawpe they were，and
now，berore closing，when your or cored．And maw bet price closing tor then your pigs have paid the
the the and roots raised on
the farm nand tol
 think，a very good thing if we can get more for
our ranain and roots and potatoes on our farms
than we can set for the the market．We not only save the labor and
pense of shipping the raw produc，but build
the fertility of our farms Mr．Edit or，for sour space，mend wishing yo E．Ins．In answer ro wour P．E．I，forrespondent




## lacked $\$ 3.00$ of doing so，and the profits would modities of the producer to the consumer be smaller by that much，

 year agoo varnmers all round this last fall than
F2．00 each，whine in tor young pigs

 cioned in the account．I kept the twelve early
pigs，killing 11 of them I February 10 h， 1909 ，and
hhe the other about a month later．They brought
slightly over $\$ 9$ per cut．as per sccond and thit entry pork．，per cwt．，as per second and third
eight young the spring of 1909 we sold sight young pigs at se each．Alter sows were
he，with five we castrated the yount boar，wand
her ne with ifie spring pigs，made the last＂pork＂
mentioned in
hog account．The dressed weight of the Perraps I It should say sigs ave that the date of this
killing was october 6 th and we cound Killing was october bith，and we counted that as
October 1 st in making up account．The two young sows developed into very fine animals， not best we have ever had，but so far they have
not itinguished themselves as pigraisers，only bringing，both fall and spring，thirteen pigs to
salable age．If they donprido thetter then sable age．If they don＇t do better than that in
the days to come，they won＇t live to be very ald Our days to come the won＇t live to be very old．
Oredominating mixed breeding，Yorkshire blood iredominating：
We boiled
We boiled our turnips，first running then
through the pulper，as thus they conked through the pulper，as thus they cooked more
quickly
qige serm
much better when cooked，relish the the turnips very much better when cooked，still I doubt if we ever
do so again，as it adds greatly to the work．We mixed the grain fed along with the turnips，cov－
ered up close，and so had warm feed practically the time．Probably，by this method，pigs call be pushed a little faster than with raw，cold feed
but I doubt if the＂Game is worth This winter we are feeding eight voung tile． we have no turnips for tering eight young pigs，and
along on the they must scrub along on middlings and skimm milk hey must seruu
be able to compare the srofits of thill the be able to compare the profits of the e two systems
of feeding．at One thing we have learned in the
past is that we must past is that we must go munh more carefully the
the absence of roots，as anything like forcing will promptly result in rheuything like forcing
fortable quarters and plontis－arthritis，con fortable quarters and plenty of exercise being no
sure preventive，as we know by sad experionce
 Thanking E．R．Y．for his interest，and
Farmer＇s Advocate，＂for unfaililing ourtesy
Albert Co，N．B．

Clover Leaves as Pig Feed Having noted in T．The Farmer＇s Advocate
difierent methods of feeding pirs seen anything about feeding pigs．I have never yet
nant sows． that fall off the clover hach when iaving the leaves
from the mow．In this way you save is put down I thake about a pailful of pulped mangels，the
desired amp cosver lamount of pround grain，and a pailful of them in a box，mix well to
gether，and leave sititing or get her，and leave siting over night．
int then ，three parts，one for each meal
some You can put solne butternilk，whey or water on it it they will
not cat it dry，but I $I$ have had no trouble in wet．
ting that In this way you have a more balanced ration


THE FARM．

lera or the future is the task of bringing topetb－
the producer and consumer on a proper the producer and consumer on a proper basisther But
as every producer is also a consumer－oh． let us get off our high horse right here．This is most sedate plug cannot travel far on that rone without getting his tail over the line，kicking over
the traces，and winding up everything in fusion．

$$
\begin{aligned}
& \text { "The market" of my boyhood was the place } \\
& \text { to which my father went once a year with a lood } \\
& \text { of dressed hogs. He leit home beiore daylighd } \\
& \text { and I can still hear in fancy the creaking of the }
\end{aligned}
$$ runners on the frosty snow，while I snugge of the in bed，and wondered what he would bring hown

for me to－morrow night．
Going to market was in fro－days trip，and was never undertaken excep of regret to me that，before 1 grew big enough to method of marketing changed on the trip，the gan to handle dressed hogs，drovers began to shi a memory，and the romance oi the market became Man they make such ginger－snaps well．I don＇t I was allways allowed to sit up to in thore days． oming，and spent most of the time at the corner the tinkling sleigh－bells．＇Then，what a feast ther back－log the old open fireplace，with its huge amid of how the hogs were sold was recounted were so eager that they came to the thables and market．On the market there was taken to the bidding，and sometimes the man was usually lively en cents per hundred more than the one who gave changed，also．From what I hear now，buyers have according to recent accounts．There may hat lot， a dozen of them on the market，but youl be hall sit on the to bid more than another．You can end of your nose is blue but no shiver until the a much better offer than you got on your arrival．
I wonder why After the practice of going to market stopped，
one didn＇t hear much about markets．＇Taking
things to the nearest town to sell didn＇t seem to
be marketing．You just tool your stuf to town ＂while the roads kept，＂and accepted whatever
was omered．In the old days，a cautious shopper could get some excitement beating down the prices After selling your produce for what is offered， want to buy，price that is asked for what you
about as cimpe it alone．This is just have a fairly well－founded suspicion that you didnn＇t much for what you hourht Here is the place for taking thought Crodusider now the trusts．If they control the of the field in which they labor，so that they can
force the price they producers to sell to them at whatever and take every profit that can be made until the have made it derivered to the consumer．That they ness．Now，in a just condition is in the busi－ producer would get all the profits that intervene
between him and the consumer，or the consumer
would be porled up between him and the producer．But now
we are getting technical and heave
we aro as get back to everyday life．
Have you ever noticed a proud and happy farm－ er who has just sold his live hogs for some farm－
fancy price as $\$ 7.50$ or $\$ 7.75$ per hundred？Feel－
$\qquad$






#  

\title{

}
is hacon？As a matter of fact，it has occurred
to some，and they have operative hacon－curing establishments．They had
before them the examples of lon Stahlishments have heen，whecessfully conducted for
many vears．In coanada，however se the


en, and conecun the storehouse for nitro









that they came to anywhere from $\$ 5$ to $\$ 15$ a barrel, according to the time of the vear. is certainly something wrong here." course, there was something wrong, but the wrong is being rapidly righted. In Ontario there are already the wat market fruit to the best advan-fruit-grow their shareholders. But they are doing
tage for the tage for that. They are raising the standar 1 s
more than that
of fruit-growing, establishing reputations for good of fruit-growing, establishes repking, and, "y the
brands, insisting on honest pack brands, insisting ondizations, compelling fair treat-
power of their organization companies and others power from transportation companies anil others
ment
with whom they are obliged to deal. They get with whom they are obliged to deal. They get
all the natural profit on their fruit until it has all the natural pront one the consumer,
been delivered to the consumer. The consurner brand of fruit been detiver hand, gets a better brand of fruit,
on the other
at a reasonable price. Everybody is happy exat a reasonable price. Everyood is happy ex
cept the commission man, and who is he, anyhow,
that his feelings should be considered He is part that his feechinery of that mysterious institution
of the macke," which all sensible people are trying
"the market, to get rid of.
Cheesemaking, on a businesslike scale, began
as a co-operative work, but now can be described as as as seni-co-operative. Many of the factories
only ane passed into private hands, but the original
haver have passed into private hands, but the original
system is somewhat closely adhered to, so that system is
the result in most cases is satisfactory. The same is true of the creamery business.
While many books and numberless articles have been written about the success of co-operative
stores and co-operative associations in the older countries of the world, Canada must solve her own problems. The conditions are all different, and
the solution of the difficulty will be different. The the solution of the already been made is cheering, proges there are many parts of the country where
thounh
people are so market-burdened that they may well people are so market-burdened that drunk our water for money. Our wood is sold to us." As I
have been buying water by the tank load, and wood by the cord, this Scripture appeals to me
with moving force. I have observed that my
neighbors sell their produce for what they are neighbors sell their produce for what they are
ofered, and pay what they are asked for what
they buy. Looks like a good field for co-operathey buy. Looks like a good field for co-opera-
tive work. I wonder who'll make a start.
The Valuation of Barnyard Manure The editor of "The Farmer's Advocate" has
asked me to take a part in what ought to prove a very useful discussion on the value of barnyard
manure to the Canadian farmer. I accept the manure to the Canadian farmer. I accept the
invitation with pleasure, and propose to utilize the space at my disposal to present a phase of
this subject which has not hitherto received the views I purpose to bring forward make it impossible to give a
definite answer to the question, What is the value definite answer to the question, What is the value
in dollars and cents of a ton of manure? It from the analytical data the monetary value of the essential elements of plant food-nitrogen, phosphoric acid and potash-in a ton of any particular
sample of manure assigning to these constituents their price per pound in commercial fertilizers, or,
indeed, any other values that might be determined on. And this is what is usually done, but in so
doing. the half would not be told : the figures so arrived at would give but a very inadequate idea
of the value of the improvement that might result to many, indeed to most, soils from its applicabe shown, is for the most part due to the humusand to which no pecuniary value can be assigned. the value of humus as a soil con-

We have been learning in recent years that
he distinguishing feature of our productive soils, hether clays or sands, is an abundance of semi-
commposed vegetable matter, or, as the chemist
ts it, a high humus content. We further find gen, and consequently that, in the majority
cases, humus-orming a material is one that is sure to be
ich in nitrogen. And. lastly, that of all the important elements of plant food, nitrogen is the
dominant it is is the constituent, above all others,
that, in nine casps out of ten, according to our It will not he possible in this article to discuss decomposer oreanic matter makes a soil suitable
and comfortatle for the growth of farm crops how acts thesically, in improving the texture
or tilth of a soil makine it mellow, and capable
of the retention of moisture, air and warmth minroorganisme thrnishing the food for the soit
matere and render available
material otharwion valuelecs to tho higher crops. ash that can hen ascimiated by our farm plants
two phases of this CONTINUFD CROPPING MEANS LOSS OF First, there is the fact that continued croppin leave little residue, as, for instance, the cereals leads inevitably to reduced yields, and this falling-
off is not merely due to the decrease in plant-foo constituents removed in the cropping, but in very large measure to the soil becoming unfavor
able for root extension and plant growth, and thi unsuitable condition is due to loss of humus When our wheat yields in the Northwest begin to cause will be the reduced humus content of the coil, rather than impoverishment of the soil in been withdrawn by the wheat plant during it CHEMICAI. FERTILIZERS NOT A SUBSTITUTE If the latter were the only cause of decreasing yields, then the sole use of chemical fertilizers the maintenance of productiveness ; but while science has demonstrated that these materials are
most valuable for furnishing available plant food, most valuable for furnishing available plant food,
practice has enually and cmphatically shown that
their their employment is not sufficient in itself to ecoof our soils their use for any length of time can
only he profitably followed when accompanied a periodic return of organic matter, either in the form of manure, or in the growth and turning MANJIRE AS A SOURCE OF HUMUS. various forms of organic matter available to the


Berkshire Barrow
Winner of championship as best hog, any breed, at Smithfiel
1909 . Shown by H. R. H. Prince Christian
endering it friable and in mellowing the soi aerated, moist, warm-in a word, a favorableand rootlets may find an and in which in search of food. No pecuniary value can be placed on such beneficial properties-all due, it may be said nure furnishes.
of the a word, good tilth-that favorable condition sociated withat every practical farmer knows is as on a right proportion of sand and claydent merely on judicious culture, but very largely on the pres in ere organic matter, the chief source of which manure well-regulated farm, must be barnyar

MANURE AS A SOIL-INOCULATOR.
Soil must not be regarded as so much iner the microscope reveals that every fertile loam in the busy home of countless myriads of minute or ganismis (bacteria, for the most part), feeding and life-functions the germs are breaking down the complex compounds-the organic residues arising from past generations of plants and animals, and presenting their elements afresh in forms suitabl thus the cycle of life is maintained. The role olayed by these organisms is a varied one, but wo facts may here suffice to bring home the im er, that the nitrogen assimilated by crops, and subsequently converted into their tissues, can only be acquired through the agency of the soil organ sms: and that it is entirely due to the activities
of these organisms that the soil does not rapidly of these orfanisms that the soil does not rapidly
become unfavorable, indeed unfit. for the growth of vegetation. Something of the significance of on-the relation of soil
micro-organisms to agri-micro-organisms to agri-
culture-will be apparent on learning that in dry
sandy, barren soils, destisandy, barren soils, desti-
tute, or practicaliy so, tute, or practically so,
of humus (such as those ound in desert areas), this germ-life may be al-
most, if not altogether absent; if secondly, that, in ordinary arable loams this microscopic 11 fe is fairly proportional
the amount and kind humus present-the richer the soil in this conthe humus in nitrogen, the greater the number of the organisms, provided ond moitions of warmth able : and lastly that the more abundant the germ life of the soin, the be expected It is thery fore, evident that the relationship bet ween humus. is a direct and distinct
by barnyard manure is undoubtedly the most valu
aisle, not merely from the fact that this manurial organic matter is in such a physical condition as oo allow it to rapidly undergo further change and become intimately incorporated with the soil, not
merely because it contains certain amounts of nimerely because it contains certain amounts of ni-
trogen, phosphoric acid and potash, but also betrogen, phosphoric acid and potash, but also be-
cause there is associated with it a large number of those germs-micro-organisms-which, multiply-
ing and feeding on it, produce humus, and prepare its associated plant food for the nutrition From these considerations, it is evident that this subiect of the value of manure may be dis-
cussed from three points of view-the physical, the cussed from three points of view-the physical, the
hinlogical, and the chemical. Unfortunately, it is
only the last which permits of -aluation influence of mantire on different As to its physical effect, let us take as an ilholding capacity of soils, especially light, sandy
loams. In seasons of insufficient or irregular rainfall, an application made the year previous, of roughly snealine, is organic matter), may make all the diference bet ween failure and success, and rather from the means afforded the crop of approcontent of the soil, we have a property of manure
that cannot be anpraised in dollars and cents, but ertainl- far cxaceding. in many seasons, and on Thosrhoric acid and potash.
Or amain. consider the effect of manure on
lipave nlastic and refractor clows

