## PAGES

MISSING

## SIMPLICITY, DURABILITY, RELIABILITY

They do not require a high order of mechanical skill to operate, and will work when you want them to. Thoroughly constructed, they wil give satisfa tion to every user, and there are now over 70,000 satisfied users. Write to-day in coupon below for catalogue and copies of testimonials.

MADE IN CANADA.
Thg Canadian Fairbanks Co,,Ltil.
montreal, toronto, st. John, winnipeg, chlgary, vancouver

The Canadian Fairbanks Co., Ltd., 444 St. James St., Montreal
Please send catalogue and copies of testimonials.
Name
dres
ddress

## HOUT TO BUILD A GOOD FENCE



Our new folder on "Erecting Fences" will tell you and if you will
follow the instructions carefully when you are through you will have
a good job. It's full of valuable and interesting information on fence builaing substantial manner. should fail to write for a copy. It

FREE!
In addition there is also a complete and very interesting description the manufacture of fence wire. Persons who
lege of visiting a wire mill will find this article of especial interest. lege It also has an article quoted from a butletin issued by the e. St, Department of Agriculture on the manufacture of concrete fence pos can
showing how posts made of this most useful and durable material can be manufactured at home. Done
for our folder called, "' Erecting Fences." Remember it's iree. Address
THE BANWELL HOXIE WIRE FENCE CO., LTD., Dept. B, Hamilion, Ont.
THE BANWELL HOXI WIME AND HOME MAGAZINE

Invest Now in Land in the Canadian West

Experience has proved that all good land in the Canadian West, located in a good district, and within 20 miles of a railway station, or nearer, is worth at least $\$ 25$ per acre for Home-making. 160 acres of such land will return annually in net receipts as much as 100 acres similarly situated in Ontario, which sells for $\$ 4,000$ to $\$ 8,000$.
We hold the Exclusive Agency for large blocks of selected lands in Western Canada. Prices from
$\$ 8$ to $\$ 25$ per Acre In 1906-1907 we sold over 300,000 acres. We give SPECIAL TERMS to actual mettlerm. Wo allow such to pay for land on the Crop Payment Plan
Industrious, experienced, thrifty men, if they buy from us, are sure to succeed, because we are prepared to assist them in case of emergency, such as loss by fire, frost, loss of stock or sickness. If you are a Tenant Farmer, own your farmwe will assist you If you are a farmer's son, or an and wish to start on your own account, write us.
WE WANT RELIABLE REPRESENTATIVES IN EVERY COUNTY.
Address F. W. HODSON, MANAGER LAND DEPARTMENT Union Trust Company, Limited 174 Bay Street - - - Toronto, Ontario



Let me send you the proof of the big money you can make raising chickens my way



THE IITTLE GIANT CONG-FTE MIXER Beats everything in competition. Can be operated by hand
or power. Send for panpblet No. 14. We make Brick
Machines, Machines, Block Machines, Slll and Lintel Fence Post Moulds, Ornamental Moulds, know your reepre Gonopete Machinary. Let us
LONDON CONCRETE MACHINERY CO 28 Redan St, London, Ont.
Largest exclusive Concrete Machinery Co

# The Farmer's Sdvocate <br> aspersevere ane Succeed" and Yome Magazine 

Vol. xLiIII.
from across the line; also as to the tariff head mder which it comes, and the correctness or otherwise of the price, weights, etc., as repreented for tariff purposes. In short, it was asked, in case the conditions were found to be as believer, that the anti-dumping clause should be
applied. Failing this, the committee believe that applied. Failing this, the committee believe that he schedure of duty shold be incly concludes with a poragron as to the importance of the Cawith a paragraph as to the importance of the caguarding it, and also the interests of Canadian producers, by endeavoring to see that the reputation of our Canadian-grown bacon in Britain is protected from injury by substitution of Americangrown for the genuine Canadian product.
There is no question but that these arguments will commend themselves to the judgment and support of Canadian farmers and the Canadian public generally. The Canadian hacon industry is a peculiar one, catering to a special trade, with a special type of hog, depending lor its development upon the co-operation of our orrn producers and our own packers. Cane dian packing-houses, only market is the Canadian packg-houses, which fix the price. It seems to us the Howoften depressed below that is a matter to be adjusted by competition. The one condition insisted upon is that the packers must take the consequences of their own course. The farmer has only one market; the packer must have only one source of supply , and so long as this state of afiairs is maintained, and the packer made to abide by the restriction of production that naturally follows depression of prices, no reasonable exception can be taken to whatever course his business discretion suggests to him. The one essential is that he may not be allowed to escape the consequences of his own cupidity by importation of cheap American pork. With a fair field and moct, must the matter of hog prices may, and,

EDUCATIONAL MOVEMENTS IN NOVA SCOTIA The pre-eminence of so many Maritime Canadians in statesmanship, literature, and corre sponding walks of life, may in large measure be cation of the people in the Provinces by the sea Man, rather than what we call "the material," has been the great desideratum, until, by the laws of heredity, one might say, it has become al most ingrained in the very it is interesting to As a contribuited States Government report, Nova find, in a Scotia at school for the population of any country in the world ; and, in the report for 1907, of the distinguished Provincial Superintendent of Educa tion, A. H. MacKay, shows an increase of ne the year, and the largest number in the history o the Province, 2,465. There has been a steady and encouraging reduction in the number of va cant schools, but the drain of Nova Scotia con upon the trained teachers male teachers shows a tilues. decrease, although there is an increase in further
the average salary paid them ; but there is a decrease in the salaries of female teachers, which is taken to indicate that trustees generally do not
find them of so much value as male teachers, which suggests, in the report, that a ly for certain schools. A scathing reference
each without the necessary special trining thereor, and to those who exploit the profession as a temporary money-making industry, it being high time, in the interests of
Amid so much that is encouraging in this re Amid so much that is encouraging condition in port, we come upon the anomatas of the inspecisolated situations, reported by one of the inspecsections is resisted, and schoolhouses actually burned down by boorish reactionaries in their opposition to the payment of school rates in sparse-y-settled communities.

A considerable section of the report is devoted to an explanation of the new polioy in Nova Scotia, in regard to physical culture and military drill in the public schools, a former regulation having proved ineffective for lack of trained teachers or instructors. It is now proposed to take of Canada to supply specially-trained instructors at the more important centers of the Province to give a three-weeks' course of instruction to teachers of both sexes, and grant to those competent grade "B," physical training and elementary drill certificates. Male teachers who obtain a grace A matitary schore and take charge of a company of Rifle Cadets, and drill their pupils of High-school Riffe cadets, a grant of $\$ 50$ or $\$ 100$ from the Militia Department. The syllabus of physical exercises in use in British elementary schools is being adopted, which is without the military bias which so seriously damaged the educational value of earlier systems. In so far as the public schools are concerned, it is intended to be physical drill, though given to the teachers primarily by military officers ; and in the High Schools, the Riffe Cadet system will be continued, and teachers oncouraged to take the place of the military-drit sergeant. in the public-school boy is the declared physique and in the High-school boy such a training as will make him useful as an effective re serve as a citizen soldier, in case of necessity, in stead of a professional soldier class. It is claimed that the High-school Cadet, instead of having the " soldiering " idea developed in him, will want no more " soldiering "." "for the fun of it," after three years' rigid drill. It is conended that the proposed system of the militarism ent in canada the dop pater material for of Europe, by preparing better an effective citizen-army, to resist, if need be, the predatory and act as national police and, on the other hand, avoid the extreme of the non-combatant Doukhobor. The need for physical drill, orderly conduct and prompt obedience will at once be conceded as part of the public-school education, and the Nova Scotia experiment will be observed with great interest elsewhere in Can ada, especially because of the natural apprehension that, under direction of military men, a military propaganda might develop; and in the Propince ontario, for example, fear that to interject mil ary features would implorm now being made in other directions.

In view of the suggestion several times urged through "The Farmer's Advocate" upon the Ontario educational authorities, in favor of locating Caction Mr MacKay's reference to the fact that the action Mr. Mackay's reference tolture, in affliation with the Provincial Normal School at Truro, has

THE - ARMER'S ADVOCATE and Home Magazine.
The leading agricultural journal in thb DOMINION.

john weld, managr
Farmer's Advocate
Winnipge, Mand
London (EwaLand) Orficz:
W. W. CHAPMAN, Agent, Mowbray House, Norfolk Street,
London , W. London, W. C., England.
atis farmer's ADVOCATE AND HOME MAGAZINE

 TRRM Sol subcriptio









Mit


-
with this papir should be in reference to any matter connected
individual connected with the paper. as below, and not to any Address-THE FARMER'S ADVOCATE, THE WILliam weld company (Lm

London, Carai
very materially increased the prestige of the lat ter, and teachers trained in the Normal School are becoming increasingly alive to the influence
which can be exerted in the which can be exerted in the schoolroom on the
ideals of the young with respect to the high cultural value of an education which fits people to govern the forces of nature and to transform their surroundings into happy homes, where industry, higher influences to devel and patriotism unite with minds and useful develop strong bodies, healthy ming reports the total attendance at tural College in 1907 as 132 and the Agricul are that when the records of 1908 are complete the number will be increased to almost the 200 mark. Psof. Cumming, judging from the varying attainments of the students coming in from rural sections, suggests that a more comprehensive knowledge on the part of teachers of the various sciences relating to agriculture and allied industries would be desirable.
Special attention is being paid to rural-school improvement, and a few consolidations of small sections are reported. The Macdonald Consolidated School at Middleton was efficiently than during the three preceding years. Four of than during the three preceding years. Four of
the sections which formed part of the original consolidation, and which were situated farthest away from the central schoolhouse, retired at the close of the previous year, and maintained schools
within their own borders. The consolidation existing consists of Middleton and three contiguous schools. In a reference to school-garden work, especialy in connection with urban schools,
Dr. Bagley is qưoted as saying that it marks one of the most promising advances made in present day education.
We find, also, very encouraging references to manual-training and mechanic-science departments.

Sexton at the head of the College in Halifax ocal schools in industrial centers, and coal-mining and engineering schoois, all or which are deep and widespread interest.

A special and most instructive feature of the report is the chapter on " The Trend of EducaGreat Britain and by Mr. MacKay, who visite investigate the subject for the benefit of Nova Scotia. As showing the practical results in put ting a small country upon a sound economic basis by means of a statesmanship policy of education and forest preservation, the case of the Kingdom of Wuerttemberg is cited, which, although only bithout one-third the size of Nova Scotia, and a happy and of its natural advantages, supports as dense through its industries forest in 1904 covered an area of 483,421 acresonly one-tenth the woodland of Nova Scotia-and when all the expenses of maintenance were paid there was a net revenue of $\$ 2,701,587$, and that vithout impairing their value in any way. The industrial and commercial schools of Wuerttemberg give a broad vocational training to boys and the common schools at the end of the compulsory period ( 6 to 14 years) as nearly all do, and have gone to work. A new law, to take effect next year, will make compulsory the maintenance of vocational schools in all localities, where, for youths are employsive ycars, at least for pursuits, and compulsory attendar workmen is also stipulated This little vingdom has the oldest agricultural college in Germany and in a table given there is recorded an attend ance of 946 students in the agricultural schools. Here, surely, are some object lessons for progressive Canada! An impartial inquiry discloses the fact that where the "cultural theory" education has not been allowed to defeat the purpose of vocational training, a profound and uniit pays conviction has gained sway, not only that the people that supremacy in skilled order to give the people that supremacy in skilled labor which and prevent excessive emigration to other coun tries.
Taken all together, the Nova Scotia publio schools report is one of the most suggestive we have had the pleasure of reviewing for a long time, and we trust that its distribution will be effective in promoting an improved system of edur JURISDICTION OF AUTOMOBILE TRAFFIC. An Ontario correspondent raises the questio as to where we should look for regulation
answer is that the jurisdiction lies in the hand of the Provincial Legislature, on which, we must apparent from the following quotation This is Ontario Statutes 1906. Chapter 46 Section which reads
ublic ho motor vehicle shall be run upon any porated village at a greater speed than ten miles an hour, or upon any public highway outside of any city, town or incorporated village at a great-
er speed than fifteen miles an hour er speed than fifteen miles an hour. Provided
that the council of any city, town, township or village may by by-law set apart any public street or highway, or any part thereof, on which motor vehicles may be driven at any higher rate of ing the same, and may pass by-laws for regulat ing and governing the use of any such street or said."
That is to say, the law of 1900 , which is yet in force, prescribed certain general rules applicable all over the Province, fixing rates of speed, and
generally regulating the use of motor vehicles on the highways, except that power was given local nunicipalities to set aside certain roads as speet
latitude for by-laws, is unquestionably the rroper one, To place the control of the traffic prevent entirely and another to pass any brevent entirely and another to pass any barrassments and inconvenience all kinds of eln lead to great confusion. "The Farmer's an cate" believes in strict regulations, but they mus e Provincial application, so that chauffeure may readily inform themselves concerning the law British Province ; anything else would be

As to just what form the law should take, we we still open to suggestions. As already stated we believe in a heavy license fee or road tax raction. In addition, we believe that automobile traffic might advantageously be limited certain highways and to certain hours the day thereon. This may seem hard on unjust to the users of horses, and as the are outnumber the former by perhaps a hundred one, some adequate consideration for their rights and interests is surely no more than fair.