The tracteriology of manure-that is, the history nd interesting ts germ life-is indeed a complex sible to discuss at all fully at the close of this rticle. It must therefore suffice to point out that barnyard manure is extremely rich in bac-
terial life, and that the general result of this life is for the making available of result of this life plant food. This high bacterial content arises, in the first place, from the aluundance of these organisms from the fact that manure consists, very largendy of organic matter, which is particularly suitable, by reason of its composition and moist condition, to
the growth and rapid development the growth and rapid development of these organ-
isms. It is thus that a small amount of manure may be able to inoculate a comparatively large area, and stimulate activities that result in the more rapid and larger liberation of plant food Trom the more or less locked-up stores in the soil.
There is very satisfactory evidence to show that harnyard manure constitutes not only the chie? but the most valuable means of soil inoculation. We have thus seen that germ life in the soil is
necessary for productiveness, but who shall say what price to affix to a ton of manure for its property of introducing and fostering this life? In this article we have not touched upon what
might be termed the purely chemical phases of the question-the composition of the different manures as regards the elements of plant food. the iactors the insses that ensue under various systems of
preservation. These are all-important topics. unon which the farmer should be informed, but such information annears more or less frequently
in our acricultural press. It was thonght that.
in the mpesentation of the viows we havehere con
THE FARMER'S ADVOCATE
sidered, an important but often-overlooked phas
of the question would be brought of our readers. $\quad \begin{aligned} & \text { FRANK T. SHUTT. } \\ & \text { Chemist Dominion Exp. Farms. }\end{aligned}$

Ensilage Corn on Ppince Edward Island.

## Editor ". The Farmer's Advoca

I would like to give my experience in growing
corn for dairying purposes in Prince Edward Is land. My choice of land is sandy loam, in which Prince Edward Island abounds. I prefer clover
sod, on which about thirty loads of stable manure per acre has been evenly spread. Plow in the
spring as early as in good condition, with re peated cultivation to keep down weeds and haster
rotting of sod, until about the first as soon as the weather becomes warm enough $t$ sow. It should be planted in rows about three
feet apart, and three or four inches apart in the jeet ap
rows.
The
have not a corn-planter) is to mark it off with log nine inches through, with three pegs the proper
distance for the rows, and a driving the first peg in the last mark made, dropng it by hand, and giving it a run with the light
harrows lengthwise, following it with roller. In about ten or fifteen days, if it comes up closer harrows crosswise the drills, to keep down weeds
and hasten the growth. As soon as the corn is and hasten the growth. As soon as the corn is
high enough to use cultivator, it should be run through, and also hand-hoed, if any weeds should appear. The cultivator should be run through it
at least once a week as long as possible without at least once a week as long as possible without
breaking down the stalk of corn. The best varibreaking down the stalk of corn. The best var
ety of seed for our climate is the Longfellow, an if seed can be procured from a field on the the Island
it is much better goo, and planted it last year my seed two years lected seed matured at least ten days earlier, with iully as heavy a yield. I had no trouble to pro
cure all the seed I wanted last yon for in this way will be ready to Corn cared ror in this way will be ready to put into silo
nbout the last days of September, with an average
vield yield of 15 tons per acre. This has been my ex-
perience in growing perience in growing corn.
Prince Co., P. E. I.

## Draining and Fencing

Editor "'The Farnuer's Advocate ":
The order of the evening at the last meeting
of the Brant Townshin Farg cussion on important improvers' Club was a dis made on the farm. Draining and fencing were thoroughly discussed, but, unfortunately, a important improvement, that of beautifying
farm, was not touched on farm, was not touched on. In these days, the farmer's sons are deserting the farms for city
life, the subject of making farm life more pleasant
is a very important is a very important one.
The subject of draining out, and can be summed was as fotty well threshed should drain: 1. Because
it allows us to get it allows us to get on land carlior in spring
3. Because drained land is got into shape for
ing ing more easily than undrained. weeds that grow on marshy land won't grow on
drained land. 5 . Because it insures an even crop.
6. Because it makes unproductive drain How to drain: First, know which way the
water naturally runs. This can he nscornind water naturally runs. This can be ascertained
spring, or after a heavy rain. If this cannot done the level should be found with a spirit level he ditch a plow will save a lot of work. After which the mouldboard has been removed, fasten a long whiff
and loosened
determine th
room, and make a good breeding place for mice,
bugs and insects, and for the raising of weed
seeds. old rails make good firewood, and in
that way help to pay for a good wire fence. Rail fences cause heavy snowdrifts, and thus hinder up-to-date fence, of course, is the wire fence, either Wire fences give the farmer at least 3 ft. more of fences the strain is on the end posts, so they posts between need not be very big, about 5 -inch
top is large enough, and set. abut 25 to 30 ft top is large enough, and set about 25 to 30 ft .
apart. Upright wooden stays should be fastened to coil fences. This prevents cattle from pushing through them, and stiffens the fence otherwise.
Bruce $C$.

## Economy of Labor in Threshing.

 Find enclosed $\$ 1.50$, for which you will retainmy name on your subscribers' list for another vear, and also these lithes for publication, relative
to a new method of threshing that I have prac-
ticed for this last year, and which I have sent to you, hoping that they, may be of some interest or Farmer's Advocate," and, in my reapinion, its "The equal
'as an agticultural Tivelve years ago, when a boy, I first began to
attend my neightors' threching. The custom and is to-day, in this section, for farmers to trade
in the work with their neinh (1on, I folind that for years the heip, required to equal to the work of one man for from forty to
fifty days. Of course, in the last few y years, ow-
ing to the adyent and exclucive thresher in this section, this time was considerably
reduced; yet, however, comparing the work uculy expended in threshing of the grain (not to say of labor practiced by large manufacturing concerns, and made possible by the use of the most-
improved machinery, there still appeared to me on be far too much unnecessary work about the
iob, and ten years ago I conceived the idea, and
brought it into successful harvest, that it it would be possul
hassin, and that



 me diferent makes of threshnins tuacelinety thit
 and grain-blower, and seli-feeder, the cutting-boy atra, and finally decided that I could make the
arangement in barn that I wanted, and thresh
the grain as it. was drawn from the fold So purchased a sellarator with the field And attachment and grain-hlower.
We set this machine near conter our thresh-floor. so that teams could drive in in of placed cedar pitches, 25 from load into freder. II

```Topse of them were tieding Thesese pole which the
```as at the rear of sempratert: andi tho pitmant

moving it out of its tracks, and "1
having to tramp in straw at ahaving to tramp in straw at all. \({ }^{\text {ant a man }}\)
doubt, would be impossible without the cutting
box, as long straw bulks up fast.ticular liking, but of this way of threshing pardelight to me, looking at the machinery doand atwork. Both engine and separator reinained the
work
tionary. in their rectinghonary in their respective places, rearly for worleuring the harvest season. There is for thetom work, in which there is sometimes three cusfour sets in a day, with the usual changing ordifferent kinds of grain. By this new method, ar
man can be ready for every ioad as ithave ample time to look after whole outfit, oil itLet it not be understood that I would recom-mend the purchase of a large outfit to threch in-
this way merely the crop grown on an ordinatconditions are such farm, for that mat it would not, unless the thetorily, and the operator be possessed of the tisfac.
chanical ability necessary to the successful
home by this method, we have thresheshing atadvantareod in the usual way, and where the thements, the number of hands labor-saving attach-that the most grain we have yet threshed way
this machine ineight men, hands day has been threshed with onlyThis subject, and taken up considerable of yonhardest and most disty work on the considered thelimns of "The Farmer's Advocate" to the col-lieved to be to the farmer's interest. I have beenhow the work might he made might be led to studyince who do their farmers throughout the Proveance it so that who might, with a little work, ark
\(\qquad\)
\(\qquad\)

\section*{THE DAIRY.}

Cheese-factory Conditions and Ppactices in Western Ontapio ven, um. To keep the motit people prefer

\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\) not improving become filthy and ill-smelling of these conditions must have an uplifting

\author{
furkation and doing the work pry adopting
}
work properly that
\(\qquad\)

\title{
teurized the whey last
whey at the factory,
}
\(\qquad\)
\(\qquad\)

\section*{THE FARMER'S ADVOCATE}

\section*{A Problem in Fertility.} Edieor "The Farmer's Advocate
I would like to see a little discussion in your
valuable paper in regard to keeping up the fertilit of the farm. I am going to outline our methods, and would like to see them criticised. We have 85 acres of land, with fully twelve acres of waste; practice a short rotation; seed all our grain to
clover; pasture one year, and plow for corn roots, and sell nothing but milk, keeping all the milk cows we can feed on the place, and a year all told, about thirty head of catilled. We have lime we mike twenty. We sent to the condensor
last year about 131.850 pounds mike with our last year about 131,850 pounds milk, With our
revenue we are fairly well satisisted, but do not seem to be keeping the place up as well as we
would like.
We grow no whent and are ver short of straw, but buy sawdust for bedding, aryd
pry to save all liquid froun the stables. Now for rry to save all liquid from the stables. Now for
a few questions, but should say, trst, that we
draw
 the acre, but figure on about 3 , vue busiels oo four
acres. We generally have pretty good corn,
thoush it though it was poor last year. Grain was good, compared to the crops on neighboring farums. We
have eight acres of allialfa, wnich, 1 tnink, goes land that could be called sour, but deal that is badly in need of draining
smail po you think it would pay us to grow lizers, when we would have to buy a drill at cost. of one hundred dollars?
3 . Could we do ass well
root crops, and thus save the cost of a drill our our inquire us to fault him for that, though far be it from because he is doing well, that he connot sould infier
and the auestions asked signify a conter termination to make the most of all present portunitios, and then search out more. The ro
tation is an excellent proved is an excellent one, and would not be im
prom
though this might of pront py including wheat to reduce the stock and labor of dairying. Wh figure that D.W. W. must be deriving from his
rather small farrin somewhere about thiteen hun dred dollars' worth of milk a year. 1 he sale this, however, is removing amnually alout on
hundred and thirty-six dollins worth oi plant food from the soil, calculating on a very on perate
basis of valuation. To speciin, it whll 698.8 pounds of nitrogen, which, at the low com-
mercial price of 16 cents a pound, would be worth \({ }_{8}^{\text {mercial }}\) price of \(11.80 ; 250.51\) pounds phosphoric acide worth
 purchase of feed should be annually restoring a,
part of this, while the clover and alfalifa is, of
should be nitrogen supply, by entrapping copious quantities
of then of this element from the atmosphere. The annual
cost of potash and phosishoric acid is not thus compensated, but, as there are large announts of
these elements in the soil, which the nually bringing up, and a considerable proportion
of which is returned to the soit stubble, roots and manure, the supply of available
fortility should be, and doultuess is, increasing from year to year. The excessively wet sppring, and very dry summer and fall, are doubtless re-
sponsible for unsatisfactory returns last tel sponsinte for unsatistactory returns last year, par-
ticularly as the land is in need of drainalee. This
hrints brings us to the point that until one has his soil
thorouglily drained, it is usually unvise to expent money for commercial fertilizers; first, because the drained soil, and secondly because the money al ing than in purchasing fertilizers. . quantities of mink are arnually somm, which larye
turn of by-products, will wome to need whr no re with the mineral ellements of fertility, legumes be Possibly even now he purchase of such hertilizer
would bee profitable, though experiment should be made before investing heavily, stint, shoutthe sted
allove, we would strongly advise the ecemomet




Pasteupizing Cream to Overcome Churning Difficulty.
A Brant County farmer's wife writes: "Hav-
ing noticed a question about a churning difficulty
in a recent issue in a recent issue, would like to give a simple
and sure remedy to those having trouble in getting butter. Heat the milk to scalding point before putting through separator, or in cans, when cans
are used. Proceed as usual, and you will have no are used. Proceed as usual, and you will have no of others who I know.
[Note.-This idea of "scalding" the cream is simply an adaptation of the principle that pas teurizing renders cream rather easier to churn
Under creanery conditions, where pasteurizing is practiced, the cream is heated to 180 degrees, grees, and a pure-culture starter added 50 de farm-dairy conditions, where such a starter is probably not available, and the cream is cooled down gradually to, say, 70 or 80 degrees, chance
being depended upon through development of lactic-acid hacteria results might not always be entirely satisfactory in the try, though we would recommend the use of a cream both to ascertain the temperature of the

\section*{GARDEN ORCHARD.}

\section*{Small Orchards, Big Returns.} We have received from Jas. E. Johnson, Man-
ager of the Norfolk Fruit-growers, Association more detailed statement than previously given of their operations for 1909. The Association graded after deducting expenses of loading, telegrams and postage: Class One-No. 1 Spies, Kings, Spitzen-
burgs, Snows, etc., 5,603 harrels, Class two-No. 1 Thaldwins, Ihussets, Gren.30 Blenheims, Cranberry Pippins, and some others fall varieties, and Class \(3-\) No. 1 odd and \(\$ 2.65\). Class four-No. 2 's of varieties in closse One and two, 4,718 barrels, at \(\$ 2.35\) a and class barrels, at \(\$ 2.00\). Total, 19,314 barrels. He also encloses account salos of two small o the farmers', orchards may be, they are well worth the farmer
caring for
The ond
The one reproduced shows account form as filled up and settled for, and is thus given, because it The net returns of \(\$ 356.94\), not including culls large. The trees yie
each on the average. The other account, that of Fr over five barrele that of Frank Shear orchard in 15 of an orchard of \(1 \frac{1}{2}\) acres. . Thit barrels, and in 19019, 220 barrels; in 1908 , This Class one-31 barrels, \(\$ 102.30 ;\) class two-104
barrels, \(\$ 312.00 ;\) class three- 18 ,arrels, class four-66 barrels, \(\$ 155.10\); class five -1 bar. ceipts, \(\$ 689.66\) Expense account. Total re. terial, \(\$ 16.22\); 220 barrels, at 41 cents, \(\$ 90\) mas 220 barrels, commission, J. E. Johnson, Manager 20 cents per barrel, \(\$ 44.00\). Net proceeds, \(\$ 539.24\),
The above figures are very instructive ing, not an average, but what is possible in thow.