## THE SUMMER - FALLOW QUESTION.

 The success of any prescribed system of farming depends largely upon how it is carried out. an the summer-fallow after perusal of an article Ont., subscriber, who expresses alarm at the creasing prevalence of weeds, quite properly plores the practice pursued , quite properly dedown dirty land to seeding need of thorourh smother them out, urges the questions the practicability of a straight them, year or four-year rotation on the average farm and discusses the advisability of resorting to old practice of summer-fallowing as a means cleaning the land and preparing it to be seeded down. He considers that the average farmer is not so situated that he can advantageously have one-quarter of his farm in hoe crop every yea on whichmends summer-fallowing half the hoed crop. four-course rotation would callOf course, circumstances vary widely, and no one rotation can be laid down for everybody. In general, however, a rotation is practicable or impracticable, according as one thinks it is. On well-managed, up-to-date Ontario farms, a threecourse or four-course rotation is entirely practicable, as we know by our own experience, and it separated localities, where it is frovs, in widelysatisfactory in cleaning the land increasing fer tility, and producing profits th, so is his practice. In the last analysis, it is not so much a question of help, analysis, it situation, as of enterprise, gumption and per

We freely admit that a farm tilled by a feck less tenant is liable to become foul unless summer allowing is occasionally practiced. Certainly seeding down to grass is a poor way to grapple with the situation, except in the case of a few particular species of weeds. Even when tem porarily choked out, the seeds often remain to assert supremacy when next the land is broken. ne season of thorough cultivation in three o kept reasonably clean profitably productive to be in a good state of tilth two-horse corn cultivator, the weeder and the scuffler, this cultivation may be given aln the well to a field under corn, roots or potatoes as a bare fallow. In a properly-cultivater ouly uly may be easily despatched with the hoe.
The main objection raised by our correspondent that the majority of farmurs cannot plant s that the majority of farmers cannot plant one- age hundred-acre farm has twenty acres that
should te in woodland. should te in woodland, permanent pasture or al-
falfa. That leaves eighty for rotation. A -n-cessary, with a piece of soiling crop orented
acres for corn. The majority of Ontario farmers would probably find it profitable to grow about that much corn every year, and if one employs modern methods of planting, cultivating and han-ding-ensiling the greater portion of it, and
husking the rest, or feeding it whole-the labor entailed will be handsomely repaid. In fact, a system of short rotation, with a large quantity of feed raised and fed to stock in winter, is the very method calculated to solve the labor problem, by providing remunerative work all the year This
This country should grow far more corn. Next to clover and alfalfa, it is easily our most profitoo many of us still have the " corn-patch "idea. earnest. Some men are already doing sor, and as a general thing, they are the ones who are making the money. When a farmer has from onesixth to one-fifth of his arable land in corn, there is no trouble in arranging a short-course rotation. Meantime, those who are not in a position to grow corn largely may advantageously fill out this section with peas

A $\eta$ indifferent farmer may have to summer-fallow; a good one should set his face resolutely
against it. Bare-fallowing, it is true, cleans the land if it is properly attended to, and prepares for a good crop of wheat, as well as a successful seeding of clover, by rendering available much soil fertility, but, on the other hand, it dissipates a large amount of humus, exposes a great deal of
the liberated soluble fertility to loss by leaching, thereby tending ultimately to soil impoverishment, involves considerable labor, and deprives
us of a season's return from the fallowed area. us of a season's return from the fallowed area.
Summer-fallowing is at the best a necessary Summer-fallowing is at the best a ne
evil. Let us bend our efforts to avoid it

AUTOMOBILES AND DENATURED ALCOHOL
I have noticed in your columns numerous on our country roads, and while I agree with most of the sentiments therein expressed, it might be well for us farmers to take a look into the near
future, and see what in all probability lies in future, and see what in all probability lies in
store for us. Some of the principal objections store for us. Some of the principal owiec
raised to the automobile are the following :
First.-The rapid speed at which they travel
causes the dust to rise from the suction produced and the air rushing in, which, especially on stone roads, is injurious, having a tendency the road. The great clouds of dust they create, visible at times for over a mile, is none of the most welcome
visitors when one is travelling along our highvisitors when one is travelling along our high-
ways. But in this respect, judging from the ways. But in this respect, julging from the machines, I have fully come to the conclusion that they are getting their just share. If some man could devise a cheap means of overcoming the to
objection, he would prove a great benefactor to objection, he wounanity. In California, where crude petroleum is very cheap, all trolley and steam roads, as wel as all the principal highways, are oiled, which
overcomes this nuisance. Second. -The most serious objection is the caution in passing vehicles on the road, but rush by at breakneck speed, thus frightening the horses serious accidents: One might almost infer, from the tone of some of your correspondents, that any one driving a motor car, or even riding in one was almost a maniac. That almost a manu-
usually good temper. While I am not a usually good temper. While facturer of these "darn devils," as they are some times vulgarly called, and do not even own one, I enjoy a ride in one occasionally. Because there are reckless drivers, I do not whe exercise due pre
fellows abused and insulted, who fellows abused and insulted, the horses past the machine. Such men may be out for pleasure, or the benefit of their health,
on business, possibly a doctor attending to an on business, possibly a doctor atto see them in
urgent call, and $I$ do not like to cluded along with the other class, whom I woul
like to see lesson. It is true the country roads were made by the farmers for the farmers; so, too, the
streets in the towns and cities were made by the streets in the towns and cities were their use; but country people are privileged to use them, and
would hardly be fair on our part to banish all the autos from the country roads. The autos are their only means of getting out into the coun-
try, many not being able to keep horses and carriages.
Accidents occasionally occur by reckless drivAccidents occasionally occur by reckess and
ing of horses, and we must expect that now then accidents will occur by the automobile. even
with the utmost precaution, and in spite of any
legislation that may be enacted. Most horses soon get accustomed to them, and if people would only take a little time and gently lead the horse
up to this horrid machine, introduce him to it up to this horrid machine, introduce him to it
and explain its mechanism, there would be far fewer accidents. It is better to do that, since the auto has come to stay with us! In the meantime,, till matters get adjusted, we must
have patience-" patience endureth all things." have patience-"patience endureth all things.
Not many years since, when the bicycle rage started, a certain New England church passed a law that any of its members riding a wheel on Sunday would be expelled from church member-
ship ; then, the bicycle was only used for pleas ship; then, the bicycle was only used for pleas
ure. That same church, a few years later, pro vided quarters for the bicycles and placed a man in charge; then the wheel was used as a mean I am looking forward to the time-not far dis tant-when the automobile, in one way or an-
other, will be among the farmer's best friends. other, will be among the farmer's best friends.
Already, in London, England, the motor car has vantage. In parts of Fingland, to a decided adand even in America, the motor cars are making regular runs on highways, picking up passenger
anywhere, the same as trolley cars, and it will not be many years before we here in Canada wil see these cars on all our principal roads. Will
not that be a great convenience to the farmers not that be a great convenience to the farmers who may, unfortunately, not be located near a
trolley line? Then, too, there will be freight motors, that will carry our produce to the market or the railway station more cheaply than the farmer can haul it. Our supplies from town
will be delivered in same way. You can give your will be delivered in same way. 'phone-every farm er will have one-and have your order delivered in
time for dinner, just as city people do. Already, ordinary horseless buggies and carriages ar made, and in a few years more we may expect to
see motors adjusted to farmers' buggies and car
can afford it, will have his horses and carriages. The question of cheaper fuel, or something to unpleasant odor from passing autos-gasoline-is at our very door. We country people are very much annoyed by the filthy stench. I presume the city people don't mind it so much, being accustomed sense of smell.
I wish to draw attention to the matter of cheaper fuel-denatured alcohol. The farmers of Canade must do as they did in the United that they give us free demand from our Government that they give us free
lonatured alcohol. The distillers, coal and coal fil men, will fight such a movement as they did there. There are at present thousands of dollar lost annually to the farmers of Canada, especially as worthless or rotten potatoes and fruits of all kinds, that could be utilized in the manufacture of denatured alcohol. This could be used for ighting, heating, running motor cars and ma-
chinery on the farm. It gives a clear, soft, white ight, similar to acetylene gas, and has the ad vantage of coal oil in not having any odor, nor her of an explosion.
If Canadian farmers do not, at the next Dominion election, stand together, and demand of thei candidates, no matter what political stripe they in the House to give the farmers of this country free, denatured alcohol, they will not be looking to their own interest.
w. B. RITTENHOUSE.

SOME HARD NUTS FOR A MILITARY - DRILLED FARMER.

Since my article on military ". The appeared in "The Farmer's
Advocate" of Feb.
27th, someone has

Advocate of Feb.
27 th, someone has
been firing at me been firing at me
from behind the from behind the
cover of a MMi-
tary-drilled Farmer.' A s military
training has been
in fashion since training has been
in fashion since
the time of Joshua, I f fail to see why I should
 advocate a change
Like many others Like many others,
long for the
time of which the lime of which the prophet
poretold people shall beat people shall bea
their swords int
plow-shares an plow-shares pruning-hooks; ne-
tion shall not 1 ift tion shall not lift nation, neil neithe shall they learn
war any more.
Also the time of
which the angels Also the time of
which the angels
sang when they sang when they
proclaimed th'e
birth of the Prince birth of the Prince
of Peace. II we
persist in teaching the barbaric
customs of our
ancestors, cuscoms ors, our
ancestors, h ow
can there be peace on earth ? military training in schools, one ronto magazine,
riages, and possibly, also, to our heavy wagons. good people who would abolish all references to
With this improvement in construction, their war will be in a dilemma when they come to the heapness from the immense number required, their Old Testament, and will probably revise such simplicity of operation, and cheaper fuel or gas, phrases as the 'God of Battles.'" One would hink, the farmer will not be able to afford to drive a by those words, that the prince of Peace Testato and from town, when in a hurry, with that ment had never been written. If Christ had not breakneck speed that these other fellows are now going. Then our good housewives and daughters steed ditching them, and no bother or delay in hitching. Why, they will be there before the hired man could even get up a horse. There the near distance. have been accustomed to In the past we have been accustomed to look upon those owning automobiles as being among the
wealthy ; in the near future, the man of ordinary means, such as the average farmer, will be the

```
means, sing the auto, while the wealthy man, who
```



Buchlyvie Laird [6102] (13389).
Clydesdale stallion; roan; foaled May, 1904; sire Baron of Buchlyvie. Firyt and
reserve champion as a (wo-year-old at Perth. Scotland; third at Toerve champion as a two-year-old at Perth. Scotland; third
ronto; second at Ottawa. 1907 ; second at Ontario Horse to: second at Ottawa, 1907; second at Ontario Ho
Show, Toronto, 1908. Imported and owned by
Smith \& Richard son, Columbus, Ont. phrases as the 'God of Battles.' "One woul
by those words, that the Prince of Peace had not
come, and that His sayings and the New Testa-
ment had never been written. If Christ had not ment had never been written. If Christ had not sacrifices, polygamy and slavery.
Militarism is directly opposed to the teachings the Prince of Peace which we in Canada profess to believe, though in reality we worship Mars. The early Christians, rather than bear arms for
the emperor, suffered martyrdom, thus displaying
courage unequalled on a field of battle. courage unequalled on a field of battle.
"Military-drilled Farmer ", says that were I "Military-drilled Farmer" says that were I
more conversant with military drill and calisthenics as taught in our more progressive schools, ics as taught in our more progressive schools, I moultary drill, which I believe to be wrong. I am
.
elso femiliar with physical training as taught in Canada, and in English and Swedish training colleges, which I believe to be splendid. I am heartily in favor of everything that will develop the body, both for boys and girls, but I stil
think that work in the fresh air of the farm stand ahead of them all, for there we have the satisfaction of having accomplished something. Still, if it is impossible to work out of doors, the gym
There are two distinct
There are two distinct sides to a soldier' The latter is given to counteract the stiff pos tions of the former. By all means, let us hav physical culture (and gardening) in the schools but why add the rifle to it and call it military
drill? That is the part to which I object for it is the first step to conscription and the banishment of liberty from a free country

Military-drilled Farmer "s says that military what Lord Wolseley says in his "Soldier's Pocket book ": " If a soldier is to succeed in spy-duty he must lay aside the belief that 'honesty is the best policy' and that 'truth always wins in the ong run.' These pretty little sentences do wel upon them in war had better sheathe his sword
forever." The Reverend J. P. Gledstone, missionary to soldiers at Aldershot, England, says and for proof of it we point to the shocking im morality of all military centers." Rudyard Kipling confirms this., One has only to read his story, " Black Jack," which paints the army as
morally bad. moraly bad

Last year, when forty-one hundred militiamen were encamped near Kentville, the Kentville Ad-
vertiser said: "The effect of Aldershot on Kent ville the last fartnight has been no credit to the town or to the soldiers. The town autharities
are not getting proper hold of the situation in are not getting proper hold of the situation in
enforcing the temperance laws or in preventing rowdyism, drunkenness and free fights in our
streets. The soldiers, all through camp, made streets., The soldiers, all through camp, made our streets a place where respectable people would
not care to be found. Stores were rifled and thieving went on night after night. A fight which nearly cost the life of a harmless fellow, the at tempted burglary of the jewellers, and the kicking out of a plate-glass window were but a few
the scenes which the soldiers enacted while here
As I saw fighting and drunkenness on the drill ground, it has only strengthened my opinion that
military training is not right. military training is not right. The aim of mili-
tary drill in schools is to draft more boys into the tary drill in schools is to draft more boys into the
militia, where there are many young men from the best families in the country. But the pleasant life under canvas also attracts the idle and bad boys; can these latter come in contact with
the cream of the country without tainting it? No ! From my own experience, camping out is de-
lightful, but why go to the militia for that pleasure? Is it not a sad statement of "Militarydrilled Farmer's "t that, after all these centuries,
since the first Christmas, " Farm boys live a whole year to go to camp '" (where they will be whole year to go to camp (where they
taught the latest methods of killing men ?
As for military drill making children obedient
to their parents, that is hardly possible. parents cannot exact obedience from a child during its first six years, it is almost hopeless to expect it later.
Like Ontario, Nova Scotia is very go-ahead in the profession of farming. We also have our ag-
ricultural and horticultural institutions (from one of which I received my diploma). If "' Militarydrilled Farmer "could attend some of the agricultural meetings and shows of frequent occurrence,
he would find that we have just as few " mossbacks" and "hayseeds" as they have up in Ontario. (What this has to do with military drill I do not know, except that the men who belong to the militia are usually made conspicuous Statistics taken from the Glasgow (Scotland) Police Force show that the man who is a reservist is less trustworthy than the man who has not been through the army ; but, in fairness, must say that we have had ex-soldiers in our emworthy.
A soldier is a parasite. He produces nothing and lives on the produce of the workers. As means of defence, I do not think that in schools will be of much value. Other countries will try to get one step ahead of us and we shall be just where we were before, only our purses will he lighter, and the ore which
thould have been beaten into plow-shares will have should have been beaten
peen turned into swords
According to "Military-drilled Farmer" seems to be correct to "wind up with poetry. stead of quoting the "" Arsenal at Springhield,
will ask him to take down his Longfellow and ead it. while I congratulate him on being germrouf, and thank the editor for his space.
EUNICE WATTS.