\section*{A 75-pound Bag for Potatoes} As the question of a standa
of potatoes will come up at of potatoes will come up at the weight for a bag
Parliament in having 75 pounds to constitutery active part weight for a bag of potatues. The Province of
Quebec, I believe, has a standlard ore but I think this is the only Province that pounds, have their for potatoes. Cities and towns stand law if taken before a nipher these would
understaw understand that, in Toronto, a magistrate's as I
viction under local by-law was What has brought me to recently quashed. pounds be the legal standard is suggest that 75 sugar refineries have been using canvas since the to a nicety, the fixing of that pounds of potatoes would be to all parties handling the legal weight boon. I presume, in this city, sou could buy
thousands think how that would save the farmer's coust bags. The number of sugar hags available is likely to increase, as the use of bags in place of large quantity of salt is also being handled in bags.
When we come to think of the many handlings pizatoes get, I think the wisdum of reducing the are filled in the field, carried into the cellar, filled
up again, and sold to some merchont up again, and sold to some merchant, emptied inmerchant carries them up the steps again. The takes them to the consumer, and the delivery man 75 pounds is quite heavy enough colar. Surely many times, and in such paths as there are in so farm, cellars. When \(T\) was a young boy on the old men that attended to the potatoes (I might

Norfolk Fruit Growers' Association.
For Account of \(\mathcal{E}\) Cermatimg
Forestrille ca

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Acconnt Sales
SIMCOE, ONT.
Acconnt Sales

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\section*{172}

THE FARMER'S ADVOCATE
would make it less able to resist disease, but the
foul-brood germ must be present.
7. They may ; in faet they are quite likely to do so. It is a matter of what quite likely to
most through acts them most through aburdant nectar secretion. In the early morning they may work on buck wheat, and known of cases where the quality of white honey
was injured in this way was injured in this way
to 8 weeks. When not gathering heason, lives ing the winter, when quiet and not losing vitality a bee lives for months, even from August to April next. A queen bee may live five years, but two
seasons is about the average lifetime.
Brant Co. Ont

\section*{Wintering Bees.}

Editor "The Farmer's Advocate '":
I heartily endorse all that Mr. Holtermann says
in issue of January 13th, re experiments in bee
keeping. As an ex-studant o keeping. As an ex-student of the College, and one
who has not only studied thoroughly the theo-
retical side of beakeopin retical side of beekeeping, but also maghly the theo-
two to eighty colonies for eisht from two to eighty colonies for eight years, and experi-
mented in almost all the known methods of winmented in almost all the known methods of wintering, losing heavily in some cases for the sake
of gaining knowledge, I wish to say that there is
no problem no problem confronting the toekeeper in there is
to-day as difficult to torio to-day as difficult to understand as in Ontario
wintering, and none in which the Wrearing, or as as difficult to which the losses are as
greary best equipment will he nont. Therefore, the very best equipment will be none too good for an
understanding of it. When we realize that over
fifty per cont of understanding of it. When we realize that over
firty per cent. of the bees in Ontario died in one
winter through faulty methods, resented a loss of at least \(\$ 5\) per colony, as they could not be replaced that season for any less, owcostly transportation, lack of time before honey flow, etc., we can understand how the equipment
of a modern beecellar expenditure for the same. Now than justify the had I the advantage of careful, I becurateve that ments in beekeeping, such as the faccurate experi-grain-growing, stock-feeding, etc., it would have
saved me hundreds of both beekeeping and farming, I ander a a trial that if the former had its rightful share of experi-
mental work, at a properly chances for profits in beekeequipped station, the ahead of those in farming, when wo count be much and labor. Ask almost any farmer who has
tried beekeeping, and he will ant and were not for the winter losses, the bees were the of this one problem would alone make tremendous difference in the production of that most whole-
some of all sweets, and add immensely to the fort, health and physical stamina of the people,
and, therefore and, therefore, to the wealth of the country.
Honey is as much an article of win silver, and it ic more of a necessity, and the bees
themselves foon of what are often called the more the produc food products, as clover, which makes important
milk, which in turn supply man with meef and

\section*{THE FARM BULLETIN}

Short Courses at Guelph Notwithstanding the multiplication of similar
classes throughout the Province (Horked up by the
several district agricultural representatives)
annual shol annual short course in stock and seed juvdging at
the Ontario Agricultural College continues to draw
large crowds large crowds of keenly-interested students. At
the two weeks' term of such pan month, at Guelph, there wash pan average work, last
of 225 or 230 , running up as ance
days ong as 300 on some of 225 or 230 , running up as high as 300 , on some
days. Forty students in the Nairy school, and
25 taking the special course in poult
25y the number of short-course students in attendance
at the College to between 350 and 400 while tance at the College to between 350 and 40 , while the
short course in Fruit-growing had an enrollinent of
80 on the occasion of our visit prospects of an additional number bre ago, with
total up to about 100 . This latter course is a
particularly good one, the ten-days' particularly good one, the ten-days' scossion being
packed fuly of valuable addresses and demonstra-
tions coverina the tions covering the subbect of fruit-growing in a
most comprehensive manner. In contrast to the cotirses in judging, which yield few new points
that can be reported advantageously through the
press, these lecturec ing bringse out in wealth of oiscussions on fruit igrowe-
which we shall which we shall endeavor to present after the
course shall have been completed Looking to the "Etathishment of a system of Government proposes to appoint a commission not
only to investigate the requirements of the po-
minion tint
\(\qquad\) Canadian Aypshipe Interesto.
and a healthy membership, increase of registrations,
state finances, was the gratifying
stat state of affairs reported by President W. W. W. Bal-
lantyne at the
 was a loronto, on January 26 th. The meeting to know why the cost of their registration wanted afternoongthy one, occupying both forenoon and increased, if the work was looked after by a directors. Disappointment day's conierence of the other breed society. In reply, J. W. from anHighland with the exhibit of Ayrshires at the countant of the National Live-stock Records, and Stirling, where Agricultural Society's Show, at Mr. Hitchman was paid wholly by the the that that cows, of the show-yard type, reccived honors to Shorthorn Breeders' Association, for whom all his
suit a Can breeders, however, were not in sympald Country actual work was performed. In order merely to
fash his name, the Record Committee had made hion fashionable type, and in the byres and paddocks registrar of all the other cattle breeds except did type was in evidence. These were cows tration of these breeds was done by clerks. As. of fine form, having vigor of constitution and grand matter of fact, considering the increase in Ay a capacity. The Milk Records Committee in Scotfront cows and heifers making large reend to the milk and fat, and demonstrating rarge records of more cheaply than before, although the savingately shire cow was a producer. likewise, in the to the payment of as couple ould have been, owing Association have the American Ayrshire Breeders' ary to the iormer registrar. their Advanced Registry test, demonstrating what they have many \(12,00 \mathrm{C}\)-pound cows. In Canada
 second place to their imported sisters. More taking the remainaer of Mr. Langelier two-year term. test, which, torether with their herds in the The matter of more definite description testing Association, was strongly commended Cow- mals on the registration certificates was dealt In the West, the cow-contest ADVANCING. Ayretary, W. F. Stephen, in his report for 1909 the culls in the the least, sending them it by retaining n 1908, eighteen pedigrees and transfers were re
corded from Alberta; in 1909 there were
Ayrshire men in Ayrshire men in Canada are becoming more en- 1909 ther
thusiastic, as a thusiastic, as a greater demand and a wider field. in ink. Course of which corable discussion occurred, in the and
at increased prices are increased prices, is manifest. Good bull calves that if the diagram system were adontenifest
are no longer a drug on the market bin
dem
 Pacific Exposition last year, a dairy test was con- gram submitted with the application on the dia-
ducted in the Modlel
chas folt hy chased in open market Barn. All feeds were pur- was felt by others that, while the diagram system
 the period of \(\$ 49.69\). The Jerseys were second, the Secretary accordingly moved, in amendment,
with a profit of \(\$ 27.71\) : Guernseys third, with a that, "Whereas, it is the consensua
profit profit of \(\$ 11.34\), and Holsteins last, with a profit among breeders, that is the consensus of opinion
of \(\$ 1.63\) RFCORD OF PERFORMANCE TEST FOR 1909. that bremens be requested to give some definite Ayrshire Association the Secretary of the Canadian the certificate, and loy which the anima to appear in minion Department of Agriculved from the Do- identified." An even which whas animals may he 1909 cows and heifers that have repistered during
 est Canadian Ayrshire record for molds the high- ciety's show, in scotland, last summer, the Presi-
yielding, in one year, 13536 and fat, dent had been consulted by a committee composed of
 while Canadian Princess, owned by A. A. Turner, of endeavoring to have the yearly-records test in Reckman's Corners, Ont, holds, it is thought, the Canada and scotland correspond to a uniform
best known Ayrshire record for a three-year-old, standard, consistent with the prevailing conditions
having yielded 11.377 pounds of 4.59 -per-cent. milk. in both Scotland and Canada. As a result of
 Conference with Ayrshire breeders in the Mari- which was presented at the meeting last wek. It
time Provinces. in percmber there are certain radical differences
 pended on the and the considered that money ox that the inspector prays bi-weekly, or, at least.
 received during the past year, hringing the werm- add the breede keens the thaily misits. In Cecords, the
bership up to the highest in the history of the inspector simply checking thoco
Association



\(\qquad\)
of thuestion arose as io leave a cow partially warding against temptation


of the Ayrshire. as well as some of the bed and
the constitutions of the new such matters, and of haticerds of milk and calculated vields
within 365 davs prior to theconstitution of the Nate to harmonize with the
constitutions of the Aliscord Board. The
constitutions of the Ayrshire and some other hreed
sociefties will accordingly require to the amended
in this ome recnert
Chateh. Mequires the dropen the American and
february 3, 1910
IHE FARMER'S ADVOCATE
\(\omega\) ask for any change in the Record of
ormance system, but a
committee consisting

william Hunter was appointed to confer on the \(\underset{\text { matter. }}{\substack{\text { niliam } \\ \text { n }}}\)
order to encourage greater promptness In order to rasers, the e directors recommended
sending in transted
\(a\) penalty fee be im and it was adopted to members, and \$1.00 to non
posed, of 50 conts
members, for transers not sent in until after 90
mot deeys. Within that
cents, respectively.
cents, respectively.
COUNT FEED AT THE DAIRY TESTS.
4 motion was carried in favor of memorializisy
the other dairy breed nocieties, to see that cost o
feed be taten into consideration in connection with
 thator of duplicating last year's grants to the
Winter Fairs, providing they accepted the proposition outlined above. It was recommended, in this of three days.
Despite the requests of the Maritime Provinc
 onded by wm. Stewart, and carried,
grants be made to any of the fall farr
Lack of funds was the reason assigned.
REGISTRATION TANGLE.

Quito a tangle has developed in the matter
of the American Association. In the first volumc
of the Dominion Ayrshire Herdbook there were a number of pedigrees recorded in the following very
loose manner- .Ewart cov, No. 3.235-; red and
lit.



 that the sires and dams be specified definitely, and
new numbers
given them. This was innocently would witimately entail

Creampot, (imp.). 23810 , Vol. 17 . Last year, at
Geo. Rices sale, the cow Jean Armour was sold, ogo to Pennsylvania, and it turns out that she
tracees to Ewart Cow, No. 1, formerly numbered he descendants of Creampot since re numbered
 is on dount that thousands of Ayrshires now reeg
istered trace back to these Kwart cows.
There is already a list of 10 tracing to the cow Cream-
pot; and as such animals are sold to go across
 ply with the American ruling, it will upset our
whole Ayrshire herd record, so that there will not en one book right, not even in the office at ot
fawa. A pedigree might be issued one day givin the originai number of a certrin ancestor, and the
next day another pedigree piving that animal
 ave been to retain their old numbers, simply
triking out all thut the true names of their sire
 Hon will have to be modified accordingly Thsocia
The
seretary of the American Association claims he
annot rescind the


OFFICERS,
Ellection "or officers resulted in the re-election of H. Parlee. represcenting for the substitution of M
 leetegates were ellecter ans term on the directorate for
exhibitions, and the various Following is a list of the more-important officers
President


 Stephe
the directors expressed their sincere sympathy with
he Secretary, in his recent bereavement through

Meat Boycott Misdirected The boycott against meat has been rapidly
gathering adherents and strength. Already it
has had effoct has had effect on the price strength. Already it
the price of live stock. and also on he price of live stock. The originators of the only; the "trust" is universally feared and detested, but it is likely that, of all the classes af-
fected, the packers will suffer least. Many retailfected, the packers will suffer least. Many retail-
ers will be snuffed out, and the prices oi stock will be depressed, but the packer is a go-between, a
middleman. U. S. Secretary Willson is inclined o blame the retailer for taking too large a perposes the seat of the trouble when cleverly ex"the American people are suffering not so much from the hi
high-living.'
A Government investigation of the National Packing Company, of Chicago, for violation of the
cherman anti-trust, by maintaining an illegal combination to create a monopoly and restrain
trade, is already in progress, and prosecution is expected to follow. Let us not worry good will undoubtedly come if the result of the furore should be the develop-
ment of more thrifty, careful habits, it will be

\section*{Registrations, 1909.}
ee, a meeting of the National Record Commiteport for 1909, as prepared by the Accountant and Secretary, was considered and adopted. The report shows a large increase in the receipts of
registration and membership fees for all breeds the totals being, respectively, \(\$ 27,439,61\) for 1908 ,
and \(\$ 40,078.73\) for 1909 , Receipts for the Short, horns in 1909 were about \(\$ 1500\) shead the pron ner
vious year. In Herefords the increase was \(\$ \$ 00\),
and in Jerseys \(\$ 200\). There was a small decrease and in Jerseys \$200. There was a small decrease rease of over \(\$ 6,000\) in Clydesdale registration.
The Hackney business doubled, and the Shire busi ness was three times as large as the previous year. \(\$ 1,500\) was received on the Percheron account, being a slight increase over 1908. The sheep fees
ncreased about \(\$ 300\). The expenditure for conincreased about \(\$ 300\). The expenditure for con-
ducting the office was slightly in advance of 1908 , total of 22.390 pedigrees were recorded and in 1909, 26,145 In 1908 there were 4,752 trans-

\section*{New Canadian Aypshipe Milk} Record.