UMSIGNED INOUIRIES At least a dozen letters of inquiry received at waste-paper basket because unaccompanied with full name and address: Since January we have been fairly deluged with inquiries of all kinds.
It taxes our energies to attend to the bona-fide It taxes our energies to attend to the bona-fide
communications from correspondents who conform to the rules, and some of these have been unavoidably deferred in some cases for a week or
so a waiting the attention of an industrious staff so, a waiting the attention of an industrious staff.
Under the circumstances, it is nothing short of Under the circumstances, it is nothing short of
imposition for subscribers or others to bother us without strict conformance to our rules, which appear regularly in the standing announcement on the second page of reading matter of each issue.
It is not necessary that the name be published, but it must be attached to the inquiry as an butince of good faith. We are aware that some new subscribers may overlook the rules, and some older ones occasionally forget them, but nature willful trangression, and in this matter nature's
$\qquad$

## HORSES.

EXPERIENCE WITH DRAFT AND CARRIAGE HORSES
Contribution by Archie Bell, Huntingdon Co.,
the Horsemen's Experience Contribution
I give you herewith my expericnce with horses from
he time I commenced farming for myself, about twenty the time I commenced farming for myself, about twenty
years agn. I will first give my experience with years agn. I will first give my experience with
Clydesdales, then with carriage horses. had been keeping them in nights. I not being at home
that day, the hired man put them in as usual in box
stall. After getting home I noticed they were both stall. After getting home I noticed they ware both
sweating badly; the night being warm I turned them sweating badly; the night being warm I turned them
out; night turned cold, colt got chilled, died next morn ing. It was a dear lesson to me, for I valued it at five hundred dollars. I think that had it not been put in that evening and got sweated it would have been all right. She fired another good horse colt
other good mare colt which turned out well.
This mare I have been writing about was shown many times, never coming out without a prize, very often first, including taking first prize and diploma at
Montreal for mare and two of her progeny in the year Montreal for mare and two of her progeny in the year
1892. Two years after at same show she took thie twenty-five dollar prize offered by the association the best imported or Canadian-bred Clydesdale ma and also bronze medal and diploma. This time she
had no foal; she was in fine shape; her weight was had no foal; she was in fine shapo; hor weight was
seventeen hundred and sixty pounds; girth, seven freet five inches.
She was chosen the following year by the Quebec
Government to go to the World's Fair at Chicago--the Government to go to the World's Fair at Chicago-the
only Clydesdale mare chosen in the Province. She had only Clydesdale mare chosen in the I I went with hor to look after her. It was a nice trip for me, as the Government paid all expenses. I learned a good dral out horses of all kinds there Understand, I always bred this mare to the best
registered Clydesdale horse I could find. Horses got so cheap that I, like hundreds of bthers,
became discouraged, stopped breeding them for a time became discouraged, stopped brocis and went into darrying.
Arter having considerable experience showing at exhorses to follow the shows, as there ts a reeds good My advice is attached to it. My advice is, breed good horses, feed them well,
and you will always get sale for them at a mood paymon mot soid

Floshend Princess (imp.) [13788]


 filly foal, for one hundred dollars, which when a year bone right into the coupling, ribs well sprung ou
old took first prize at our county fair. Bred when back; barrel deep and round; coupling broad, han
two years old, she had a nice horse colt at three. I filled in; hind quarters broad, coming well forwar fed them some crushed oats on the grass. He was a coupling, going baacters broad, coming well forward into great colt when brought into stable; weaned him in between quarters; tail well set up in the rump: stifles December; fed him green clover and timothy, crushed broad, heavily muscled, running well down; hock wide oats, bran, oil-cake meal mixed, twice a day; let him flat, clean, smooth outside and inside; hock to fetlock
run in large box stall. When sixteen months old he short, wide and thin: fine teal run in large box stall. When sixteen months old he short, wide and thin, fine feather of hair on back of
weighed thirteen hundred pounds. He was sold for leg; pasterns clean, medium length, well set; foot large, weighed thirteen hundred pounds. He was sold for leg; pasterns clean, medium length, well set; foot large
six hundred dollars to a dirm in Lachute, Que. Mr. not so round as fore foot. Robert Ness, the well-known importer, said he never essential that a draft horse be a good walker, so as to
saw a yearling fitted like him in Scotland.
 The mare missed one year, having another horse work. It is very essential that a stallion should
colt when five years old. The same parties offered me square, and walk and trot scuare on all his feet. four hundred dollars for him when six months old. I When standing or movin, the hock should incline held for five hundred. That was one of the times I turn a little in or moving the hock should incline to
made a mistake, for after keeping him till three years out, so that he will not
travel too wide behind; a good, long, stron s, solid old I sold him for less money. The following year the travel too wide behind; a good, long, strons, solid
mare had another horse colt, for which I was offered tride at both walk and trot, showing the sole of the two hundred and fifty dollars at six months of age. I I I Think we can apply this standard to the mare as
held for four hundred, and missed it again. After well with held for four hundred, and missed it again. After will wink we can apply this standard to the mare as
coming into the stable he goot one hind leg hurt. We werhals a milder appearance of disposition. coming int. the stable he got one hind leg hurt. We
had to castrate him, and when three years old sold had to castrate him, and when three years old sold
him for lesss mones. I made up my mind when I got
a good offor for anything again 1 would let it go. a good offer for anything again 1 would let it go. a year wld for a pure-bred filly foal. The following
year had an extra fine mare foal about September 1 st , yoar hast in extra fine mare foal about september 1st, With regard to carriage horses my .apprience alons
 It is difficult to, gret all this combination in one horse
or mare, but we can try for it as near as possible. There are many can try for it as inear a ments I might have mentioned,
 With regard to carriage horses my "xperience along
trom the fact that perhaps I was too hard to please calibre revolver and place the muzzle within two or the past seventeen years, no less than 6,331 dout nine years ago a noted horse dealer of Huntingdon calibre revolver and place the muzzle within two or the past seventeen years, in the horse's forehead, and press the horses have been submitted to the rigid veterinary County, Quebec, brought from the "ounty of simcoe, trigger, and 1 never have had to fre the seond shot Ontario, a beautirul German Coach mare, four years
old, which struck my fancy as being as noar pertection as was possible to
He mated her as closely as he could, and dissosed
the team to a Montreal gentlemnon at $n$ nandsom

 fifty pounds, jet black color, star on face, small white
marking on of hind foot. She has excellent action. with true movement, with an exceptionally intelligent apparance, carrying head up exrectionly, with beating
fully long, clean-cut and well archeef neck; body is well
 ceptionally smooth curb and spavin joins; pasterns
clean, of medium length, well set; nice round plump teet of good quality; altogether, in my mpinion, a a typical carriage mare.
II red this mare to a blood stallion three years ago
last June. She raised a beautitul mare colt, which I last June. She ralsed a beautitul mare coit, which 1
sold when one year old for two hundred dollars.
have inice bred her to a French Coanh stallion that is owned by a syndicate in New York State, costing three
or thousand dollars. She sise
now rising two years old, which 1 me value at five hundred
 Toal again to the same horse. The sale I made and
the quality of the progeny owned yet, give me enthe quality of the progeny owned yet, give me en-
couragement to believe that my investment will be of a proftable nature. My belioof with regard to brood mares of any breed
sthat too much attention cannot be given to eselecting is that too much attentloi cannot be given to selecting
he best, and as to temperament, this is a strong feathe best, and as to temperament, this is a strong tea-
ture which should not be overlooked, and a polnt of excellence in the mare above described which makes her a grand assistant in peririoming work of the rarm, and a
pleasant companion in any team this valuablo oualpleasant companion in any team. in her offspring, as
ity of exeellence is well developed in they are all of a a gentle and winning disposition
I will not enter into horse breaking, but would say this: Start to handile and harness colts when rising at that age and not so apt to contract bad habits.
M method in breaking horses ts to be kind and frm with them. Be sure to make them do what you avors afterwardo-but be sure to clap them after you have conquered them.
My cure for all cuts, bruises and bunches, bathe stand it. rub till perfectly dry with dry cloth, then rub on some liniment. I I use cold water and ice of or sprains. As colic seems to kill more horses in the country than
all other diseases, I will give you my cure : Dissolve in one quart of warm water one pound of Epsom salts,
 that down him, give half a cup of son
water. If this does not give relief in one hour, repeat water. If this does not give relief in one hour, repeaal
the dose.
When first noticed sick put two blankets on
 teet. I never yet had to give the second dose, and al-
ways got relief in hall an hour or less, and I have cured some very bad cases. He will steam up warm,
so be careful not to lot him cool down too fast. Feed

 mose given is tor heavy draft
 where he cannot run back, put a hamestrap into his
mouth, buckle it on top of his nose, tie another strap or rope into it, throw the rope over some beam ot
pulley, pull his head up high enough so that he cannot pulley, pull his headi
spill out the medicine. Do not pour it down too tast. so as to choke him and get it on his lungs. In is well
to let his head down so that he may get his breath for a little at times.
In conclusion, my opinion is the average farmer on
dratt heavy lands would be better wo breed heavy dratt horses, as they will do heavy work broken in, not so so
market younger, are more casily bo will generally give a good profit. There is no dount the mend kind rapaite or breoding, fitting and handling the right kand

- the ${ }^{\text {rit }}$


Copper King (7764)
nckney stallion; chestnut; 15.3; eight years old; sire Mathias. First in class
and
grand champion, London, England. Hackney Show. March, 1908.
ney stallion; chestnut; 15.3; eight years old; sire Mathias. First in
and grand champion. London, England, Hackney Show, March, 1908 .
speedy and yet showy animal that ness horses. This being the case, the Hackney is assured of a place in the world's markets as tong as the breed can be kept up to the high pite of the 1 at present occupies; and this in some quarters in which its qualities are still unrecognized, and in spite of the rapid increase and ropularity of the mechanically-propelled vehicle.
It has sometimes been urged by the opponents of the Hackney that the breed is lacking in those qualities which go to constitute the perfect har-
ness horse; that it is soft, wanting in ness horse, that capable onty of showing exaggerated action in the show-ring. To such as these, one may of the breed by nations that have seen its worth as a cross for the battery horse, and even for the
inount destined to carry cavalrymen. It is not Furopean nations, military requirements, for even ney suited to military requirements, for even
Javan has teen, and continues to be, a buyer,
Iuhil" each vear sees more of the breed exported

examination enforced by the Hackney Horse So-
ciety at its London Show, and of this number, only 301 -or about 5 per cent.-have been rejected only $301-$ or about 5 per cent.-have breed could come
for unsoundness. What other been fhrough such an ordeal so creditably ? One occasionally hears the detractor of the
Hackney complain of its artificial action, of its Hackney complain of its artificial action, of its
wasting energy in lifting its feet to its chin and wasting energy in lifting its feet to its chin and tion can only come from those who are ignorant of the history of the breed. Fnown as a distinct least, the Hackney breed, a breed that, although tracing back to the same ancestors of the Thoroughbred, has for generations been selected for its capabilities as a
trotter just as the Thoroughbred has been chosen for the saddle. Widely as the two branches have: now diverged, the taproot of both remains the same, and just as the canter is the natural gait of the Thoroughbred, so is the
comes by instinct to the Hackney,
But all this is perhaps beside the mark, since no apologies need be made for a breed which can attract, as the Hackney has done, representatives
from most of the principal countries of the world, for among those who have lately surrounded the ring at Islington have been visitors from Europe, Asia, Australasia, and both the Americas. More than this, during the past year Hackneys have
been shipped to Argentina, Australia, Austria, been shipped to Argentina, Australia, Austria, land, Italy, the United States of America, and Uruguay. So long as the records can show such
a trade as this there need be no fear that the a trade as this there need be no fear. that the
Hackney will cease to be chosen as the means of traction by all who still appreciate the pleasure of sitting behind a good trapper, or by those
desirous of imparting to other breeds some of the desirous of imparting to other breeds some of the
many good qualities of which the trotting hor se many good qualities of which the trotting horse
of Britain has shown itself to be the possessor.

ADVANTAGES OF CLIPPING
We have never been quite able to satisfy our-
selves that clipping horses is an unqualified ad-
vantage
It seems
 suigreatt an an reneaiest sum picion that, like some beneficial at first, the ultimate disadvantages meay ortate thena obvious
 where clipped horses aro
 do not seem tom to outforer tany percorthbl tinurry, but
 The arsument on behalit
 oined artucte, reno sombe sube $\rightarrow$ Nat, of widnipeg t tilpphing is is thantegy Cesent the thencerat tio deater, and mateo tion, and tho coat cond atr $A$ horest that toat anas drid his haary winter coatimg , hair takeon or beboror atrenous out work to seceling satason will the more resen and vigorous, fuller of vim, and iteen
 atul growth of heavy hair illeced up with duat and dirt, the porese of the akto coogged up, und the animal aul, ifieless, out of consution, ipaskugs in emergy and vigo it it is arprisisg tho difierborea, the oase with which he perrorms ills work ho inceraed activity which he displays, and the increased amount of work which he can to on thi same puantity of toed
 binht moat tavorable to llfe. Sweat glands ari
 $y$, but in increased amounts as the temperature of the body rises. The evaporation of this per tent the temperature of the skin, and unless exhorss is required to perform abnormally hard dancer maintain his temperature below the plays an important part in the quantity of skin the sueat glands require to secrete and pour out
less fluid in order to maintain this optimum body temperature. The air comes in closer touch witi
the skin itself, and the cooling effect of evapora the skin itself, and the cooling effect of evapora-
tion is direct in its application. In a skin clog ged with dust and driedi-up sweat, and with long matty hair protecting it from the cooling action of the atmosphere, more perspiration must
creted at se creted and exuded, more work is required of the
sweat glands, end energy which might be plied in useful work is employed in sweating out moisture to hold the temperature down to nor
${ }_{\text {mal }}$ An
while he ing that adds to the comfort of a horse which he can do, and decreases the amount of food which he must consume and the energy Which he must expend in doing it. Iritation and discomport of any nature decreases a horse's to reduce irritation discomfort will enhance to the extent they are effective in so doing, a horse's clipping is to the what and does not require one-quarter the grooming that is required by the shaggy-haired, dispirited nag. There is no shedding of hair all the season through to blow over everybody and everything,
no sores or skin disorders, but healthy, wellconditioned horses, comfortable in body, active in spirit, capable of performing the maximum amount of wark. Cilp the horses early in spring, before

TO PREVENT SORE SHOULDERS
With reference to the article on "Preparing
Hhorses for Spring Work,", in "The Farmer's Advocate" of March 12th, an experienced reader Mr. John Hunter, of Lambton Co., Ont., says he considers one of the most important points is to
bathe the shoulders daily with salt-water for ${ }_{\mathrm{a}}$ week before spring work commences. If the horses can be moderately exercised, and bathing done evenings, after they come in from work so much
the better It tends to toughen the kion, allay the better. It tends to toughen the skin, allay
inflammation, and prevent or heal any abrasions. of course, it is also necessary to see that the collars fit. Observing these precautions, he informs us that he has never had sore shoulders on a
colt. We might add that this suggestion was offered editorially in the above-mentioned issue, and is approved by a large-mumber of carefuil

## horse - COLLAR SUGGESTIONS

Editor "The Farmer's Advocate ": "
The question as to which is the best style of The question as to which is the best style of
collars, leather-lined, cloth-lined, with or without sweat-pads, seems at first an easy question to swer is, " You pay your money and take your The best coll is the collar that fits best Here, of course, comes the diffculty. A collar should fit snugly, with just room to insert the fingers between his con in the position in which he will carry it when working. Here is when we come to the use of the sweat-par. When a horse goes to work in the spring, presumably, he
is fatter and bigger in the neck than he will be later on. So the teamster must watch carefully and put in the sweat-pad before the loosened collar gives the horse a sore shoulder.
Personally, like a cloth-faced
Patern in slightly different to that of the ; their
 Therefore, keeping the traces further out from the shoulders, avoid rubs on the side of the shoulders.
Also the cloth absorbs the sweat. When I use eather-lined collars, I always use sweat-pads. the leather lining seems to me to get too hard. of course, I can understand that the collar jitseli nust be rigic, but fan ice solt surface such as is provided by a why pad, would not make the horse mare comfortable. espectally when drawing hard.
Perhaps your subscribers are not aware that here is a big difirerence in quality between co
lars of much the same appearance; $i$ i. e. whethe ars of much the same appearance; 1 . e, whethe
they are short straw or long straw. The short strawed collars are just "stuffed "' full of short straws, and are liable to become "lumpy." The naced in position "up and down" the collar The stuffed collars are about fifty cents cheaper, but that is only a small matter when compared with the good qualities
In harvest, horses are liable to get sore on the op of the neck. So far as I know, the best remedy for this is to use a zinc pad, this ides as traded off by an English-army veteran to an American for a glass of beer, who patented the
device, and lived happy ever afterwards (on the rovalties)
Another point worth watching is the point o he shoulder: Horses that carry a low head
nite often get a sore here. To avoid this, put

a story about a man who had trouble in getting
a collar big enough to fit himself ! Well, a friend of mine took a trip to the Old Country, and when in Dublin wanted some new collars, so he went mto a men's furnishing store, and asked the gir
behind the counter to show him some collars she did so, but they were all far too small (he weighed about 250 pounds). The bold Alex. then asked the girl if she could direct him to a place
where he could get collars to fit him. The girl said, "Certainly ; I am sure they will be able oo suit you with collars next door." On going out into the street, Alex. found " next dor"" to
be a harness shop!!
Russel Mun., Man.

## LIVE STOCK.

## FROZEN WHEAT AS FEED FOR STOCK

 RESULTS OF EXPERIMENTS AT THE CENTRAL EXPERIMENTAL FARM.As soon as it was known that frozen wheat would be make some tests of its feeding qualities at the Central Experimental Farm. A carload was accordingly purchased from a farmer near Indian Head, Sask. I equal parts No. 1 frozen and No. 2 frozen. No 1 cost $\$ 1.06$, and No. 2. 98c. per 100 lbs. delivered at ot The feding tests conducted were quite varied, and
on a fairly large scale, but it is not proposed to do
anything more at the present than give mere sumanything
naries.

Horses
It was fed to horses, where it made up about one thind of the meal ration, the other two-thinds consisting of bran and whole oats. It proved unsatisfactory as
a feed for this class of stock. It appeared to be unpalatable to them, and when eaten seemed to be the
cause of digestive troubles. No. 1 frozen was used. -
When fed to milch cows results were quite satisfacory. A number of cows receiving as a meal ration changed to a meal ration of 5 parts Norts gruten were and 3 parts bran. They did as well on the new ration as on the old. By this change the cost of the meal ration was reduced by about one-firth. For this class of stock it appeared very important to grind the wheat gluten, it may be said that in feeding qualities and composition, the gluten used compares very favorably with oil-cake meal.
beef cattle.
Since steers are the class of cattle to which it is likely to be fed in considerable quantities in the West
a fairly large experiment was planned. For the most part No. 1 frozen was used. On a small number, howresults.
The No. 1 frozen wheat was fed in varying quanti-
ties and in different mixtures to 24 cattle. These were ties and in different mixtures to 24 cattle. These were divided into three groups of 8 each. Another lot of
cattle of similar quality but somewhat heavier, was fed during the same period on a mixture of bran and gluten. This mixture is one that has always glven
most excellent results here, so it wll most excellent results here, so it w 11 be understood
that the wheat mixtures were up againat a difficult proposition when running in comparison with the bran and gluten mixture. The feeding experiments with
cattle were continued ttle were continued for ten weeks.

LOT E.-TWO-YEAR-OLDS.
Weight December
Le (average)

In every case it will be observed the steers made good gains. It was found necessary to grind the
wheat very fine, or part of it passed through gested. SWINE.
swine.

Since swine are supposed to be particularly auted making use of this sort of feed, it was decided to sive as thorough a test as possible. The results given below are quite incomplete, but will serve to indicate pork production. The hogs were divided into groups 5 each, and fed as follows
 were weighed every Tuesday and careful notes made of
results each week. The summary is as follows.


The pigs enjoyed uniformly good health. The lots lots were on the same ration when one was a heavy lot and the other a light lot; as, for instance, in lots 10 lbs,, and where pigs in in lot 11 averaged at finish 140 atish 203.2 Weights are given below
average weight per pig in lot in fach $+2$ Weight to Start
To Fintsh
141.8 lbs
119.2 lbs
141.8 lbs
119.2 ls
176.2 lbs
209.2 lbs
124.8 bs
124.8 lbs
149.6 lbs
169.4 ls
169.4 lbs.
111.6 lbs.
111.6 lbs.
147.2 lbs
203.2 lbs.
203.2 lbs.
110.8 lls.
176.7 lbs
176.7 lbs.
159.3 lbs
137.2 lbs.

It will be observed that pigs in pure frozen wheat
made excellent gains. It must be noted, however, that
very careful feeding was necessary in lots where pure
wheat was used wheat was used. On averaging up the wheat lots it
will be found that gains cost on pure frozen wheat less will be found that gains cost on pure frozen wheat less
than 4 cents per pound live weight. This compares very favorably with gains made on other feeds or mix-
poultry
Mr. A. G. Gilbert informs me that No. 1 frozen wheat has given him good results with his hens. The wheat should, however, he asserts, constitute only a
Frozen wheat may be fed with profit to dairy cattle.
steers, swine and poultry. It should, however, be
meal. ground. It is better to mix with it some other
Bran or onts are most suitable for this pur

THE HOG CONTROVERSY REVIEWED.

## Editor "The Farmer's Advocate":

 A few years ago farmers, through the press, charged the packers with unfair dealing; first, in controllingprices by combination, and second, in not paying for quality.

The Department of Agriculture sent out men to Institute meetings, etc., loaded with charts and talks
" Bacon Hog." But as fast as the farmer was on " Bacon Hog. educated at public expense, the packer uneducated him educated at as much for a scrub as for a prime wiltshire. A considerable reduction in hogs began $t_{0}$ loom up. Davies Co. called the Department and press to
their office. At this conference the farmer was turned themn-he had no grievance. The Davies Co. was taken ${ }^{\circ}$ under the wing of the Department, and the Davies ex-
periment endorsed and accepted. Circulars were issued periment endorsed ath conditions that he was to bear all risks-feed, clean, bed, ring, load and market, for the good of his health. I suppose Prof. Day expressed the
feelings of the Department when he said that this was very kind of the Davies people. But the farmer who persisted in furnishing the packer with scrubs got a
roasting from the same source: I refer to language in roasting from the same source.:
bulletin on "Hogs of Ontario." About this time a Mitlle hitch in the Davies Co. was
aired in court, where the net profits for 14 years were
 120 per cent.; in 1899, 82 per cent.; and so on. In
view of those figures let me ask, "Had not the farmer view of those figures let me ask, "Had not the farmer
a grievance ?" These facts are known to the Depart a grievance $\boldsymbol{p}^{\prime \prime}$. These facts are known to the Depart
ment, and Prof. Dey, as their mouthplece, had continued to flout the Davies figures of the experiment before the
farmers. "The Farmer's Advocate ". sajs, editorially ${ }^{\text {farmers. }}$ that the press as well as Prof. Day has pointed out "that the press as well as Prof. Day has pointed out
the unwisdom of rushing out of a business because profits are temporarily contracted." There are deeper reasons. Not many care to be patrons of a concern
that can pocket 120 per cent. out of your product, nor
T. B. SCOTT. would I so advise any one.
[Note.-While holding no brief for the packers,
[Nor compels us to point out that Mr. Scott has candor compels us to point out that Mr. Scott has
mentioned only the years of exceptional profits. The average dividends paid by the Wm. Davies Co. during a. period of fourteen years, as disclosed in the cour proceedings alluded to, was a triffe less than 51 per
cent. per annum, which, however, is not bad. It is but fair to note, also, that this profit of 50 per cent. is bulked up by a comparatively small margin on a large turnover, and considerable credit is due the above company for the enterprise and economy with which
they have prosecuted their business. That is not say
隹 ing but that the packers may have been at times guilty of killing the goose that lays the golden egg, nor is it any palliation for their deliberate refusal to assist the
educational propaganda by devising and instituting an effective system of payment according to quality. We may also point out that at the celebrated conference referred to, the representative of "ility of such discrimina. ate strongly urged the advisat on ther must depend upon such competition as may exist among the pay enough
upon market conditions. If they do not pay upon market conditions.
to induce liberal production of hogs, they will
walk with us in the funeral procession.-Ed.]