\section*{What promises to be a new record of Ayrshire} cow Annie Laurie, purchased at Mr. Rice's the by E. K. Cohoon, of Harrietsville. At the recent
meeting of the Canadian Ayrshire Breeders' Asso-
ciation. Mr Cohoon ciation, Mr. Cohoon stated that the cow would probably fall 150 pounds short of the record of
the best American Ayrshire cow if Annie Laurie's recorded production only be taken into account. but if she be given credit for four days' production
at the beginning of her lactation period, and before the recording of her milk yield commenced, she would have given about 15,090 pounds of
milk. The present owner believes there is reasonable doubt but that the cow must have days immediately after calving, and application has heen made by the owner to have allowance
for this estimated production included in the cow's published record

\section*{Canners Combine.}

\section*{ganized it embraced 33 Coners, Limited, was or} \(\begin{array}{ll}\text { of the Dominion, and } & \text { controlled about three } \\ \text { quarters of the output. Since that time a num }\end{array}\) ber of independent companies have sprung up, reducing the percentage of output of the merger to
about one-half A new development is the taking over of these independents, practically all of which, it is announced, have agreed to enter
new amalgamation, which will now comprise bc tween fifty-five and sixty factories. It is under
stood that the independents will be given stock in the merger. Following this statement comes a Montreal despatch, hinting at an alleged secret
agreement between the Canadian Canners and the American Can Company. It looks as though the
subject would bear some investigation.

The 1)ublin (Ireland) Industrial Development As sociation, at a recent meeting, took steps to have
good exhibit of Irish products at the Canadian

\section*{Essex Tobacco Profits.}

Although it is midwinter, which is usually an idle time for farmers, yet in Southern Essex they are exceptionally busy. The good-times we are enjoying must accor man is seeking to follor within reach is concerned, but moking preparation for next season's crop. Old rail fences are disappearing to the hum of the circular saw, and new, substantial, tasty wire ones will be seen, instead, as soon as weather permits. Tobacco-growers are rushing
their last season's crop to the warehouses. They their last seasy well pleased with roturns, and are exceedingly well pleased sample is excellent. The following may give some idea of what money is made by
successful growers of the weed. Forest Campbell received \(\$ 312.15\) for one-acre crop ; J. J. Wilkinson, \(\$ 1,065\) from four acres; Geo. Evans, \(\$ 1,50 \mathrm{C}\) off five acres. E. Allen, on Barnard farm, who
produced seed produced seed-leaf, received \(\$ 3,000\) from sixteen acres; C. Stockwell, \(\$ 3,000\) from ten acres; B.
Wilkinson, from two and a half acres, \(\$ 60 \mathrm{C}\), etc. We might multiply cases, did space permit, but
these are sufficient to indicate what a paying inthese are sufficient to indicate what a paying in-
vestment tobacco-raising is becoming in this Westvestment toba
ern peninsula.
The purchasing of 2,000 acres by English capitalists in the Niagara district, to be sub-
divided, and farmed after the most improved methdivided, and farmed after the most improved meth-
ods, is arousing farmers along the front, and bringing them to recognize the possibilities lying before this fruit-growing section. They believe the movement will spread, and Even now advanced prices are being received. A returned Manitoban, Mr. Harroway, recently purchased B. W. Cox's farm of 25 acres \(\$ .2000\) since being procured by Mr. Cox about one year ago. Reports say Mr. Anderson has refused an offer of \(\$ 10,000\) for his 25 -acre farm, purchased a short time ago at
\(\$ 7,000\). Land in the fruit belt is rapidly rising in value. Investments in fruit farms are paying as high percentage, according to money involved, as fruitmen The Poultry Exhibition in Leamington last week was pronounced a marked success, by those who were in a position to judge such mather point has been scored in Essex's favor The fact was again demonstrated that this County is not only the home of the hog, but that, with duce the giant cereal in such abundance, we have likewise a suitable home for poultry. According to statements by those who are in the business, poultry in Essex compares favorably both in quan-
tity and quality with the older counties. The prospective corn exhibit in the Town of Essex is
exciting quite an interest among the more promiexciting quite an interest among the more promiit being largely patronized. That it is a step i
the right direction is acknowledged by all.

\section*{Standino Field Crop Prizewinners} at Ottawa Winter Faip.
the grain from the standing-field-crop compet of a high standard, and created favorable comment among the many farmers from the dif-
ferent sections of Eastern ()ntario who visited the Exhibition. A portion of the grain which won prizes was retained by the Ontario Department of Agriculture, to be used for experimental purposes of the Province , The balance is being shipped to the office of the Ontario Government in London, England, to be used for exhibition purposes. The public auction in the Howick Pavilion, Ottawa. Not since the inauguration of these field-crop competitions, three years ago, were such crowds in
attendance, the bidding so spirited, or such splendid prices realized. The money received for this Mr. Eddy, of Ottawa, acted as judge, and appeared to give exceltent satisfaction. Tho follown is hist of the prizewinners: Oats-1, Melvile Trewin, White, Beachburg ; 4, Feter Drummond, Keene ; 5 , Andrew McKay, Woodville; (;, W. J. Barber, Ameliasburg, Wm. Lewis, Munsford; 8, Jas eon : 10. Thos. Cosh, Bobcaygeon. Barley-1, David Malcolm, Nestleton.

The cause of better roads in Ontario has lost the services of an ardent champion and capable ell, Deputy Minister of Public Works. W. Campnissioner of Highways, to the Federal feld, in the capacity of Deputy Minister of the Department
of Railways and Canals, at a salary of \(\$ 5,000\) a year. His appointment to the position of Pro

\section*{THE FARMER'S ADVOCATE}

\section*{A Faip Association Banquet} Anually, the directors of the Oakville (Ont.)
Fair hold a banuque on the evening of the annual
meeting, the aim ant time socially, being not only to to have a a pleasmen of the Province ot ob oresent, and give ad-
dresses along the most practical lin
hunsered intelligent, prosperocicas lines. Over two men attend, and so propperous farmers and stock-
become that accommodation these banquets
bis the chief problem become that accoommodation is the chief problem.
This year's banquet was on Friday evening.
 give an address, which dealt with live-stock prob-




A delightful feature was the presentation of at embossed resolution of thanks to Herbert
Walter Harland Smith and Hugh Wilson, Waiter Harland Smith and Hugh Wilson,
grand exhibition of horses gratuitously
the the fair last fall.
the even greater ensly given a
pro promised for thin An even greater exhibition it
the annual dates of the Fair. A. S. Forster, the president, arranged the banformer banquets have been given by such gentle men as Henry Glentining, givet. Miller, Jos. Bent Bre
thour, Jes. Prookkent. thour, Jas. Brookbank, C. C. James, Simpson Ren
nie, J. Lockie Wilson, and others

A rumor which must have originated by sponoffect that G. C. Creelman, President of the On-
tario Agricultural Colleg with many Liberals for leadership of strong favorite

Toronto despatches state that the Ontario Good Roads convention is to be held in that city, in the County Buildings, on March 2nd, 3rd and 4th. The tenth annual convention of the Ontario sociation of Fairs and Exhibitions will be held in
the City Hall. Toronto an Wednesdoy the City Hall, Toronto, on Wednesday and Thurs-
day, February 9th and 10th 1910 a.
A. W. Campbell, who was appointed Provincial Commissioner of Highways for Ontario in 1896 Public in Works was made Deputy Commissioner of Public Works for the Province, has been appointed and Canals for of the Department of Railways caused by the retirement of Me fills the vacancy sumes office on February 5 th. Mr. Cumphet as. civil enfineer, who has made a specinlty of construction, a \(\qquad\)
A resolution to the following efect was to b moved in the British Columbia Legislature on Tuesday of this week: "Whereas it is detrimental
or Chinese persons should Frovince that Japanese titles to or to hold lands therein, be it acquire resolved that this House is of the opininerefore legislation should be enacted by the Parlion tha Canada prohibiting such persons from acquiring o holding land in the Dominion of Canada." explanation of this resolution, which has aroused
keen interest in the ken interest in the Pacific Province, it was ex-
plained that all through British Columbia the pained that all through British Columbia the
yellow men, particularly the Japanese have yellow men, particularly the Japanese, have been
acauiring nad holding most desirable fruit and
market-garde market-garden hands. most desirable fruit and
to utilize in competition they are commencing
tion in the Provincial Legislature. That Mr. Creelman has any such design or intention hras
beon straightly denied by those most intimate
with the president with the president, while he himself has declared
 ido sympathy with agricuturat and ho would heartily sumport the the Cotioge stai Dr. Harrison, who has had a ereat dontment with the constructive and administrative work of
the College, both in its earlior the College, both in its earlier and and later work of
His andeged His abilit
|

 persons who have used them, ane ovidencea
by numerous testimonials.
For partien

\section*{humane collars}

Doar Sir,-I
know what your Human
Dlare are.
I got your catalogue use in trying to convinco cay motriend
the value of the great invention. I travel all Saskat anhewan. I meat, an farmers chiefy. If Iork had a good num then vertise your business perhnus help ac anyonen you could find. 1 do it for the the
poor dumb and anything out of it. I wish everybod
could see the merits of your collars as
for you.
MoLean, Sask. \(\begin{gathered}\text { Yours very } \\ \text { B. } \\ \text { B. Mouly, }\end{gathered}\)
A CHEAP HOUSE.-The attention of
parties Eontemplating building a summer
or suburban able, and at a moderate price, is is directect-
to the advertisement of the Chicago House

 cupplyadian a customers, for 8675 , also to are for \(\$ 25\) a hot-nir furnce for \(\$ 108\),
a hot-water heating plant for \(\$ 220\),

gossip.

\section*{records
late for
lor}

causing a good deal of public interest. in line with the proposed amendest. Petitiona
pouring into the senate pouring into the senate. A special committeod
the Commons has been busy taking evtdence of from those who oppose as well as thonce botho of racing is that The argument of those in faro finest class of horses, and it seems breading of the that, without betting, horse racing would dencled crease in criminality which is drawn to the in: meet, and to the crowd of undesirablecs a race tend th. Hon. Sydney Fisher, who does not at whom he had once observed twarming the of mene
when a race was om and when a race was on, and " whom he would no
care to be with in the dark."

Since the resignation of Ir. Robertson as Prim Dr somewhat unsettied state at this institution Acting Princi, Professor of Bacteriology, is : now pointment to the position being in the hermandst ap the college i is nofl at McGill Uni versity, with which that the School of Agriculture bee ty to be hopel sideration when the appointment to then due con mph made. The man chosen should be in tho


R. K. Row, who did good service as Bounty, and in Kingston, Ont.. has \$800) per head. An English con fect to follow on the Hohenzoller risen in his profession in the neigh-
boring Republic. He has recently
oritt written a , book of 250 pages, under
the title, ", The Educational Meaning of Arts and Industries," in which he
abty discusses the physical, intellec-
the tual, ethical. and other values of in-
dustrial education.
Naturally, the larm and the tome come in for as oresees in the adaptation of the Fural school to the needs of the farmto the agriculturist inceased prosperity conditions, greater selffrespect home respect for vocation, prolongation of ehe school-life , the socializing of the
school through its library schoory through its library and lab-
oratory, and opportunities for assemblies of the people. He arruse
for the specializing towards arriculture in the last three years agricul public-school course

The confident assertions occasional made by some writers on this side se se
of the Atlantic, that the conserva tive lethargy of England in s. conservat that
no progress is being made in that or industrial conditions, are not cor
rect. As a matter os fact impron ments in both respects aro most
marked, and perhaps surer for deliberate. During the recent year there has been a marked improvement don in 1909 whe p,510 less of than in
December of the previlues vear conditions are being steadily regener ated. In a recent address, John
Burns, M. P., chairman of the maux, at a total cost of \(£ 60\) (nearly
sion) per head. An Engyish con
temporary aptly describes the func
tion calculated upon and intended this ef- countries. The result now is that
fect to follow on the Hohenzollern the descendant of the discoverer hame
candidature ; that he hoped and the largest mills in the world
 the restiveness of the toiling masses, bare neecssaries of ilife, at they whe
ness such lavish and vular display