HOG PASTURE A timely bulletin has been issued from the
disouri Missouri Experiment Station by Dean H. J. Waters, giving the results of some experiments to de-
termine the value of different forage crops for termine the value of different forage
hogs. Thirty-six pigs, weighing about so crops,
each, were fed in lots on different forage ceaty each, were fed in ors on antil they were ready for
in connection with corn, un the cost market, accurate account being kept of the cost (if gains made.
In cheapness of gains, the feed used ranked as
an In cheapness of gains, the
rollows, according to Missouri valuations: Corn and skim milk, cheapest, corir, corn and blue-
ond ; corn and red clover, third grass, fourth; corn and rape,
sliip stuff, sixth. A saving of about
cost of gain was effected by using green clover
instead of fresh blue grass. A saving of $\$ 1.00$ a 1,uc erass.
When it is realized that alfalfa comes on early, 25. When it is reaten properly clipped, stays green all sum"r. and until the very harog pasture is apparent.
$\cdots$, its importance as a hog

$\qquad$

## OUR SCOTTISH LETTER

 Stock have been our chief concern since I las Wrote, and we have had it in various phases.The spring bull sales are over. At all centers there was depression, as compared with the experience of recent years. The outbreak of footof February, was followed up, on the very eve of the first great bull sale, by a second outbreak in the same city, and in a dairy herd founded by peared. posed to be stamped out than a third appeared in a neighboring byre. Apparently, the disease has been got the better of at last, but the de pression at the bull sales could not be shaken off promptly closed their ports. ${ }^{\text {an }}$ England followed suit on report of the second outbreak, and we were therefore left to do our own business pretty The Abrdean usual, Ballindalloch headed the list of averages, a very good second being made by the rising herd The Mr. J. Ernest Kerr, of Harviestown, Dollar. The Ballindalloch average for eight young bulls
was £106 11s. 6d., and Harviestown average for soven, $£ 434 \mathrm{~s}$. The average price of 253 bulls was $£ 2411 \mathrm{~s} .6 \mathrm{~d}$., as against $£ 25$ 14s. 1d. for 298 bulls in 1907. The Shorthorn sale was held
in the week after, and Mr. A. Robertson, Mains of Balliechin, Ballinburg. Perthshire, had the honor of making the highest price for a bull in Scotland this year. He got 500 gs. for the young
dark-roan " Jim Sidey," a typical Scots Short-dark-roan "J Jim Sidey," a typical Scots Short-
horn, short in the leg, thick, well-ribbed, and


Jim Sidey. Shorthorn yearling bull. Third in his class at Perth Show and Sale, Feb.
1908. Sold for $\$ 2,625$ to Mr. Ha rocurt, Cumberland. Bred and ex-
hibited by Mr. Rohertson, Ballechin. hibited by Mr. Robertson, Ballechin. try has occasional experience Some interesting things were said by Mr. John Clay, Sunlaw, Roxbrugh, to a gathering of stu-
dents. Mr. Clay is best known as the maindents. Clay is best known as the main
spring of the business of Clay, Robinson \& Co. pring of the business of Clay,
Chicago. He is a Border callant, who went out to the United States to push his fortune in 1878, and did that to good purpose. Few men have seen more of the American cactle trade, and when he told the studenals, we naturally listened. Both Shorthorns and Herefords he praised as the best range cattle, but still admitted that they becam stunted in growth after long exposure. The mor-
al of this tale was that the American breeder must always repair to the home herds for cattle to recuperate and build up his stock. Mr. Clay for the farm, but they are not to be compared with Shorthorns or Herefords on the ranges. He did not say anything about the Galloways o Highlanders.
Here we are much interested in an attempt to establish a national milk-record scheme for our
Ayrshire breed, and we are going to succeed. Ayrshire breed, and we are going to succeed an idea gets hold of them, they prosecute it to
the end. The milk-record scheme is a case in hand. It has fought its own way against strong opposition. Mistakes were made at first. In particular, the competitive element was allowed to enter, and those who were not overcareful found it convenient to drop some of their worst cows
out of the totals, which, of course, did not insure an accurate representation of the condition of the an accurate representation of the condition of the
herd. Others fed for the herd. Others fed for the
tests, and so got results
which were not a fair which were not a fair
average of the herds.
However, all these errors However, all these errors
have been left behind, have been ind are in a fair way and we are in a fair way to estabishing milk-rec-
ord tests in the west and
south-west of Scotland south-west of Scotland on a national basis. The great fostering mother
in this movement -has
been the Highland and Agricultural Highland and
Soclety. in many useful enter in many useful enter ord scheme will not b
the least creditable o the least creditable of The work has now been taken over by a Record Committee on which th sational $\begin{gathered}\text { Society, is } \\ \text { strongly }\end{gathered}$ funds so far are mainly
provided out of the Na provided out of the Na
tional Society's ex tional, Society's ex-
chequer, and we are all chequer, and we are alting along very nicely. The horse shows are over for another spring. The great. London threeat an end, and soon the
at an end, and soon the
Government will be
ull of flesh. The most successful exhibitor was ull of flesh. The most successful exhibitor was
Mr. Jas. Durno, Jackstown, Rothie Norman, whose stock bull, Baron Fyvie, bred splendid stock. Mr. Durno won both Asrst prizes group of three, all got by this sire. These are red, heavi-ly-fleshed cattle, of the Lovat type. They may be a shade strong in the bone, and coarse, but they carry great wealth of flesh, and are the kind Count Fascinator, was greatly fancied by expert judges. He is owned by Mr. A. T. Gordon,
Combscauseway, Insch, Aberdeen. Mr. Durno's Combscauseway, Insch, Aberdeen. Mr. Durno £147. The next best average was $£ 1315 \mathrm{~s} .$, made by the Earl of Moray, Downe Lodge, for two,
nd the third best $£ 12110 \mathrm{~s}$. 9 d ., made by Mr , and the third best en for for The average price Murray, of Polmaise, forls was £36 19s. 3d., as against $£ 6317 \mathrm{~s}$. 5 d . for 310 bulls in 1907 . Thes figures tell their own story, and the slump is
undoubtedly due to the "scare" consequent on undoubtedly due to the "scare" consequent on
the foot-and-mouth outbreak. No doubt the the foot-and-mour trade is rather quiet, even without the scare, but the slump would not have taken place but for the outbreak
Prices at the Highland sale, at Oban, and at the Galloway sale at Castle-Douglas, were in sympathy. In neither case was bidding brisk. The
Highlanders made a top price of £60, secured by Highlanders made a top price of $£ 60$, secured by
the Countess Dowager of Seafield with a two the Countess Dowager of leageant fold. The
vear-old bull from her Castle-Grant
Calloways made a top price of $£ 63$, secured by Galloways made a top price of £63, secured by
Col. Kennedy, of Knockwalling, for a young bull Col. Kennedy, of Knockwalling, for a young bul
stirk named Swerpstakes. He was purchased by stirk named Sweenstakes. He was purchased by
Mr. Walter Biggar. Chapelton, Dalbeattie, whose
Mallo called on to declare what is to be the national policy in view of the decreasing interest in horseown for many a day to come. Clydesdales and Shires are both doing well. Prices for both breeds are remunerative, and there is quite a healthy demand for representatives of
breeds. Clydesdales may not have so many breads. Clydesdales may not have so many quite as healthy state as a breed. The Shires have wealthy patrons, and great prices are paid
by those who are in the ring, and nobody grudges by those who are in the ring, and nobody grudges
that to them. The Clydesdale could do with a few more wealthy patrons than it has. The trouble is not with the draft breeds, but
with the light-legged varieties. Motor cars have with the light-legged varieties. Motor cars have
done much to weaken the demand for high-class done much to weaken the demand for high-class threaten the extinction of the horses for commer-
cial purposes. The probability is that the very cial purposes. The probability is that the very
best class of harness horses will always. find a best class of harness horses will always find a
market, but the outlook for the misfits is not market, but the outlook for Con Carrying Companies are going to combine. The London General mnibus Company, which once a day had almost the moncepoly of the Vanguard Motor 'Bus Company, one of the first, and, for a time, apparently a successful caterer for the same traffic. The
London "tubes" have played havoc with much of the traffic which formerly crowded the 'buses, and the motor 'buses which for a time menaced the horse 'buses, are now themselves menaced by
the "tubes." The motor cars are not popular the "utubes," The motor cars are not popular
because of their unearthly noises and. their
". ". stinks,", and they are proving a hard burden
for their shareholders. At present, in this coun-

This hulletin recomment
try, we are having a slump in motor-car builders
and motor-car traffic caterers. The 'buses put upon routes have been crude and cumbersome, and some bad accidents have taken place. The net result of the whole thing would seem to be in
favor of a lengthening of the horse's lease, and no doubt there will be some extension of his time. But there can be little doubt that time is on the side of motor cars. If the horse be extinguished,
what about national defence and the horsing our cavalry regiments? It is becoming increas ingly evident that the Government must inter vene. If farmers are to keep on breeding horses, there must be a market for them. The War 0 the breeder, otherwise the farmer will need turn to something else.
Reverting to the recent London Hackney Show,
there were some splendid harness There were some splendid harness horses on show many foals, all of them well above the average. She however, produced two stallions, Polonius and Mathias, which, as sires of harness horses,
are simply invincible. Mathias is in Scotland are simply invincible. Mathias is in Scotland Thornhome, Carluke, on Friday, May 1st. This week, at London, he was sire of the champion of
the breeding classes. Copper King; of the chamthe breeding classes, Copper King; of the cham-
pion of the harness classes, Radiant, and of the best group of three harness horses not over six years old, which excluded Radiant. At least six of the finest harness horses ever seen in any of six, I do not think they could be rivalled by any similar group in the world the produce of on sire. Polonius also breeds a very fine class o harness horses. They are mostly to be found in
Vorkshire, where he is owned by Mr. Robert Whit worth. Lovers of harness horses should come to Scotland during the last fortnight of April and beginning of May. They will see what will pleas

CARE OF MOTHERLESS LAMBS Motherless lambs are not an infrequent occurrence in
every flock. Sometimes the ewe refuses to care for her very flock. Sometimes the ewe refuses own progeny; sometimes accident or mismanagemen
produces the death of the mother; but whatever the agency, the circumstance arises, and the shepherd find himself in that, situation where he must find a new
mother for his lambs, raise them by hand, or have that mother for his lambs, raise them by hand, or have that
discouraging misfortune of losing several of his lambs No shepherd nor farmer can afford to lose even a fev of the lambs, and he must exercise all his patience energy and ingenuity to avert such a catastrophe. shift has to be made for the third one. Frequently the circumstance arises that another ewe on the same night, or at about the same time, has produced but
one lamb, or has produced a pair, of which one was ay a foster mother. It is often difficult, however, to get the ewe to take kindly to this changeling. If the amb is being put in till warm hide ine the toad and put it to suck its new mather. This method has often proved successful in inducing the adoption.
more common method is that of daubing the rump o more common method is that of daubing the rump with ther harmless and odoriterous substance may be used In this way the only odor which the ewe gets from the amb is that of the tar, which is so strong as to numiry
all other odors. She is thus deceived, and takes kindly all other odor
But more commonly the shejtherd has to raise his motherlass lambs by hand. as dosible in the composition of the feed used the composition of the milk of the ewe. For the first few weeks, especially, before the little things can make use of any solid food, c.v's
milk is the only food available, but it must be alto... paring cow's milk with ewe's milk, one finds that th ewe's milk contains practically torice as much fat.
about the same amount of sugar, more ash. and nearly about the same amount of sugar, more ash. and nearly
twice as much proteid matter as that of the cow. It feeding it to lambs.
If twice the quantity required each day is skimmed amount of cream obtained placed in this, the content have added one-twentieth as much sugar by weipht with good results, but this is not as desirable a ration
as the former, nor does it approximate the composition as the former, nor does approximate the compers and
of ewe's milk. The proteid content cannot be easily
and remedied during the first three weel
begin to eat grain, when by feeding
obtain the desired nitrogenous matter
In feeding lambs milk, no other appliance has an ordinary bottle fitted with a rubber nipple. lambs readily feed from it at a time in their career
when if we attempted to teach them to drink they when die before learning, or at best be dwarled
would
serlously. The bottle should be boiled frequently prevent infection and the evils following the use tilthy fod. The milk can be easily warmed to blood
vented largely. The lambs for the first ten days should difficulties in the way, but I think that perhaps he fed every two thours in the daytime and every three this Association could
hours at night. As they become older they can longer periods without feeding, and after they are three Would overcome them. months old they will begin to eat ground grain, so
that they become less dependent upon the bottle.

THE LIVE-STOCK INDUSTRY IN THE MARITIME PROVINCES.