 denco of a high order of intelligence. France was actually doctored by the
Iggorance and absence of ideals in. Itron Chancellorly
Ind
 plays. Through lack of education, Called, into a provocation to war.
such men, the though able to hinself was not anxious such men, though able to heap up for the shaky throne of Spain, and
riches, are unable to enjoy them in a his father was opposed to his candi-
rational way ciation of the Thest have no appre- dature. There still minght have been
ture and art, have no sense of pera- peace but for mishievous and
and ture and art, have no sense of pro- precipitous political intrigue in the
vortion and dove not recognize the
real ities of life,
the thench Cabinet, resulting in a demand colut of life, the things that upon Prussia for a guarantee arginst
ount Lacking the seeing eye, they any future candidature for the span
 of being a power for good, wealth
to then is merely a nieans of un-
worthy ostonation
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starts. Imbecinty wetween, sometimes

``` Weekly points out, France learncd
rom the disastrous lessons
 blessings of peace, the triumphs, that


\(\qquad\)

\(\qquad\) cost her the Provinces of Alsace and
I.orraine, and fabulous sums bosides.

Rural Architecture. There is a movement in some of the
Arnerican towns looking to the mumie ipal supervision of architecture. town, made up of red, yellow amf green houses, in startling juxtaposi
tion, scream a discord harest tion, scream a discord harassing in
the extreme to the extreme to asshetic nerves, and
that, however individuality may be must preve some in sort of hatmony
beauty and and quiet int intereste of interests of the lives of the people discovered that we are discerning. have pier, but better we are not only hapmonious and beautiful surroundinga. does not, of course, concern us of the
rural districts especintly our urban cousins well. We wish lights us to look at a handsome resi-
dence or fine lawn as we drive in to market ; but we well know that such things as architecture and public
\(\qquad\) the largest mills in the world forthe
manufacture of this special wished that it would provoke France \(\begin{aligned} & \text { manufacture of this special kind dhe } \\ & \text { to war ; that he wanted war ; and } \\ & \text { paper. The reason that the paper is }\end{aligned}\) that his one apprehension was that of use in drying ink is that really if
\(\qquad\)
Rural Architect. fter better in the city to be looked orraine, and fabulous sums besides. Borkstire, when a careless workman spirited we may be, however public that it is
a question which concerns us

Government Board in the Asquith
Cabinet, ture care of the poor should be rather
in the home thnn in tions, but the thinking ratepayer was
coming to see that removablo causes and preventable conditions ons must causes
dealt with.
Root out the . 4 . and there would be less " " "uring " "
poverty to solves must reciproc, The poor themefforts. The war against povert own ness and destitution was not a skir
mish or a single long-continued, disciplined it wampaign,
in which lest generals than of the rank and thio the conquer, it neeled good- health in in
discipline, energy in carly manh in discipline, self-respect, providence, so
briety, and mandy wery one. The poorer men were,
more they needed those the women, all those qualitities. In needed, combined with the holy frie
maternity, love of children pride it home, and, aloove nll, a cheerful nd women could co-operate, and,
heir co-peration, the future of might he abolished, and miseryy com-


But the movements for ctvic beauti-
fication do set us thinking. When we fication do set us thinking. ctvic beauti- When we
hear of the renovation of Toronto, according to plan, and catch a men-
tal vision of what the Queen City will be when the grime Queen City wat railways ceases to monopolize the
waterfont; when an esplanade runs down to the lake, an esplanade the " foot of onge st. crossing" is a nightmare of
he past, then we wonder what "the country," will be doing. \(\begin{aligned} & \text { Phat "the } \\ & \text { are a little thank }\end{aligned}\) Pull that it can never are a little thankful that it can never
he beautified anccording to a plan."
Its. beauty lies in its irregularities,
its
 of farmhouses, ranging from the old
homestead, with its century-old tress,
to the brand-new . co recidence, ", with homestead, with its, century-old trees,
to the brand-new "residence,", with
a purplle clematis straggling up to to
window in solitary splendor. Inded.
a log house may be a picturegue
feature, especially if caught through
a vista of preen orchard or tangle of

\(\qquad\) throne of Spain was vacunt. (one scenes would take place in that mill,
morning Europe was astounded by as the whole of the paper made was
the new. the news that a Prince of the House regarded as being quite uscless. The
of Hohenzollern-that is to say a of Hohenzollern-that is to say a proprietor of the mill desired to write
Prince of the same family as the King a note shortly afterwards throne. Fiverybody know that the took a piece of the waste paper,
relations between France and fier purpose it was pood enough for the relations between France and (ier purpose. To his intense annoyance
mamy were severely strained, that the ink spread all over the paper.
they had both been piling up, arma- ll! of a sudden there ments against euch other ; that there of of a sudden there flashed over his
was always the peril. if not the cer- would do, instond of that this paper
 spark to produce the inevitable con- was such a hig demand that the mill
flagration This Hohenzollern can- ceased to make ordinary
didatur lagration. This Hohenzollern con- was such a hig demand that the mill
didature semmed to lo that spark. it
ceased to make ordinary paper, and

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Hope's Quiet Hour.
The Second Crucifixion.
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The light bread or the leaden loaf is a matter of choice-not luck. Choice of method-choice of yeast-but, above all, the choice of the flour.
Royal Household Flour
is made from the finest, selected Manitoba wheat, which contains more gluten (that quality which makes bread light) than any other whent.

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

Ask your grocer for Ogilvie's Royal Houschold-the flour that makes light bread and perfect pastry.
eallite Flour Mills Co , lhetied, Montreal. 15

\begin{tabular}{|c|c|}
\hline \begin{tabular}{l}
Do you want to know how to take care of and run any kind of boiler and engine? Our course by mail teaches you fu'ly the care, construction and opera. ion of all kinds mination for englmeer's ilicense or certificate in any Province. \\
We give course in Stationary, Traction, Gas or Gasoline, Marine and Locomotive Engineering. You may take any one or more of these as desired.
Special instruction in Arithmetic included free of charge. Your fee is good until you pass your examination or take your diploma, and you are allowed all the time you need to complete the course -if costs no more for four years than for four particular branches of the work you are interested.
\end{tabular} & \begin{tabular}{l}
He Knows Its Value. \\
Elmvale, Jan. 10, 1910. \\
Canadian Correspondence College, Toronto, Ont.: \\
Dear Sirs, -Received my diploma all O. K. for Stationary and Traction Engineering. It is something to be proud of. Corom experience, lege is one of the best things tor any man whe can not take the time togo to school. I would not begrudge
five times the cost just for the im five timest of my education. I will do all I can to get others to take advantage of such a boon to workingmen as a Correspondence Course is. Thanking you yery much for what you bave done for me. 1 am , \\
Yours truly, \\
W. H.' Clemment. \\
Canadian \\
Correspondence Collese, имітед, \\
Dept. E, Toronto, Canada.
\end{tabular} \\
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DIAMOND DYES Will Make Old Dresses Look Like New DIAMOND DYES Will Freshen Up Carpets and Rugs was a I can hardly tell you how helpful Dlamond Dyes are
Never throwl, mirl mother always used Dlamond Dyes Never throw away anything untily you are sure that Dlamond opyes say the newest-looking clothes in our neighborthood. had the brightest house and "Since I have been married I have held fas have helped me keep my children and my home looking nice at almont they "x \(I\)
DYE Anave done hundreds of thingss suggested by your valuable DIAMOND new things, and read them the helpful hints in the Annual. Lots of them them hy
Dlamond


\section*{Diamond Dyes} Will Do the Same for You like new with their use

Portieres, couch covers, table covers, ibber trimmings of all kinds are given new life and added beashes and And for dyeing dress goods, faded garments, skits and suits, Dlamond Dyes are invaluable, both in skirts, waists usefulness.
There is no other dye made that will do the work of Dlamond
Dyes. There is no other dye that you can use with safety to the
material
You Take No Risk with DIAMOND DYES You can use Dlamond Dyes and be sure of the results.
can use them with sofety can use them with safety on the most expensive piece of goods, and
there is no danger of the goods hecoming there is no danger of the goods becoming spotted or streaked or There is no oth
Dyes. There is no other dye that you can use with of Diamond yaterial.

Dlamond Dyes are "The Standard of the World," and the
\(\qquad\)
the truth about the use of dyes
\(\qquad\)







Diamend Dye Annual - Free Send us your name and address be sure
 THE WELLS \& RICHARDSON CO., LIMITED 200 Mountain Street, Montreal, P. Q.

FEBRUARY 3, 1910
We volatilized, and the ring brought back to its normal condition. R. HARCOURT. O. A. C., Guelph.

The "Fapmer's Advocate Fashions


6550 CIrcular Knickrt
bockers. 24 to 34 waigt


6533 Child's \(\begin{aligned} & \text { Drarion By Muy Mantors } \\ & \text { Double Breasted Coar }\end{aligned}\)

\section*{Cakes. \\ aps flour, 2 cur
ins seeded an
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cup melted bu \\ Drop by
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ne glady,
I shall \\ I shall enjoy
order, "as I
The Farmer's \\ er, and wh \\ \(\rightarrow\)}


244 Deston by Max Mantom
6244 Dressing Jacket.
621. 1 ive Gored Skirt.

THE FARMER'S ADVOCATE


When ordering, give age, if for Misses
pattern, waist measure if for ladies'. Price of above patterns is 10 cents for
each number. Address : "Fashion De
partment.

Current Events.
Emigration from the United States last year totalled nearly 91,000 , as A destructive fire at Elk Lake has A destructive fire at Elk Lake has
caused the ruin of the greater portion
of the business district, and entailed a loss of nearly one hundred thousand
dollars. One of the most serious and fatal
accidents in the history of railroadaccidents in the history of railroad-
ing occurred on the Soo Branch of ing occurred on the soo Branch of
the C. \(P\) R. on January 21st, when
an express train was derailed several of the cars plunging down the bank into the Spanish River. The dead
and injured number one hundred. The standing in the British elecse heard from, is as follows :Unio ists elected, 272 : Liberals elected, 271. Nationalists elected, 80 , La-
borites elected, 40 The final re-
cult which sorites elected, 40 , be the final re-
Febill not known before
Febryary 12 th, will probably give February 12th, will probably give
the Unionists 274 seats, the Liberals
竍 273 , the Na
Laborites 41



That Helps Me To Make Prize Butter
And I can tell you, Salt plays a very important part in butter making.
Give me good cows and Windsor Butter Salt, and I will win the prize every time.
At the big fairs for years, practically all of the prize winning butter makers have used it.


The Razor Steel, ISecret Temper, Cross-Cut Saw.
\(\mathrm{W}^{\mathrm{E}}\) take pleasure in offering to the poblic a



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antee

 figher price than the best American saws. Man
SHURLY bony \& DIETRICH, GALT, ONT

\section*{Throw away the old washboard:}

How about that heavy family washing that has to be done each week ? It seems breaking washboard method, which makes ccmmon drudges of Mother, Wife and Sister (which results in irritable, nervous, over-worked women.) Our


\section*{Workers! Wear "STEEL SHOES}

Say Good-Bye to Colds, Chills and Doctor Bills. Ho More Corns, Bunions, Soreness or Discomfort!


Prease Mention The Advocate
\(\left\lvert\, \begin{gathered}\text { Unusually severe storms in Franc } \\ \text { have caused the overthow of the } \\ \text { Stive } \\ \text { Seine, occasioning untold }\end{gathered}\right.\) sene, octasioning untord ruin an
disaster along its course; the dea
already number hunder City of Paris the hundreds. in the istress is most acute; a yreat part of the city is
under water; housedrains and sewers
 plants, half of the city is in dark ness, many are suffering from want
of toon, and at the time of writing
tho food hat height. The damage is already est

The Golden Dog
(Le Chien D'Or.)
A Canadian Historical Romance.
Copyright, 1897, by L. C. Page \& Co. (Inc. [Sertal RIghta Securred by the Worm. Weld Co., Lrd. CHAPTER L. L.-Continued.
There was much stir in when the Bourgeois began his accus-
tomed walk among the stalls, stoptomed walk among the stalls, stop-
ping to converse with such friends as ping to converse with such friends as
he met, and especially with the poor
and infirm, who did not follow himhe hated to be followed-but who stood waiting his arrival at certain
points which he never failed to pass. The Bourgeois knew that his poors
almsmen would be standing there, alnsmen would be standing there,
and he would no more avoid them
than he would avoid the Governor A group of giris very gaily dressed
loitered through the market, purchasloitered through the market, purchas-
ing bouquets of the last autumnal
flowers and fowers, and coquetting with the
young inen of fashion who chose the
market-place for their morning prom-
enade and who market-place for their morning prom-
enate, and who spent their smiles and
wit freely, and sometimes their money, upon the young ladies they
expected to find there.
This morning the Demoiselles Grand-
maison and Herlert were che maison and Herlert were cheapening
immortelles and dry flowers to deco-
rate their winter vases-a pleasant
fashion, net fashion, not out of date in the city
at the present day.
The attention of these voung ladies Was quitention of these young ladies
talk taiken up with the talk of their cavaliers as with their
hargaining. when a quick exclamation grected them from a lady on horse
greck, accompanied ty the on de Pean. She drew bridle sharply in
front of the group, and leaning down
from har rom her saddle gave her hand to the
adies, hidding them good morning in A chery vice which there was no
mistaking, although her face was in-
vishle behind her weil. It was An-
february 3, 1910


\section*{SOMEIIME, \\ SOMEHOW \\ you are come to do \\ SOVETHING \\  \\  Superfluous Hair

 \\ Hilscott Dermatological Institute 61 Collese st. Toronto.}

SEED OATS FOR SALE


\section*{Barn Roofing}

Fire, Lightning, Rust and Storm Proof

Durable and Ornamental
Let us know the size of any root youare thinking of covering and we will make you an interesting offer

Metallic Rooing Co,
manufacturers,
TORONTO and WINNIPEG.


Let the ohildren drink all they want. Healthul, nutritious, colight ful.
Absolutely pure. That roh ohocolate flaver. Very economical.
 Bpeclal Notice BETTER THAN SPANKING. Spanking does not oure children of bed
wetting. There is a constitutional this trouble. Mrs. M. Summers, Box \(8 \mathbf{8 1}\) Windsor, Ont., will send free to any mother her successful home treatment, with /full
instructions. Send no money, but writ her to-day if your children trouble you in this way. Don't blame the child, the chances
are it can't help it. This treatment also are it can't help it. This treatment also urine difficulties by day or night.


\section*{}

Raise The Crop That Never Fails

 This Is How You Can Mave You that


 and dixind

You Get, Free the Adr
 anow
 Wornuet You willingyy
 Evitwixamin


 New Amberol
Records Records by Sleźak

Leo Slezak, the great tenor, now sings for you in the Edison Nhow York audience singer Slezak is, is old in a seat to hear. Just how great a New York World the morning after a the Metropolitan Opera House. "Carecent appearance of Slezak a

Serak has made ren records for "Carus now has
principal tenor made ten records for the Edison, comprising the -so that, while the Nom the more prominent roles of his repertoire Slezak in one opera, with the Edison Phonograph and Amberol Records you get Slezak at his best in his ten best roles, including Otello, Lohengrin, Tannhauser, Rhadames in Aida and Rodolfo
\[
Q_{01}
\]

Only on Amberol Records can you get a full length rendering these great arias-and only on the Edison Phonograph do you ret Amberol Records. Hear these great Slezak Records at any Edison ur
 There are Edison dealers everywhere. Go to the nearest and hear the Edison Phonograph
play both Edison Stand ard and Amberol Records. Get complete catalogs from your
dealer or froun us.
\begin{tabular}{|l} 
The Recollet Brother Daniel \\
been the first to fly to the help \\
the Bourgeois. His gray robe pre \\
ently was dyed red with tre blood \\
the best friend and protect
\end{tabular} ently was dyed red with the blood of
the best friend and protector of thei
monastery. But death monastery. But death was too quick
for even one prayer to be heard or uttered by the dying man.
The gray Brother made The gray Brother made the sign
of the cross upon the forehead of the
Bourgeois who Bourgeois, who opened his eyes onc
for a moment, and looked in the fac of the good friar while his lips quivered with two inarticulate words
"Pierre! Amelie!" Pierre! Amelie!"' That was all from the light of the sun. The good
Bourgeois Phililert was dead. "'Blessed, are the dead who die in the Lord,'" repeated the Recollet 'Even so, saith the Sp
De Pean had foreseen the likelihood of a popular commotion. He was
ready to fly on the instant, but could not prevail on Angelique to leave Le
Gardeur, who Gardeur, who was kneeling down by
the side of the Bourgeois, lifting hin in his arms and uttering the wildes accents of grief as he gazed upon the
pallid, iminovable face of the friend
of his youth
\[
\begin{aligned}
& \text { " That is the assassin, and the wo- } \\
& \text { man, too," cried a sturdy habitan. } \\
& \text { " I heard }
\end{aligned}
\]
"I heard her bid him draw his sword
". upon the Bourgeois."
(To "be continued.)

\section*{TRADE TOPICS}



\section*{Trench's Remedy} Epileps \({ }^{\text {-ron }}\) AND Fits
 Thimuction rivorice

 TRE MOTH:




\section*{THE TRADERS BANK OF CANADA}

Proceedings of the Twenty-fifth Annual General Meeting.

\begin{tabular}{|c|}
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General Statement, 31st December, 1909.
 LIABILITIES


The following shareholders were present, namely