## By Prof. M. C <br> Prof. M. Cumming, Principal N. S. Agricultura

 Scotia, before the National Live-stockConvention in Februar
Those of you who visit the Maritime Provinces,
and who go there with a purely a ricultural ind and who go there with a purely agricultural ideal people. We are peculiarly situated, owing to the fact that many of our men are not only farmers in season, but turn their attention also to the there are many people living on lands whe are called in the census farmers, but who are not farmers in the strictest sense; and when you judge our agriculture by statistics, or by some of sad injustice. I am prepared to say, without fear of contradiction, that where our men farm their lands as well as they do in the better parts of some cases better. Although, however our Prov inces have been, and are still, Provinces of varied industries, yet there is a growing feeling that the agricultural industry must be developed. Lum-
bering is becoming less remunerative the sea uncertain, and mining more specialized sea more In order that agriculture should flourish in the
Maritime Provinces Maritime Provinces, I can say that we should keep three or four times as many head of live
stock as we do now. In the second place say that we have already given ample demonstration that our Provinces are well adapted for the successful raising of live stock. We are considerably removed from the large shows, but when on Toronto, or Ottawa, or elsewhere, they have done particularly well, as the records of the past few seasons show. In fact, owing to our moist, cool
climate, it is possible to keep cattle higher state of fitness, and to push dairy cows to a higher yield with impunity, than can be done in inland countries. As an evidence of what is being done, I would like to call to your atten-
tion the fact that the herd of Holstein cows at our Agricultural College produced last year an average of 13,500 pounds of milk per cow. of improving our stock through to feel the need ing and feeding. Our people are somewhat re miss on these points. Our conditions are particularly adapted for the raising of high-class hay raised anywhere in America, and for as can be of splendid forage crops. We cannot, however buy grain as cheaply as you in the West.
are in a peculiar position. We have not an outlet for the highest class of pure-bred bulls and class bulls at prices ranging from $\$ 50$ sell forstThose of you catering to a commercial and not a
fancy trade must agree that these are fancy trade must agree that these are good prices.
However, they are not the prices that will support reckless expenditure for stock.
Although they would like to buy the best stock that you have in Ontario and in the Old Country, ditions must be borne in mind. I have occasionally heard a little unjust criticism of the judg-
ment of some of our people in selecting animals, purchases are quite often tempered by his marse.
We frequently have to buy by mail or indirect means, and are frequently disappointed. The
blame, however, does not rest wholly on vour shoulders. A good many of our own people have a say that they want a bull at $\$ 75$ or $\$ 8$ ritten $\$ 100$. They expect that they are going to $\$ 8.5$ or
stock of the highest degree of you have sent down cattle actually, worth the
money they were naturally disappointed. From
that stand that standpoint, I can sympathize with Ontario and
value for the money when they sell stock to of our
buyers. On the who are not treating our men fairly. You would often do our men, who are proposing to huy, a
good turn if you honestly told them all the details as to what they might expect for a certain
amount of money. I have sometimes wondered
 of the various societics and associations in the lice, if present, are more readily got rid of, and the
way of having more personal selection of stock. You, in this part of the country, sometimes say, The objection may be raised that the difference in
". Why don't you send your huyers up here? the market price of washed and unwashed wool is so
Why

we have indulged a little in what you might call paternalism. For years there was not a pure-
bred heavy-draft mare in the Province. We felt the need of assisting in the raising of that class of stock, and therefore our Government has on Several occasions sent parties to the Old Country, and sometimes to Ontario, where they have bought
outright large consignments of fillies and staloutright large consignments of fillies and stal-
lions, and other stock, and these we have resold Last year I bought some twenty Clydesdales in the Old Country, and some 100 rams in various ket price, and allowed our people to buy them at public auction at their own price. On the Cly desdale stock we lost about $\$ 100$ a head, and we Ost about the same proportion on our sheep.
That is a loss so far as the Government is direct. y concerned, but I know that it has done the live-stock industry in the Province a great amount good. Some call this paternalism. We think that it was just enough to give the Province a and that it will ultimately lead to a splendid developrent right in our own Province.
We, perhaps as much as any people, have profnce, and I wish to take occasion to that rovHon. Minister of Agriculture through the Comhas undertaken with the local departments in helping us to carry on our shows. In my capachave nothing whatever to do with the Winter air at Amherst, Nova Scotia, and yet I know that that fair, fostered by this Department, has done an incalculable amount of good.
The Maritime Provinces are first and foremost suited for dairying, and if our men have the proper means we can compete with any of you. We have splendid markets for dairy products, and cel as a sheep-raising country, and I, We also exe, am trying to do all that I can to encourage this industry, and I am glad to say that the industry We are also well situated for the raising of all classes of stock. Beef cattle do well near the
large marsh areas, of which some of you tay have heard, if you have not seen them. There is splendid room for the development of the beef
industry. However, I cannot see the same future Cor this as for the dairying industry. We have our local problems. For example
There is a splendid business supplying milk and utter to the towns. This has had a tendency the best of the cows from the back parts of the country. The result is that the best cows are being used almost entirely for the milk and but-
ter trade, and the stock in the interior parts the country is being bred from inferior animals This means that our dairying stock is not improving to the extent it should.
Then, we have great difficulty
eople to follow systematic lines of getting our inning to hover, that I can say that there is be he sticking to noticed a more permanent trend in ne special class of stock. hese, as well as or attempt at solution of ures cannot accomplish much. We have to de pend upon educative measures, upon our agricul-
tural press, which in the Maritime Provinces has nf late years accomplished wonders; upovinces has hibitions, and upon our agricultural college. This ter agency has only begun to make itself felt Jevertheless. I consider it one of the best ind ations of future development that the Agricul y upwards of 200 sons of the farms of the Mari

EARLY SHEARING
To many it may appear unseasonable to write about
sheep shearing, while chilly winds are blowing and heaps of snow are yet in sight, but there are generally
some balmy days in April, when the rams the not due to lamb till on in May, may be safely shorn successfull breeders better for it. Nearly all the most at lenst a part of the flock in make it a rule to shear flesh thrivantages are that sheep that are in good

Is ittle it any loss, as the greater weight of the un- farms are not as clean as they were forty years ago. A YEAR OF JUDGMENT ON IMPROVIDEMCE:
wathod nearly makes up for the difference in price. And
wo cladm that buyers, as as rule, take an unfarr advantage in makiling the discount greater than one third though the thrifty hockmaster will not hesitate on tha account to ehear earrfort anwashed, knowing from ex pertence the incrased growth of new wool, will more than make the for the apparent loss in the sale of the flece, and his fock will make a much better showing with their
fuluer fleoees in the tall when sales are principally made fuller flecoes in mas some risk to the health of the me and the abeep in river washing, and some risk of loss
and the sheep being cast on their backs in the warm
trom the trom the sheep being cast on their backs in the warn
toring days while reaching to bite at tormenting spring days whill reaching to bite at tormenting ticks
though with proper treatment dipping in sping an
hour

 againgt shearing thin young sheep or breding ewed
early in April, unless they are either blanketed or kept in a warm place for a week or two atter, but those in
good condition will not suffer it kept within closed doors and free from drafts for two or three days. We
heve seen sheep shorn in Jonuary in Ontario, and witt have seen sheep shorn in Je in warm basement stables after being stripped of their feeces. As a rule, where the sheep are kept in goo
condition the entire flock may bo shorn beforo goinc to grass. A rainy day may buthilized tor the purpose on
shearing, and the tock, lambs and all, dipped for the destruetion of ticks on, a day when the land is too wet
for seeding operations, or other work on the farm.

## THE FARM.

## SHALL WE SUMMER-FALLOW

Editor "The Farmer's Advocate":
We should like to see the above subject discussed through the columns of "The Farmer's Advocate," we consider it of great importance, on account of the the conditions all over the Province, but as far as wo have travelled it is a discouragtigg sight to see so many fields completely overrun by weeds. It has been of late reciasto the summer-fallow as wasteful and unnecessary We are a
 ut and so save work. How successful this plan has eear to abandon the summer-fallow. for we are sar way
 system tololowed. Up-tothate farming
 ohtaining help when neded, but to the mass of Cana-
dian farmers it is entirely outside of practical farming
din dian farmers it is entirely outside of practical farming-
The orly way to make it so is to sumerallow one-
half of the area for hoe crops; the other hall could be thoroughly worked and manured as for roots, then as much of it planted to roots and corn as could be con-
veniently handled, and the remainder sown with peas

 course one-quarter of the farm is cleaned and put the
frrtc-lass shape for seeding own. In five years the the
farm will have been gone over, whereas without the fallow it would take ten years-a period altogether too
long to successtuly cope owith weeds.
our practico
is to seed to clover the preceding spring the field intended tall pasture, besides adding fertulity to the soil. In
the
tit the spring, after root ground is prepared, wo plow it.
Our reason for this is our soil is mostly heavy clay, Our reason for this is our soil is mostly heavy clay,
and a a a generat thing cannot be properrly plowed
arter the first week in in Juno, or berore the fall rains

 we have proven to be very beneficial. We then work
it hown ine mane, then plow again in 14 th. lands
This is all the plowing it receives. ing the rest of the season, up to the time of sowing. This plan, we have proven, is better than rlidging with
the plow, as is usually done, because it leaves a firmer, moister, finer seed-bed, which, especially in a dry seag shows its superifority in a more vigorous growtin plans.
Now, Mr. Eidor, these are our views and our plans It there are better ones we shall be pleased to hear of them, and to adopt them. Wo know that "The Farm-
er's Adrocate" goes into the homes of the best farmers er's Advocate " goes into the homes of the best farmers
in the Provice If some of these will publish their
Imethods such lotters would have methons, such teters would have a mone value
many who weekly turn to its pages for information.
ditor "The Farmer's Advocate :
The long hard. Winter is now drawing to a close, and
doubt spring was never any more welcomed than the no doubt spring was nevoriefy mo account of the great shortage of todder, as many farmers have been buying since shortly after the now year, and there are others who in the earriy fair has or straw, and, as a rule, fodder is demanding a hay or straw, and as as ar melling from 87.50 to $\$ 10.00$
high price. Oat straw is per ton, according to quality: No. 2 hay, $\$ 18.00$ and
$\$ 17.00$, and as for No. 1 hay it is almost out of thie question. It appears there is no No. 1 hay, as there is no set market price, but as a rule it sells for si8.00 and $\$ 20.00$ per tor. For this great shortage of fodder
the farmer can blame only himeat in a great the farmer can blame only himself in a great many
cases. In this part of Ontario there has been abundance of both hay and straw and all other kinds of fodder or at least eight years in succession, and it appeared to many that hard times would come aggafn no more, and those who could have easily stored away at least
half a winter's feed ahead, only forked it under their horses and cattle, and what was left in the mow or surprising to hear the thossip wherover a number of farmers chance to meet what they are going to do next time they have a big crop, and it will be well for thom they only keep their word. They are going to sow going to be caught like this again. The writer has going to en corestion time and again in the past fow
 prosporus summers soventy-five por cont. of the form-
ers will torget this prosent hard time and will be going ers will forget this prosent hard time and will by going
in for more stock than their tarmm will carry How quickly people do forget 1 Last spring pricees sor milch cows were from $\$ 35$ to $\$ 40$, and there wes not
an auction sale where loss than these Iguree were paid but, alas, the tide was turned by the early tall, when many farmers who pald $\$ 83$ and $\$ 40$ were Yorced to
for $\$ 10$ and $\$ 12 \mathrm{a}$ head. They thought 14 cheaper to sell than to tide them over winter with foder 'at famber
prices. It was a mad rush at every auction sale here in Enstern Ontario last spring, whenever the auvo Hioneer shouted, "Now for the cattie" One wae cart about milch cows and young stock. This seeson it is as far the other way. We hardly hear of an auction saier, and the attendance, as a rule, is smaller, and the petter tor the average farmer to keop leass bo mock, and a better quality, rather than go into fo stronger SUBSORIBER.

## What the Competitors Thought of the Split-log Drag.

instituted a "Split-log-drag" "Competition. The
objects were (1) to bring about a thorough testing of the King split-log drag in Canada, ; (2) To
demonstrate, if the tests were successful, as Farme be mathod at once easy and inexpensive of improving earth roads and maintaining them in the best possible condition.
After the entries had closed, the following questions were addressed to those who had sigg:
fed their intention of entering the competition: 1. Is the split-log drag a successfiul means keeping earth roads in condition? 2. So far as you
benefits of its use? 3. How did you make your drag ? Can you
suggest any changes that you think would improve When is the most important time or times on an ordinary road in the average season? 5. What did it cost you in casi compare with
how much time did it take ?
6. How does the split-log drag comper the old-fashioned road leveller?
7 . What, in your opinion, would be the best course township councils could take in order to
inusure the dragging of their roads in the most economical and advantageous manner? The answers to these questions amply justified
our confidenoe in introducing the experiment to our confidence in introducing the experiment oo
the public; hence, as another season for road-
gin