F. J. Harris, John Smith, James Linton, H. R. Playtner, L. Bauer, Julius
A. Halbhaus, Geo. F. Hedges, Edwin J. Thorpe A. Halbhaus, Geo. F. Hedges, Edwin J. Thorpe, Andrew Semple, J. K. Niven,
P. A. Vale, James Young, F. D. Johnson, R. L. McIntyre, H. H. Gilder-
sleeve, J. C. Sinclair, M. Garvin, James E. Baillie. Jonn Jingon Riche, J. R. McKichan, E. C. Jackson, W. W. Soule, E. Dickenson, Jr., Rev. J. J Stewart, George Mair, J. M. Duck, A. St. Barge, James Buryside, A. Dillon Mills,
F. Wilson, W. S. Rodgers, Archibald Filshie, George Macdonald. In the unavoidable absence of the President \(f\) the meeting.

On motion, Messrs. John K. Niven and E. Galley were appointed scrutineers
Statement of the Result of thenBusiFor the Twelve Months Ending 31st December, 1909

\(33,200,4007\)
8
893,996
1
ASSETS
 Botes of and Cheques on other
Balance due from othor Banks.
ISalance due from Foreign A. Malance due from Forign Agents
Dominion and Provincial Governme
 \(\begin{array}{llll}\text { cailway and other Bonds, Debentures and tocks .... } & 704,801 & 53 \\ \text { Call and Short Loans on Stocks. Bonds and }\end{array}\)

\(13 i l s\) discounted current.....
Notes discounted T.oans to other Tanks secured

of general Bank Noto Circulation (inn for security

\section*{Real Estate, the property of the Bank fother i..... 152,718 60} Bank prenises.
sume, say, within the next ten years? The money markets of the world are open
to us, investors abroad realizing the in-
trinsic value of our securities, and the trinsic value of our securities, and the
increasing, value which will naturally ao
crue to the same crue to the same as the country is ac
veloped. I sincerely trust wo veloped. I sincerely trust we may so
fulfill our oulligations, private and corporate, to merit this confidence.

\section*{The Bant Bank's Progress.} tended during the past year by the open-
ing ing of several new branches. Amonget the most important, I mention Mongreal
and Vancouver. Our growing busineas demanded our occupation of these imimportant points, and the growth of the
Provinces of Saskatchewan and Aberta has inces of Saskatchewan and alberta
influence incease our sphere of influence in those Provinces.
The capital sphere of
ind The capital of the Bank mow amounts
to \(\$ 4,354,500\), and the Rest Account to \(\$ 2,200,000\). It is interesting Account to note the with ten years ago :
\[
1899 .
\]
1909.
 The revival in all lines of business o this continent is more or less apparent.
It is natural that we should feel the is natural that we should feel the
mighty impetus which follows from a
favorable state of affairs in our agricul favorable state of affairs in our agricul-
tural and other resources,
forget, must not
fowever, that it is during such forget, however, that it is during such
times we are apt to overshoot the mark The inevitable cycle of of had of extensions. to recur, and it behooves us to keep our
commitments well in hand to prepare for
(uther conditions whon Nther conditions when a policy of re
trenchment will be necessary.
It will afford me much pleasure to anIt will afford me much pleasure to an-
swer any questions in connection with the
statement which any of our shareholders The Vice-President's Address. The Hon. J. R. Strattun, the viceThe Bank has been more than prosper Ous during the past year. Benefiting by
the general advancement of all branches of business, and receiving its full share
of the advantages resulting from greatly-
improved conditions in the trade improved conditions in the trade of the
country, the Bank has Sent to you a report which is as highly Co gratifying to to te shareholders.
no time in it
At
its
more satisfactory results, nor has it ever
been in as struncter


 ablesed, and the deposits have grealy in in
able. The field of readily avail
been oxtended. highly-important , lranches have been or-
ganized. \(A\) thoroulth and Working of the staff and the management cised, and your Directors are in close re-


\section*{The Dominion Bank}

Proceedings of the Thirty-minth Annual General Meeting of the Shareholders


Your directors have pleasure in reporting that since the affairs of the Bank
were hast placed before you at the annual meeting
 ness, as is evidenced by the statement sublopment
During a considerable period of the year
During a considerable period of the year some diffculty was experienced
fully employing the Bank's funds at remunerative proving trade conilitions, and tho tharvustrative rates, but, as a result of im-
for legktimate banking accommmodation excellent crop, the demand to oxpeet a prosperous current year.
Fonllowing that increased, and there is every
reason Following the policy of conservative extension, new Branches have been es-
tablshed in important Western oenters, and at other points in Canadia wheres.



 Thes Rranch hat Linwood, Ontario, was closed in March last.
Desirabe sites have been purchneed in Calkury

 erect sultable buildings on theses properties at
The new office build ings in Windsor
cupied in 1910 .
S1 The authorized capital stock of the bank at this


 The directors, as is customary, have verifed the Cash Assets, Securities and
 uditing of all Foreikn Acroent checked, and found to bo correct, int inclucing the he vear. The thunks of the shareholders were


\(\qquad\)

Notes in Circulation
\begin{tabular}{|c|c|c|c|}
\hline \multicolumn{4}{|l|}{\multirow[t]{3}{*}{s bearing interest (including interest accr}} \\
\hline & & & \\
\hline & & & \\
\hline
\end{tabular} .... \(\% 7,052,129.04\) \& \(3,585,994,0\). Deposits bearing interest (including interest acorued Deprosits by other Banks in Canada........
Balances due to Banks in foreign Total liabilities to the public
Capital stock paid up .........
Capital stock paid up ...................
Reserve Fund .and
Balance of Profits carried forward Invidend No. 109, payable 3r Former Dividends unclaime
Reserved for Rehate
\(\qquad\) 1910.

Reserved for Rebaté on Bills Discounted, Exchange, et
Specie .........................................ASSETS.


or Colonial Public Securities other than Canadian
Railway and other Bonds, Debentures an Stocks.......
Loans on call in Canada, secured by Stocks and Bonds
Loans on call in Canada, secured by Stocks and Bonds
Loans on call in the United States, secured by Stocks
and Bonds
Bills Discounted and Advances Current \(\qquad\) Deposited with Dominion Government for
Note Circulation
Loans to other Banks in Canada, secured Overdue debts (estimated Canada, socured
Ress provided o
Real Fstate, other than Bank Premises Real Fstate
Mortgages Mortgages .....
Bank Premises



\section*{\(\stackrel{\text { 5,556,646.98 }}{ }\)}
\(\stackrel{ }{\$ 58,957,038.98}\)
- \(1,446,399.94\) \(3,942,783.75\)
\(2,938,025.60\) \(2,938,025.60\)
\(642,736.62\)
1,592558

10,562,484.65
383,572.56
\(746,817.08\)
4.99278395
\(4,992,733.95\)
\(3,407,124.23\)
- 2,000,000.00
\$34,815,943 \(\$ 22,042,232.42\)
180,000.00
\(180,000.00\)
\(429,229.72\)
43.35984
\(43,359.84\)
\(118,225.99\)
\(118,225.99\)
\(87,008.97\)
\(1,300,000.00\)
\(11,038.70\)
\(\stackrel{-}{86,9,957,088,98}\)
1 Manager.


Send \(2^{4}\) Stamp \& Get
Handsome Calendar
\begin{tabular}{|c|}
\hline Would you like a calendar handsom enough to hang up in your parlor? Such a one is our 1910 Calendar. The picture entitled "Homeward Bound" is a typical farm scene, done in eight beautiful colors has ever been produced in a calendar. We ask you to pay 2 cents postage, simply as a proof that you value a picture of real artistic merit. As there is always an enormous demand each year for our calreaching yours may be a few days late in looked. The sooner you fill out and send the coupon, the earlier the calendar will dress distinctly sure to write your full-ad- \\
\hline OOStiowood cort \\
\hline
\end{tabular}



THE FARMER'S ADVOCATE
Galvanized Rust-Proof-
But Won't Scale
 Entromo wathe charwe in Camad





 Yoo arit treet Zinity thand par

Cleaned Three Times





Make Our \(\mathrm{O}_{\mathrm{wn}}\) Wire

 con buy.



BUY THE EASIER-RUNNING
 solidity and stiffness necessary to pack
 running roller. It is simple in co
 struction. Nothing to get out of orde
the "Bissell" bas no center bearing With a center bearing it's impossible to keep out the dirt. Dirt causes frit
tion-hard tunning - and it's only tion- -hard running-and it's only a matter or time until the slaft is badly cu
The "Bissell" has large, smooth, polished Roller dameter, which causes easy running. And as the axie revolves with drums, friction is reduced to the minimum, and oiling is hardly nocesthe There is no squeaking, cutting and grinding about the "Bissell." Becaue
it is easier-unning than with a hardd-running roller, which drags the life out of the thorses a day diftely
T. E. BISSELL COMPANY, LIMITED

ELORA, ONTARIO

february 3. 1910 'THE FARMER'S ADVOCATE.

\section*{Money to Loan}
on Mortgages of Real Estate at Current Rates All Business Strictly Confidential Liberal Terms of Repayment

\section*{Loans Completed Quickly}

\section*{Expenses Moderate}

Full information gladly given


Had a Bad Cough FOR A NUMBER OT YEARS WAS AFRAID IT WOULD TURN INTO

\section*{Consumption.}

Too much stress cannot be laid on the fact that when a person catches cold it must be attended to immediately or Thousands have filled
grave through neglect.
Grave through neglect.
Never Neglect a Cough or Cold, it can have but one result. It leaves th \(t+h+t+1\) Mrs. A.E.Brown,
 of
Consumption. had a a very ba into consumption. afraid would tur iemedies but only received temporary re-
reat many
lief until I lief until 1 got a bottle of Dr. Wood' borway my cough wand arter taking thed
bithout a bottle of neve without a bottle of Norway Pine Syrup,'
Dr, Wood's Norway Pine .Syrup is the Dr, Wood's Norway Pine. Syrup is the
medicine you need. It stritees ot the
foundation of all throst and Plandation of all throat and lung com-
plaints, relieving or ouring all Coughs,
Cords, Bronchitis, Asthma Throat, etc., and preventing Pneumonia and Consumption.
So great has been the sucoess of this
wonderful remedy, it is only natural that
numerous peren numerous persons have tried to imitate it. Don't be imposed upon by taking
anything but "Dr. Wood's." Put up in anything but "Dr. Wood's." Put up in
a yellow wrapper; three pine trees the a yelow wrapper; three p.
trade mark; price 25 cents.
Manufactured only by The T. Milbure
Co., Limited, Toronto, Ont.
Wednesday, February 16, 1910
AT SUNNY ACRES FARM, SITUATED THREE MILES EAST OF OAKWOOD, AND FIVE MILES WEST OF LINDSAY
Stn., G. T. R., on morning of sale. Morning train from north will be met Cambray Stn., G. T. R. The herd consists of several potular families and local shows. and some of them, if fitted, would make good material for any
show. Three fourths of the number are eligible tor American regiitralion show. Three.fourths of the number are eligible tor American regiviralion.
Write for catalogue, and remember the date 1.30 sharp, Wednesday,
February bearing 5 per cent. per annum.
geo. jackson, Wim. Chailion \& Soll,
0akwood,
Ontario.

DISPERSION SALE
40 Head Holstein - Friesian Cattle AT MADOC, MARCH 25th, 1910,

SEED POTATOES
A Change of Seed is Always Advantageous.
W. P. NILES, WELLINGTON, ONTARIO Grower of Seed Peas. Beans, Potatoes, Oats and Barley


\section*{Nitrate of Soda} NITRATE AGENCIES CO. California........ 522 Benimson Blook, Los Angeles Georria.
Illinois... \(=-2=\) Virginia.....
Washington
Canada
Washing
Canada
Cuba


STOHE AND STUMP PULLERS
Can raise, carryy stonese, and e atily put them into NEW PATENT SNOW PLOW so constructed as to be able to dig roads when
necesasy, and to plow and sink them when snow
is melting. For full particulars writem A. LEMIRE, WOTTON, QUEBEC. DAN PATGH 1:55



IT COST \$2700,00 TO HAYE IT TAKEN AND REPRODUCED, IHIS THE LATEST HORSE SENSATION AND GREATEST TRIUMPH
It is a new invention that you can carry in I want to assure you that it your pocket and show your friends instantly in want to assure you that it is the most sucday or night, either once or a hundred times cessful moving picture of ever taken of a world and without a machine, curtain or light. It is If you love a great honderful burst of speed. the most attractive novelty and most valuable to see him in thrilling motion want to be able Dan Patch. Souvenir ever invented and shows every motion of Dan Patch 1:55 in pacing one of his world record miles and absolutely true to life. time as longethris you live be sure and act any remarkable offer before they are accept my reserve the right to stop sending these moving pictures when \(2,500,000\) have been mailed
The original photographic film contains

\section*{2400 MOVING RACE PICTURES OF DAN PATCH 1:55} and every one of these pictures shows the King tiful woolen blanket over him to prevent catch on the track and actually saw the mighty Dan track before the you can see him walk up the Patch \(1: 55\) in one of his thrilling speedty Dan tions for a full mile. Just think of it ! 2400 moving pictures taken of Dan in one minute and fifty-five seconds means 21 pictures taken for every second all of the way around the en tire mile track from the back seat of a high power automobile.
driver know that he is ready his head to let his driver know that he is ready and then you can watch every motion of his legs as he flies
through the air with his tremend 29 feet. As a study of horse motion atride of is better than if you saw the actual speed mis because you can see Dan Patch right before you for every foot of the entire mile and not a single motion of his legs, body or head can escape you. You can see his thrilling finish as he strains every nerve and muscle to reach the wire in record breaking time, you can see his driver dismount and look at his watch while thousands of people crowd around, you can crowds, uncheck Dan and then throw a beau track before the madly cheering multitud of the fastest harness horse in the world is shown, people involuntarily call out "Come on ing - Come on Dan." This marvelous mov is the most realistic and thrilling a great mile ever saw. We have taken a part picture you wonderful and sensational pictures and mad them into a newly invented pocket moving pie ture that you can easily carry with you in your pocket and show to your friends at any time day or night. It does not need a machine it loes not need a curtain and it does not need a once It is all ready to show instantly, either sensation wherever times and creates a world wherever shown. If you admire extremely frampion who has gone more extremely fast miles than all of the ved then I am sure you wiil write mever day for one of my wonderful me toDan Patch \(1: 55\). THIS MOVINO PIO PREPAID, IF YOU URE WILL BE MAILED TO YOU ABSOLUTELY FREE, WITH POSTAOE REOTLY ANSWER THE THREE OUESTIONS OR POULTRY RAISER AND IF YOUC CORIst. In what paper did you see my Moving Picture Offer ?
 I will not mail this wonderful moving picturd of Dan Patch \(1: 55\) free unless you are a Farmer, Stockowner or Poultry Raiser and
unless you correctly answer these three questions.

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SOMETHING no thoughtful farmer can afford to be without at least
ONE, if he owns one pair of horses, or TWO if he owns more. Now, why?


 Eollar, but when he gets sore shoulders it takeses more than one day to to cure bime
SOLD BY OVER 5,000 HARNESS DEALERS.

 to the other. No pressure on top of the neck. No hoo sweat pads to chate
the horse. NO chokiner shourses on ochoking on going up hill No sweenied horeses, and NO sore
shoulers
Ias' is adiustable to any horse from 161026 inches, and is


The Whipple Horse Collar Co., Limited, hamilton, canada.

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Just landed, ages from 2 to 5 years old.
A number of them are premium horses Several are over the ton, or will make it.
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Baron's Pride. All are for sale. Prices
are reasonable. Intending purchasers will find it to their interest to to see these
horses before purchasing. Farm two horses before purchasing. Farm two
miles from the end of street-car line
0. SORBY, Guelph, Ont.

20 Imp. Percheron Stallions 20
 I to 5 years of apertation of 20 Percheron in our stallions, from
ton in weight. Big, stylish, choke-full of tap to over a and faultess movers. Prizewinners among them, Thality, HAMILTON \& HAWTHORNE, Simeoe

stock. - vandon Horse Exchange




Clydesdales and Percherons
 J.B. Hogate, Weston, Ont., \& Brandon, Man.
T. H. HASSARD'S NEW IMPORTATION!


Clydesdale Stallions and Fillies
 Imported Clydestales Inter have hatdy landed an impor

QUEStIONS AND answers. Veterinary

SWollen legs.
 healed up, but are still swollen. TTh
seleling subsides someme whyn she is exer
cised, but reappears.
The other leg in Cised, Dut reappears. The other leg is
quite sore, and discharges a waterery fuld
Ans-Some horses are predisposed t,
this condition, and especially somose mares this condition, and especially some mar
when premant.
rotive a solution of rosive sublimate 30 grains to a quart of
water, and rub this well into the tho leg that still discharges.
daily dally. \(\begin{gathered}\text { Hand-rub, and bandage the other } \\ \text { legs. } \\ \text { As she is in foal, it will not be }\end{gathered}\)
ais.

 bran,
oats.
give
\(\qquad\)
\(\qquad\)
Miscellaneous
- a dangerous ditch. in our is tursge ditch on a certain
It tormerly was
Government drain, but was made ans an min



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trade topic
thatanding the prout flow
|I Gured My Rupture
I Will Show You How To Cure Yours FREE!


 FIIl out

Free Rupture-Cure Coupon capt. w. a. collumes.
 New Discovery for the Cure of Rupture. Name.e.
Adares.

Don't Have a Blind One | Womderful
"M/SIO"



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Mr. A. J. Hickman, Court Lodge, Egerton, Kent, England, Exports Pedigree Live Stock of Every
Descriptlon to all Parts of the World During the spping month the export of horses of
the light apd beavy breds w.il be a specialty.
Write tor prices. terms and references
Hereford Bulls! 2 YEARLINGS, in fine order; good \(\begin{aligned} & \text { individuals and from prize stock. }\end{aligned}\) H D. Smith, Hamilton, Ont. Homestead Aberdeen-Angus

(1)
 Wam ische, Sebringville, On

ABERDEEN - ANGUS WALTER HALL, Washington, Oat, THE "MAPLES" HEREFORDS
 W. H. HUNTER, Balmedie Polled Angus and Oxtord Domp

 Aberdeen-Angus Cattle \(\begin{gathered}- \text { Siock all ages } \\ \text { and } \\ \text { both seeses, }\end{gathered}\) ENOREW DINSMORE, "Gricese. Apply to
Clange" Farm JOHN GARDHOUSE \& SONS



 hugh thonson. Boas st hans

Rupture
pu How To FREE! Noul har fone
 mall 1 to mot bexery
re Coupon so Cure of Rupurue
 ALL KINDS WANTED.

C. H. ROGERS, WALKERTON, CAN.


QUESTIONS AND ANSWERS. Miscellaneous.

\section*{SCHOOL SITE}

When a schoolhouse is not in the center to have it moved to the center, or do payers? OLD subsCRIbER.
Ans.-If it be really necessary to change the school site, the trustees should select
the new location, and then call a special weeting of the ratepayers to consider same, and no site can legally be adopted
without the consent of a majority of such meeting.
RHEUMATISM IN PIGS. A choice litter of pigs did splendidly
until four month until four months, when they developed
very stiff and swollen joints on both hind nd fore legs. The pigs are in good
eealth, and feel well, except for the very
ainful joints. paimul joints. I have other pigs in the
same pen, that got exactly the same feed and treatment as thesec, which are o. K.
They have been stiff for a month and are growing some. Their bed has
been dry, and have never Ans.-This trouble is generally diag-
nosed as articular nosed as articular rheumatism, and at-
tributed to damp sleeping quarters, or to overfeeding with rich, concentrated food,
but it may occur in pigs that are well cared for and judiciously fed. Dry quarrevention. Salicylate of soda is the cost useful drug to give in this ailment.
The dose is 20 grains in feed, or drench, three times a day. The applica lected joints may be helpful, or a lini-
ment made of 4 ounces alcol.ol, 1 ounce
oil of turpentine, 4 drams camphor, and EFDING TWICE - COVERING GRASS SEED-MIXED GRAIN 1. You advocate feeding cattle in win-
ter twice, rather than three times in the 24 hours. What would be the most prof
itable division of the 24 hours for watering, in the event of water not being 2. You advocate the sowing of clover
timothy, and alfalfa, for meadow or pas into the ground with the ordinary seed
drill, and you would the say, half the requisite amount with With the hand or the hand seeder. What
is the treatment the ground? 3. If you had three acres of land which
would be suitable in spring for either buckwheat or a mixture of peas and oats,
which would be the more profitable to
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3. Peas and oats. This mixture will
roduce a more valuable crop than buck-
wheat, and of grain more nssful

\section*{Was Troubled With Dyspepsia.}

For Years Could Get No Relief Until She Tried
Burdock Blood Bitters.
\(\rightarrow\) Can Eat + Dickenson, Benton Can Eat
\&
Anything
Now.
Now. writes:
have used Burdoo Now.
Nave used Burdock
Bitters and such relief in give spepsia and stomach troubles. I wa troubled for a number of years. with dyspepsia and could get no relief until
tried Burdock Blood Bitters. three bottles and became cured and I can now eat anything without it hurting me.
I will highly recommend it to all who aro troubled with stomach trouble."
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and all diseases arising from this cause

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Shorthorn Cattle

 good heiters in nice cond, tion. All reds or good roans.
J. T. GIBSO N, DENFIELD. ONT Geo. Amos \& Sons, Moffat, Ont


 Farm II Miles East of Guelph. C P. R Scotch Shorthorns
 and wa did wity tow dio John Miller, Brougham P. O., Ontarlo.
iusa-Maplo Lodga Stock Furim-1000

Lureleesters of frret quality for tale. Cas
A. W. SMITH, Maple Leace Pre P.O., Opterio.

SPRINGBROOK \(\begin{gathered}\text { For sale : } \\ 6 \text {, red and } \\ 2 \text { good bulls. } \\ 2 \text { roan, some }\end{gathered}\) SHORTHORNS sired by Royal SoverS. Camphell, Aberdeenshire. Scotiand. Most of them . \& W. Russell. Richmond Hill, Ont. Spring Valley Shorthorns. Herd headed by Clipper Chief (imp.) Cuteso-
H633). If you want to get an imported bull, or a
 KYLE BROS., AYR P. O., ont. HIGH-CLASS SHORTHORNS
 if y by that sire of champions, Mildred's Roral
want a abow bull or hefer, write me. GEO. GIER GRAND YALLEY P PO. . AND STA.,

\section*{Geo. D. Fletcher, Blakham P,O, Ont:} horn bulls. 10.13 and 18 ,ononthe oldi, wick booth

SHORTHORNS FOR BALE. Choice young



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will do this- is doing it wherever given, because it makes grain, hay, roughage - whatever the cow eats-at once available to pass into the brain, hay, roughage
of a larger milk secretion. The basis quantity of ration, is known among stock raisers as "THE DR H Hess I than to is practical for all farm animals. Horses work better, steers fat quicker, an
hogs show greatest development hogs show greatest development when they receive Dr. Hess Stock quicker, and saeep and
a day in small



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In Shorthorns, 53 head to select
trom: 20 calves (13 bulls and
 ear-old heifers, and the ba
cows from fears up. No
wolds or Berkshires to offer Chas. E. Bonnycastle, Campbelliford, Ont. Maple Grange Shorthorns






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 High-class Scotch Shorthorns

 Shorthorns and Lelcesters. and 2 yeaz-ord hyoung bulls, ani

275 BURLINGTON SHORTHORNS 275 3 Choice Imported Scotch Shorthorn Bulls-yearlings. 10 Buils, 9 to 16 months old red-ant extra sire. 30 Choice Young Cows and Heifers-mostly sire

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SHORTHORN BULLS
can supply females of all ages. Farms close to Burlington Jct... G. T. Re W. G. PETTIT \& SONS, FREEMAN, ONT
\(\qquad\) Imp. Scotch Shorthorns -When
 ornes, be sure tolook me up. Young fulle for for fol
ervice, ad rigb and females all ages; bred in the purple Maple Leaf Shires, Shorthorns, Hampshire Hoos



30 HEIFERS AND 29 BULLS

H. CARGILL \& SON, CARGILL, ONT.

\section*{H. SMITH}

\section*{EXETER,}

SALEM SHORTHORNS! Youk bumb nad heite seitit


\section*{Meadow Lawn Shopthorns}

\section*{}

VALEE HOME SHORTHORNS AND BERKSHIRES

\section*{Please Mention this Paper,}

Miscella ANSWERS
SCHOOLHOUSE PLANS. have been requested by the of S. S. No. 11, East York, to write out tor plans for new schoolhouse, cost
no to exceed \(\$ 2,500\), or possibly \(\$ 3,000\) \(\begin{array}{ll}\text { Don. } & \text { HENRY ELLIOTT. }\end{array}\) cation has just recentlỳ issued a valutur booklet of about 120 pages, giving about
three dozen plans for rural three dozen plans for rural school build
ings, ranging from one to three-roomed
schools. valuable matter regarding contains much
tion and construe tion and equipment of school buildingg. The booklet in question is entitled "Plans
tor Rural School Buildings," and can, মo
doubt, be obtained fice plication to the Drepartment of Edvop tion, Normal School, Toronto. of Educe FOWLS DYING. pigs? Our henhouse is above pigpen
pat the fowls are dywing good feed, mixed graing. I give lots of of
water, lots of mita poor and of grit, and still thoed, fresh
loor ghould hens have ground
lo Ans.-We do not think MRS. W. S. disadvantageous to the birds to inhabit cess to the earth when there is havything whe scratched or picked up. of course,
are over a pigpen, special tight, and also well covered with litter
likemise the toll Ikewise, the walls should be mith litter.
y using tar paper mand ap. U Ulars paper and lathing, or whip he fluff would prove to be wing and
case. we we among them.ectious or contagious disease would suggest that you send a dead forl with full particulars as to conditions and ment. 1 s. A the Bacteriological Depart-

A SCHOOL TREASURER
\(\qquad\) surplus of aboution, where they have a
the mon on hand, to use
the mh in own private business, or bank. and not give account of the in2. If it is not legal, what is the best
thing to do in a case like that ?
\(\qquad\) orn him of the a amount of a intaremement or
rime the (

Hig Mith




TORONTO EVGRAVING company hincrep desiculen mustratons fmaravias


THE GOLDEN LAD BULL,
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Just Landed with 50 Head CHOICE AYRSHIRES


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\section*{AYRSHIRES AND YORKSHIRES}

\(\qquad\)
ALEX. HUME \& CO.. MFNIE, ONT


 all agon A An ont ooke. Hector Gordon, Howick, Quebec ald
 \(\xrightarrow{\text { Ne old }}\) DrMENT Clopplison's Corners. Ont

SAL EALEIGH GRANGE A YRSHIRES!


QUESTIONS AND ANSWERS Miscellaneous.
grain mixtures I am advised to sow barley, oata ad
spring wheat for a good mixed crown spring wheat for a good mixed crop. 1
think I have oats and bartey think I have oats and barley that will
come on and ripen fairly well. tell me what kind of spring wheat would ripen with them? Some say the wound
whent it tran Wheat is rather late. Our oato Gomp
Bumper King, trom Rennie \& Co, ronto, and Mandscheuri barley., Thai
proportion of each should be sown What Ans,-Judging by Prof. Zavitz's. exper.
 est yield
has derive our own of
well, we \(\qquad\) Value of peccount of over barley, greater feats and
perior condition in whe land. If wheat were to be incluy
the barley and oats, we could
nothing better yields well, and ripens practically, am anich
ns the oone
as kinds. The best vielding portions of grain in the send mixtures aro,
if peas and oats are used, one bushel of
oats and one bushel of


FEEDING VALUE OF CORN EN VALUE FIELD-CUREDVALUE OF FODDERS-
PROTECTION OF STAVE SILO.
\(\qquad\) with the same stood up, in the field till
winter, and fed in this and 2. What is the value of a ton of silage.
compared with a ton of clover hay, peas
and oots cut green, or fall rye cut grean?
3. will hetter satisfaction, thy being enclosed? Ans.-1. From a chemical standpoint, tween the two metheds of preservation,
 practice, have almost, if not quik
alway indicated a considerable adva
age to be possessed by silage, espec age to be possessed ay siliage, especial
in milk production. Whether this co
sists wholly in its surcculence ar ly in that and partially ince, its or partial
virtue, we do noting
notetend to say. Probathy both factors count.
2. This comparison is between sub-
stances so different in their nature thal an estimate of values would be con-
tingent upon the knowledge of what each Was to he fed with, and even then could be
only very approximate. For instance, if
cantule were receiving ronto of silage would reciving roots, the of so mudition
wor mad-
vantage as if the stock were getting no
other surculent feed. The best we can
on answering this question is to sub-
 in ench feed. In the data before us, we
do not readily find the analysis of cured
oat and phan hay, nor of rye hay, but we
give the analysis of these fodders grean,
nid alsol the analysis of green clover, to
nonvey a rough idea of the effect of dry.
ing on the content of dry matter and

號U


Easy to Wear. Cures While You Sleep. Never Fails.
 I have the grandest invention of the age for weak men; the surest and easiest cure for all nervous and chronic diseases. Its wonderful power
is directed to the ssat of the nervous system, through which its vitalized strencth penctrates int
and
 It is a quick nad lasting cure for all Nervous Debility, Weakness, Varicocele, Rheumatism, Pains in the Back and Hips (Sciatica), Lumbago,
Constipation, Indigestion, Weak Kidneys, Failing of Memory, and all evidencees of hreakingel
 report to youn Iot high time that \(I\) should
 My sore back has not troubled me sinco the frrst
time that I buckled my Belt around my waist. and my appetite is isy very goert. aroun my waist,
which hung very low is now testicle HMCN all right. lesticle

 six weeks' use of it mat to feel old, but abou new man. I did not write you then, because \(I\) wanted to be sure that there would be no bad after-effects or any reaction. I can now con-
scientiously recommend it to any one who meeds building up. Accept my sincere thanks for what your Belt has done for sin

\section*{}


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Hampshire Down Sheep.
SPLENDID MUTTON, GOOD WOOL, GREAT WEIGHT

WONDERPULLY EARLY MATURITY, hardiness of constitution, adapted all dimates, and in quality of
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Champion against ALL breeds at the
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Full information of
Secretary, Hampshire Down Sheep Breeders' Assoclation, salisbury, Encland.

A PERFECT HOG FOOD
\[
\begin{aligned}
& \text { You can save time and } \\
& \text { money by feeding }
\end{aligned}
\]

Imperial Hog Food
\[
\begin{aligned}
& \text { The only exclusive hog } \\
& \text { food on the market. Once }
\end{aligned}
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\[
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& \text { food on the market. Once } \\
& \text { used al ways used. Write }
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& \text { used alway } \\
& \text { for booklet. }
\end{aligned}
\]

The Imperial Stock Food Co.
FARNHAM OXFORD DOWNS


 Fairview's Appreciation. Kindy Ho Our Many Customers:

 Hozs.-Preenonferisgleep, He vorkshir
 Man calls his wife his
Rut that's a sort of bluff,
He can't deceive himealf

THE FARMER'S ADVOCATE.
QUESTIONS AND ANSWERS Miscellaneous.

Water supply-effect of WATER SUPPLY-EFFECT
FROST ON MORTAR. We have a well at house, 22 feet deep.
in which we have a sychon pipe, 2 -inch galvanized iron, used only in summer, which rises from the water to the surface of the ground, and then runs along above
ground
gown she ground down a slope for about 600 reet
to a point on the brow of a hill 27 teet below the ground level at the house. At this point the water will rise 10 feet in
the pipe, and fill a dairy pail in 70 see onds. The mater in the well stands trom
ond feet to o 18 teent 1. Can water be brought from well th barn, which is five feet below level at
house ? 2. Stone wall, built 1 1st of November
nast, but not pointed yet.
The mortar seems to bot sifting out quite a a ortar
lot by
freering.
Do you think the wall will be
 By windmill elther at nonse or a well
that could be readily done.
20 teat deop 20 feet deep could be dug at barn into
which syphon pipe could be led to
denth
don which
deph
hand. 2. Probably it will, but nothing cortain can be
out in spring
emmer. 1. Is emmer suitabe. for horse feed
alone \(?\) It mixed with oots, what proatone ir mixed with oats, what pro-
portion woul oourecoment
2. What proportion oof emmer would you recommend in a mixture of pous.
oats and barley, for tattening cattle and
milch cows? Ans. Emmer has not been used in this
country in very large quantities for teed ing purposes. The composition is as
follows

\(\qquad\)
\(\qquad\)
 not know of any divestion perperiments
having bren made with this material. nnd
cand having bern made with this material, and
cannot show the comparison of dikestible The south Dakota Experinent Station
carried on a number of orperiments with
this food. They report results from toch


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MAPLE VILLA OXFORDS AND YORKSHIRES,



 .o.. Ont.. Aumora Stution
BHROPSHIRE W. b. Monk ctath.



\section*{Large White Yorkshires Hilton Stock Farm Holsteme}

\(\qquad\)
\(\qquad\) New castle Herd of Tams and at very reasonable prices., bsows sired by by
Cholderton Golden Sceret bed to farrow
Feb. and March,

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2

PINE GROVE YORKSHIRES
 Improved CHESTER WHITES DUROC - JERSEY SWII


Young sows of breeding
age. Somearready bred.
Also choice young
pig

 \begin{tabular}{l} 
SONS, HARWICH, ONT. \\
\hline OHIO IMPROVED COW STER WHIES
\end{tabular}
 sey bulls. Chas. E. Rogers, Ihames Valley
Farm, Dorchester, On . Express charges Prepaid. Pedirrees, and anfo

\section*{20 N N}

MONKLAND YORKSHIRE PINE GROVE BERKSHIRES



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Oshawa-shingled roofs are guaranteed for twenty-five years. No other roofing is guaranteed for five minutes.


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square for ordinary wood shingles. They will
coost you more to lay, because it is anicy will simple job to roof with Oshawasterel shingles and it is no easy joh to lay woolen ohing ge right. ever yar or two. Irobathy it will leak from the cond of than years, wit the monat.


This is the Roof That Really Protects
Oshawa-shingled roofs are not merely weath er proof roofs. They are fire-proof roofs. They
are wind-tight roofs. They keep buildings cooler in summer and warmer in winter. Shingles is safe against lightning-far mere so than it would be if it fairly bristled with light-
ning rods. ning rods. following the simple, plain dirertions that come with them, and you have a roof that is handsome enough for a city hall and that absolutely protects.
Practica
seamless sheet of tougha-shing gized red steel. is one
a crevice for moisture to get through a crevice for moisture to get through. No way
to set fire to it. No chance for the wind to worry it. Dampness cannot gather on the ander-side of it. It needs no painting. And
you need not worry about it needing and pairs, for twenty-five years at least.
Isn't that kind of a Isn't that kind of a roof the roof for youp costs? Isn't it the only roof you ought to com-
sider? - since it is the only roof of which alt

Get Your Copy of This Free Book
Send your name and address to the nearest Pedlar place. Tell them you IRight
When you have read that book through, you will know more about roofIng than a good many experts know Get it you proors, figures don't expect to do any a it even if you time yet It will put yofring for some whole roofing question on the With the book will
our Guarantee. Study that a ropy of see how fair and square and straisht forward it is. see what positive the tection it gives the man who buys
\begin{tabular}{|c|}
\hline \multirow[t]{12}{*}{\begin{tabular}{l}
Sample Shingle Free \\
WITH the book will come a sample of the Oshawa Shingle itself. It will interest you to study it. You will see the actual construction. You will see that the Pedlar Improved Lock, on all four edges of the shingle, makes it certain that moisture never can get through any OshawaShingled roof. You will see how the Pedlar process of galvanizing drives the zinc right into the steel so it never can flake off. You will be in no doubt about which roofing after you have studied this shingle. \\
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\end{tabular}


I know, of course,
that that some salesman for some other roofing material is liable to tell you there some "catch" about Pedlar's guarantee.
And you can't wonder at his saying so. How else could he meet the great, big, dollars-and-cents value that guarantee has for the man who buys Oshawa Shingles?

But you know right well that a concern cannot stay in business unless it does business strictly on the level. Our business was founded by my father in 1861. To-day this is the biggest factory of the kind in the British Empire. Our capital is a quarter of a million. You can easily find out ou business standing.
So, seriously, do you imagine for a minute we would dare issue a guarantee that wasn't square ?
Take my personal word for it--the Pedlar guarantee is exactly what this advertisement says it is.
Send for a copy of it and see for yourself. You won't doubt its good faith
then. That is certain.

It Will Pay You to
Pedlarize All Your Buildings
"To Podlarize" meens to sheathe your Whoum home with handsome, lasting and side, roof. It meams to , idoe-wals, outagainst cold: against fire: arainst much disease; against repair-bills. Ask ns and we will tell you the whole story. Just ueve apost trard and say: "How athout Pedlarizing my house: State
iwhether whether brick or frame. Write to-day.
16. Address nearest place: 16. Address nearest place:```