The split-log drag is a successful means of
keeping earth roads in condition; used early in keeping earth roads in condition; used early in
the season, and at frequent intervals, especially after every rain, as soon as a little dry. By its early use, when the roads are quite soft, and continued use as they are drying, it makes a hard some earth towards center of road, making a uniform grade, filling up all the ruts, and making a good roadway. I took an elm $\log$ about 9 in. in diameter and seven feet long to the mill, and ter. These I joined together, about 30 inches apart. After using some time, I concluded that two handles would be an improvement, and added thom, which I found great advantage at timen
in moving it about and keeping it at the desired in moving itace. After using my drag for some time, I had the irons that had been used on a road machine or grader put on, which made it much bet-
ter for hard, dry roads ; and, when the roads are soft, I turn the other side down that has no irons on. When the roads are quite soft, and the earth or mud has a tendency to shove or push
in front of the drag, I then run the drag, as it were, backward, and the mud, instead of pushing ahead of the drag, passes under, the drag slicking down, filling up all the ruts, and soon the road change I would, make now, if I made another drag, would be to make it wider ; that is, I would use a $\log 12$ inches in diameter, instead of 9 inches; or I would make it of two plank, say 3 or 4 in that you get the same or every advantage in the other drag. The advantage of having it wider or higher is that it would not clog up so readily
between the two sections of the drag. This would be especially an advantage where the drag is used in grading, as I have made roads-that is, graded them entirely by using the drag, and, when the earth is quite dry, by plowing and cutting it up
well. The drag is not a very slow or poor tool to make a good road, and, in ordinary roads, one can do with one team nearly, or quite hall, as much grading as two teams will do on the road
machine. For general use, I think 6 feet long enough. I have two drags ; the second one made of 2 -in plank, and use mostly on soft mud
to slick the roads. I would think that, in ordinary seasons, about six draggings would do very
well, but more would be bote日r. The cont of aaw.
ing the log was 50 cents ; the time spent in tak ing log to mill was about four hours; in making,
about four hours. The drag is an improvement on the old-fashioned road leveller, doing twice the work, and doing it better, but it is harder work for the team. Probably the best way for municipal councils to adopt to insure the dragging of the roads would be to appoint one man in, say, every school section, or perhaps, better to it that the roads were dragged as often as required, and at the proper time. The work, too, might be let by contract for the season, and an inspector appointed to see that it was done. The
system of offering prizes, too, for those who kept best-dragged roads in their divisions, might also work satisfactorily. The difficulty in letting the work by contract for the season would be the
difficulty in estimating the amount of work that might be required. as the seasons vary so much The past season required, on account of the frequent rains during the early part of the season,
dragging every week. A few years' experience dragging every week. A few years experience
would enable one to know just what the work would be done for, and the number of miles that one man could advantageously care for. I might say the mile of road I had charge of was closely
watched during the season by some critics who had no faith in the simple split-log-drag device; but the results of the season's work have shown for themselves, and the would-be fault-finders have been silenced, and many split-log-drag converts the drags will be very much more extensively used all over the Province, with the result that great-ly-improved roads will be had during a large por-
tion of the year. "The Farmer's Advocate" should be entitled to the lion's share of the praises resounding from every quarter. I would advise every farmer to make a drag, as they cost so little. Then I would allot a portion of road
near or adjoining his farm that should be his near or adjoining his farm that should be his
special portion to look after and care for, so far as the dragging is concerned, and see that it is dragged as often as necessary, and at just the right time. No man knows better than he wh is on the ground just when the work shoud may be ready, and a man living some distance away knows nothing of the condition of the road, besides the time spent in getting there to do only a little
work. Every farmer ought to take enough interest in the roads to at least see that the roads adjoining his farm are kept dragged. If everyone did that, which would require very little time,
we would all have very much better roads to we would all have very much
travel the greater part of the year.
Lincoln Co., Ont. $\quad$ W. B. RITTENHOUSE.
The split-log drag is a $\qquad$ means of keeping earth roads in condition, if used at the proper time. It levels and haver tried. It does not cut or lift as easily as when dragged with the heavy machine. I made my drag from a $2 \times 9$ inch elm plank, 8 feet iong, two peres, apart. We thought this the better plan, as and get plank, and if ours worked well, they might be induced to construct one. The most important time to use the drag is when the roads are quite soft. The number of times would the season, and the amount of heavy teaming done in your beat when wet. It cost us in cash 45 cents; time, one-half day. Later in
season had steel put on both halves, which cost season dollar. There is no comparison at all between the split-log drag and the old-fashioned road leveller; it simply outclasses the old-style road leveller in making the road smooth and
hard. is my firm belief this simple machine can be made to revolutionize common earth-road maintenance, if the interest of farmers can be aroused. But the thing seems so simple that it is a matter of conjecture just how beter way to introduce the drag would be for the Government to procure the services of one of the present split-log-drag competitors to exciting or arousing the interest of the farming community in this matter-a man who, in the opinion of your commissioners is possessed of the
ability to demonstrate the working and benefits ability to demonstrate the working and benefits
to be derived from the use of this simple machine. Then the councils might act at their discretion. Essex Co., Ont. SYLVESTER STUART

The split-log drag is a successful means of eeping earth roads in condion, but it does not work well among stones; also, is no good keeps the ruts out of the earth road, and keeps the road grading up, instead of hollowing out, as it loes where not dragged. The most importan face of the road becomes broken with hear Traffic. It should be used about twelve times in
away ahead of the old-fashioned road leveller lragging of their councils, in order to insure the and advantageous manner, should give each man a that the time spent on it shall about equal the amount of statute labor. W. S. McILQUHAM.
Lanark Co., Ont.

Is the split-log drag a successful means of keeping earth roads in condition? Yes. It is good condition that I know of. My drag is made of two pieces of pine timber, 8 inches square by $8 \frac{1}{2}$ feet long, and each piece $3 \frac{1}{2}$ feet and 4 -in.-wide steel shoeing put in front. I find the best time to use the drag is when it is thor oughly dry on top and a little soft under,


Effect of the Split-log Drag
Clay road dragged during 1907, by w. S. Chisholm
Halton Co., Ont.; one of the split-log-drag brigade. Photo taken Nov
that the drag will cut off corners, but not soft enough to clog. My objection to dragging roads
when wet is that too many people drive when wet, and spoil them after being levelled. To keep in good repair, roads should be dragged 8 or 10 times. The drag cost me about $\$ 3.00$ in
cash, and two hours' work of one man If the councils would supply each beat with a drag and employ a man to use it for the season, the roads would be kept in good repair, and cost less money than by the present system

Is the split-log drag a success
keeping earth roads in condition?
a successful means class : earth roads in fondion firstoles. Our drag was made from an oak log,


Fig. 1.-The Drag as Commonly Made.
sawed in center, with three rungs in it. A smaller
log would make it lighter, and, I think just good. Use the drag when the road is rough or when it is a little dry, and before it rets rain, It makes a splendid road. In dry weather, it should be used about every week, if the road is
much used. My drag cost about $\$ 1.25$, including much used. My drag cost about $\$ 1.25$, including
grab-ring for chain. Two men cut down the tre and made it in about three-quarters of a day. I tring of their roads by giving parties a dragpiece to keep smooth, and allow statute labor according to time occupied on road. A reccord of
time should be kept to show pathmaster in sec
ions where road work was performed by farmers.

The split-log drag is one of the simplest and best means of keeping a road in good condition.
It keeps the road smooth and hard. drag out of a beach log 11 inches in made my and 8 feet long. Had to put mortise through front log to put chain through to fasten on crosspiece. I find the best time to use the drag in ground is dry enough so it will not ball. should be used as often as the road gets rough. It cost 35 cents in cash, and about one and a half days labor. 1 think it is ahead of leveller, because one man with one team can use it when
he sees fit. I think it would be best if the councils would hire a man for every three or four miles to use the drag whenever required.
Haldimand Co., Ont. LEVI DREHMER.

Is the split-log drag a successful means of keeping earth roads in condition? Yes. It is
also a successful machine to grade the most des-
perately flat road. The chief benefit I have deperately flat road. The chief benefit I have de-
rived so far is that I have made an almost perfect crown from a flat condition. It also makes a great rainfall in late autumn or early spring. The drag is made as described in "The Farmer's Advocate." I made another one of three pieces on the angle, which is held in place by two rods 5 feet long, and shod with wide waggon-tire half way across the drag. This is a very necessary
article when grading the road dry article when grading the road dry. The most
important time to use the drag, to obtain important time to use the drag, to obtain a firm
surface, is in early spring, or after a heavy rainfall in summer ; but unless the road is very, very wet, I find it impossible to make the mud slide
from the drag. The cost of my drag was pracfrom the drag. The cost of my drag was prac-
tically nothing, though I would not have it exceed $\$ 1.00$, and it only required one-half day to construct it. The split-log is not to be compared with the old-fashioned leveller, under any
consideration. I think that if the introduction of the split-log through the famous journal. "The Farmer's Advocate," and the successful and proper use of the drag, are not enough to convince every ratepayer of the benefits derived, that any
course a township council might take would in my opinion, be utterly fruitless. I have in mind
several who have already resolved to build and several who have already resolved to build and my drag.
II. W. PAR

The benefits of the drag are that by it we can keep the road well crowned in the center and
smooth on the sides to shed the water becomes hard in the center. In making the drag we followed directions given in "The Farmer's
Advocate," made it 6 feet long, placing the two Aalves about three feet apart, and held in place with three cross-pieces driven into holes made with two-inch auger; think 6 feet the best
length. The most important time or times to length. The most important time or times to
use the drag is as soon after rain as the drag will clean. Our clay is very sticky ; it does not clean when it is wet. The number of times will depend on the nature of the soil and amount It was in good order most of the time times been graded only one and two years ago, and was from 27 to 30 ft . wide, and had more heavy travel
on it than any other clay road in the on it than any other clay road in the township.
Many roads could be kept good with half the Many roads could be kept good with half the
work. Our drag was made of a cedar log, 30 cents ; three cross-pieces, 5 c . each ; board, 18 c .,
five hours' work for one man, 65 .; ; total $\$ 1.28$. five hours' work for one man, 65 c ., ' total $\$ 1.28$.
I think a light drag the best, as one team can work it, and it can be weighted to suit circumstances. I think the split-log better than the would not be convenient to get two or three teams to go at the same time. The drag will township councils should perhaps better. I think for all the roads, according to travel and local circumstances, and have them built on the center
of the road allowance with the grader; then it of the road allowance with the grader; then it
would be easy to keep them in repair with the
drag. The roads in drag. The roads in our township are all
widths, from 20 to 30 feet. I think from 20 to 24 for the widest would be about right. have had taken of the mile of road on which I have been using the split-log drag for 7 months. $20 t h$, what they are like, and the amount of
travel this piece has been kept in this shape for seven of road with the exception of the last weck in October wet at that time and got cut up it was very that the split-log and got cut up, and froge so
there came not not work. But and the split-log drag, which drew out the frost, and the split-log drag worked fine, I think the
split-log drag is the best thing we have used on
our clay roads yet. Farmers around here tell me
that the mile of road was never in such good shape
Halton
Co., Ont.

## HOW TO MAKE THE DRAG

Following is an illustrated description of the drag, as recommended for use last spring : The two halves of a split log, ten to twelve inches
thick, are set on edge 30 inches apart, both flat thick, are set the front. The cross-pieces are wedged in two-inch auger holes bored through the slabs.
In other respects, the cut is self-explanatory. If working a clay or gumbo road, it is advised to put iron (old wagon tire, or something of tha ${ }^{10}$ for softer soil, at end of twelve months.

AN IMPROVEMENT IN THE DESIGN. Years of experience have suggested to Mr
King, 'the inventor, a couple of modifications which greatly strengthen the drag and facilitate it operation. These will be clear from the following brief article prepare
cate " by Mr. King himself

The only real improvement in the construc tion of the King drag was made originally with a saw. As I used the square-ended drag I first
built, the ditch end of the rear slab stuck out built, the ditch end of the rear slab stuck out
past the end of the front slab (the drag working at an angle), and, by crowding over into the bank, interfered with the working of the front slab. The trouble was remedied by removing the offending member with a saw. Profiting by
the knowledge thus gained, I saved labor and lumber in building all other drags by giving the rear slab sixteen or eighteen inches set-back;
that is, instead of building the drag square, and that is, instead of building the drag square, and
sawing off the end of the slab to get it out of the way, I got it out of the way by giving it set-back before the holes were bored. The cuts make this quite clear.
" The brace running to the projecting end o the front slab, was an after thought; it is of
great value in strengthening and stiffening this end, which is exposed to more stress and rough usage than other parts of the drag. It is well to put the drag together and wedge the cross-
stakes into the front slab. Be certain everything stakes into the ricely, then measure for brace; cut it neatly half an inch longer than the measured length. Now drive back the rear slab until the
brace drops in easily, then drive front again until brace drops in easily, then drive front again untio
the brace is caught snug and tight, when you may wedge the stakes into the rear slab, knowing the brace will stay where it was put
" The accompanying cuts were designed for the United States authorities, and, in my opinion after HOW TO USE THE DRAG
The inventor has prepared the following road dragging "catechism," telling how to make and
work the drag. This was published by us a year work the drag. This was pub benefit of new sub
ago, but is reproduced for the ben scribers :
Would it not be better to plow the road be
fore dragging ? fore dragging ? No. Plowing gives a soft foundation. Plow-
ing the middle of the road is a relic of the old ing the middie of
dump-scraper days.
dump-scraper days.
What do you do when there are deep ruts in the road? Drag them. If you drag when the surface is
quite loose and soft you will be surprised how quite loose and soft, you will be surprised how
soon the ruts will disappear. How do you get the dirt to the middle of the road By hauling the drag slantwise, with the end that is toward the center
the rear of the other end.
But suppose the road is too narrow?
First drag the wheel tracks. After three or First drag the wheel tracks. Aiter three or
four rains or wet spells, plow a shallow furrow just outside the dragged part. Spread this over the road with a drag. At each plowing you widen the roadmed
How many horses do you use ? Two, generally; three if it is just as handy; whe when breaking colts-a good sold two men on deolts. How do yout drain the road? middle of the What continually, the road will drain itsclif.
Why not make the drag out of plank? You can, and do good work, but the split
the best. The plank drag is not so stif. "? Because drags so made have a tendency to slip Tr the bumps.
Don't you grade up the road first ?


The cost is variously estimated at from one to may be, and let us support that member three dollars. How do you keep the drag from dodging in this particular
around sidewise? By not loading it too heavily. If a drag
dodges around the earth you are moving, it is
 Will the dragged road stand heavy hauling? heavy hauling than an undragged road, but not so much as a macadamized or well-kept gravel


## Fig. 2.-The Improved Split-log Drag.

Designed by D. Ward King, for the United States De-
Don't drive too fast. Don't walk; get on the drag and ride. Don't be particular about
material ; almost any log will do. Don't try material ; almost any 10 g will do. Don't try
to drag with only one piece ; use two.

## AND THE FARMER WALKS. <br> Edito "The Farmer's Advocate"

Numerous articles have appeared in your columns regarding automobiles on country roads, and agree with the writers that, since the them, without being in constant danger of life and property. Automobiles are not common enough here for most horses ever to get accustomed to


Fig. 3.-Plan and Elevation of Split-log Drag
Designed by D. Ward King, for United
A neighboring well-to-do farmer, on a main road, wished to have a horse with which he could
feel quite safe, so he went to London and saw a suitable driver standing unattended on the market, and automobiles shying in close vicinity, so he purchased it at now he could drive in comfort. It saw no automobiles for a few weeks, and when at last it met one on the country road it ditched him, so now his the field to attend town or take a mestricting all driving to business, pleasure driving being eliminated.
It is a well-known fact that, on roads where there are no police to interfere, motor cars run at or near dust, and, in some instances, removed. obscure
Now. Mr. Editor, would you kindly inform your readers who has the authority to restrict automohile traffic to certain roads and to certain
days? This idea of restriction is not new, for, as we all know, in our larger cities there are certain streets (where many of the more dangerous
of these automobiles have their homes) which are of these automobiles have their homes) which are always cos's load of produce for the market. . the farmer's suggest that you inform us to whom we are to look for a aw regardize and pledge the
Then let the farmers organize Then let the farmers organize and pledge the
would-be members for the township or county

## HOW TO GROW AND SELECT ONE'S OWN SEED CORN.

It is not too early for the corn-grower to give some thought to the corn he will use for seed to plant his 1908 crop. All up-to-date farmers, in fact, will have made provision for this several
months ago by selecting desirable ears from months ago by productive plants from last year's crop, and storing the same in some dry, open place beyond the reach of mice and other vermin. The more progressive of this class will have gone
step further, by providing a special seed-corn step further, by providing a specia, seded
plot of about one-quarter acre last spring, isolating this, as far as possible (at least 40 rods, unless otherwise protected) from fields of other varieties, to keep the strain pure, planting each
row of the same with corn from a single ear, rerow of the same with corn from a single ear, so the plot as they appear during the growing season, and selecting with care a number of ears,
first from the best plants in the best rows in the plot. A sufficient quantity will have been selected in this way to plant another plot of this sort during the coming season, the best of thie
remaining ears being used to plant the general field crop. Those who have not followed this system will
do well to begin this year. The mere selection of good-appearing ears, irrespective of the char acter of the plant which practice, since the ability to produce good yields cannot be determined simply by the appearance of the ear. The points which are taken into consideration by our corn judges, when judg-
ing at shows, it is true, are undoubtedly correlated to some extent at least with productiveness and quality, although we have little data to ove thin definitely.
concern is to secure sede capable of pro-
ducing the largest yield per plant, and therefore per acre. To
get such seed, the system adopted by the Canadian Seedgrowers' Association, which is partly exto be the simplest and most effective for the majority of farmers. This system makes provision for
small plot of at least twenty rows, with 50 hills in each row, to be located beyond the
reach of danger from reach of danger from other varieties which may be growing near.
Each of the rows on Each of the rows on
this plot is planted with corn from a with corn $\begin{aligned} & \text { rrom } \\ & \text { single ear. This is } \\ & \text { the crucial point of }\end{aligned}$
then the whole system,
since such an arrangement enables each ear to show exactly producing. Past experience with this system has shown Past experience warkable variation in the pro-
that there is a remare
ductive capacity of individual ears, the determinductive capacity of individual ears, the derermin-
ing factors being first, general vigor of growth; ing factors being first, general vigor of growth, secondly, the percentage of barren plants pro-
duced by each ear or row; and thirdly, the percentage of plants in each row producing only nubbins. Where special selections are made
year after year from those rows which excel in year after year from those rows which excel in
these points, the general average of the special these points, the general average of the special
plot from which the selection is made will rapidly rise until it is almost, if not quite, equal to the best row. Such a plot, therefore, serves two distinct functions, viz. : First, it enables the grower
to isolate and perpetuate the most productive to isolate and perpetuate the most productive
ears year after year; and secondly, it provides an annual supply of high-class seed for the main crop. The advantages of securing seed for a special plot in this way contrast most favorably with the ordinary "chance " methods, and should appeal to every grower. It is to be hoped that many
growers, especially throughout Ontario, will try growers, especially throughout Ontario, will try
this plan this year. While a very simple process, it is nevertheless based on scientific principles, and has proven in actual practice to be most commendable.
Those desiring special assistance and guidance in undertaking to carry out the system, and who may wish to be kept abreast of the times in all
matters pertaining to the successful growing of
high-class seed corn, are advised to join the Canadian 'Seed-growers' Association, which has its
headquarters at the Canadian Builing, tion offers two valuable trophies, one for the Flint varieties, and one for the Dents, for special selections of ears taken from the corn breedingplot each year. These selections are sent to
Guelph and exhibited in the Seed Department of the Provincial Winter Fair, where they are judged, and the score combined with that made in determining the final award. By this plan, in determining prize corn must represent strains which have all prize corn must represent stahitable performance records behind them.

## SALT FOR MANGEL CROP

The value of salt for the mangel crop hias oiten been demonstrated, and it was emphatically shown in experiture on eleven farms in eight counties, as shown in a report issued a year ago. The average results were
only 3 tons 14 cwt . per acre without manure. Fifteen only 8 tons 14 cwt. per acre without manure. Fifteen
tons of farm manure gave an increase of 12 tons 19 tows of The eddition of 4 cwt. of superphosphate made the crop $2 \frac{1}{2}$ tons more; the further addition of sulphate of ammonia made it $1 \frac{1}{2}$ tons more still and where kainit, at the rate of 2 cwt . per acre was manure, another $2 \ddagger$ tons brought and the farmyard manure, another 24 tons brought the yield up to 23
tons 13 cwt. But 4 cwt. of sall, instead of the kainit,
gave an increese of 3 tons 7 cwt., the total yield being gave an increese of 3 tons 7 cwt ., the total yield being
241 tons, or 20 tons 16 cwt . more than where no 241 tons, or 20 tons 16 cwt . more than
manure was used. The farm manure is valued at menure, was used. The farm manure is valued at per
single crop would not exhaust it; and the whole of
ner manures cost $£ 52 \mathrm{~s}$., while
10s. per ton, was worth $£ 10$ 8s., showing a profit of 15. 6s. per acre. What is most remarkable, however, is that 4 cwt . of salt, costing only 4s., when added to
the farm manure, superphosphate, and sulphate of ammonia, gave an increase of 3 tons 7 cwt. of mange

SEEDING PRACTICE IN RENFREW CO., ONT $\begin{aligned} \text { For seeding down, } 1 & \text { find about } 8 \text { lbs. red clover } \\ \text { seed, } 2 \text { lbs. alsike and } 2 & \text { lbs. timothy per acre a good }\end{aligned}$ mixture for hay, and for pasture I prefer same, only
edd 9 lbs. white clover seed per acre. For green feed ror summer, I find the most improved method of preparing soil for seeding to be: First, plow land
riding plow, with a three to five horse team, according riding plow, $I$ use large 18 -disk harrow, drawn by two team; and next I harrow with two common iron harrows joined together, drawn by a four-horse team; then I use a common seed drill drawn by two horses.
I find it a good plan to go over the places that are liable to bake with a cultivator as soon as dry enough to work

Quite a number of farmers in this section are adop ing the plan of the three-horse and four-horse teams.

CO-OPERATIVE SHREDDING OF CORN FODDER. Editor "The Farmer's Advocate" I noticed enquiries about shredded corn fodder some
time ago, and whether it would set fire to a barm.
will not try to answer the latter question, but will tell will not try to answer the latter question
how to prevent shredded corn fodder from heating or becoming musty. As soon as the shredder starts, com-
mence mixing oat straw with it, about equal parts of mence mixing oat straw whe man mored if you want to feed
each; or more straw can be mixed The straw absorls the more of than of the fodder.
surplus moisture from the fodder, becomes moist, and
and it apparently with as much relish as the fodder.
It is best to plan for the shredding at threshing time, by filling half the mow with straw, leaving the other half empty to shred into, thus saving labor in
mixing. Should the mow be full of straw, one may shred on the barn floor, mixing from mow alongside.
This makes it convenient for feeding. In a basement barn it is well to leave feed chutes open, as a few
days feeding will clear them all right. 1 have treated days feeding windern fodder in this way for several years, and
shredded-cor
It is also more never had it heat or gel must, and bought a corn harvester for $\$ 150$, and a good
second-hand corn shredder for $\$ 150$. We have found second-hand corn shredder for $\$ 150$. We have found
this plan to work satisfactorily, as we can cut or this plan to
shred when we find weather and corn suitable, and
don't have to wait very long for machine.
WILLIAM EDWARD

## SHORT SLINGS AND STEEL TRACK

Editor "The Farmer's
I saw the question asked by L . W.,
s.
armer's Advocate," What is best sling to
ing used both long and short ones, I very much

## It The Farmer's $\Lambda$ dvocate

terest is not taken in maintaining and increasing the productiveness of our soil. One often feels that our Farmers' Institutes would be a great deal more valuable were a considerable section of each meeting devoted to soil problems. This is a matter in which all are interested, for upon the
soil is built the whole superstructure of agricultural activity. Unless the soil yields the nourishment, truck-gardening, root-growing, corn cultivation, fruit, the live-stock industry, and vineyard activity, are all of no account. Further,
the science of pest-fighting is at best but in its the science of pest-fighting is at best but in its
infancy. The problems of fruit transportation are far from a complete solution. Tariffs are ever changing. But the one fact that the farmer
may tie to is that, if he sows good seed in soil may tie to is that, if he sows good seed in soil
in a gaod state of strength and cultivation, he may be reasonably certain of at least a fair crop.
Some men who have studied this problem both Some men who have studied this problem both
theoretically and practically declare that we could easily double the productivity of our fields. It farmer may, if he puts "a stout heart to a ste brae," grow three bushels of grain or roots where he is now growing but two. The yield of grain prise to the average Canadian farmer. Skinning a farm is not only a sin against posterity, but it is a short-sighted business policy for the present-
day farmer. Freeholder landlord and tenint day farmer. productiveness. Just now the farmer will need to consider this problem. In a few weeks he will
have done his year's portion of laving the found have done his year's portion of laying the founda-
tion for this year's harvest. When the seed is once in the ground, as far as that field is concerned, his opportunity is gone. He can but wait for harvest. Of all the forces that go for harvest-
making, the farmer controls only the seed and the making, the farmer controls only the seed and the
cultivation and the fertility. So important are these forces, however, that he cannot afford to neglect a single furrow, for profit in crop-growing
depends not upon the number of acres of grain depends not upon the number of acres of grain
sown, but upon rational treatment. There is sown, but upon rational treatment. There is
more money in the cultivation of the soil than
some of us dream some of us
Wentworth

IMPROVED METHODS OF POTATO-GROWING In potato-growing, as in every other branch of agriculture, up-to-date potato machinery must be
used. By using good machinery, the work is onetter, and in less time.
potatoes, I prefer a sandy-loam soil, which ing well drained either naturally or by tile. An
ideal place for potatoes is ideal place for potatoes is on a clover sod, but
any of above kind of land in good condition with a liberal application of rotten manure, or complete fertilizer per acre will grow a good crop
of potatoes. In preparing the soil of potatoes. In preparing the soil, I plow the
land in the fall. In the spring I spread from lifteen to thirty loads of manure to the acre, and then plow, harrow well, and roll. If commercial sertinzer is used, 1 do not plow again in the It is very important to have. good seed. I dum size, and cut them to two potatoes i I do mot In planting. I have used a potato planter for se eral years, which has given excellent satisfac-
tion. It marks, opens the furrow, distributes the fertilizer, plants and covers the seed all in the operation. It requires a team, man and boy to
operate it, and will plant from five to seven acres A week after planting I use a weeder, which
kills all small weeds and levels the light ridge left by the planter. I continue using weeder inches high, then I begin to use a two-horse rid-
ing cultivator. At first I cultivate deeply, and Ing curtivator. At first 1 cultivate deeply, and
as close as possible to the plants; but as they
grow, I cultivate shallower and farther from the plants, so as not to disturb the roots.
As soon as bugs appear, 1 spray vines with mixture of two pounds of good Paris green and
fifty gallons of water. This will be sufficient for
two acres. In some seasons the potatoes are not affected by blight. I believe it pays to spray several times for Whight every year. I use Bor-
doaux mixture. There are a few good sprayers
 Which 1 use is made of heavily-galvanized iron,
and holds a arout fity y-five gailons. It has a
powerful pump, driven hy a horse or team, that

ging the potatoes, there are a number of dir ferent potato-digging machines in operation whic give good satisfactio
Lambton Co., Ont.

## ROUND CEMENT SILOS IN PERTH COUNTY

 Editor "The Farmer's Advocate"Answer relating to the construction of rints a result of I give you the vation and inquiry, and think they are substantially correct:

There are thirty siloes within a radius two miles of Avonbank cheese and butter factory, ment siloes. Of the number named, eleven are round cement structures. The first silo was built here fifteen years ago, and the first wooden ones are being succeeded in every case by round cement ones, all built with the same steel casing. The siloes are twelve and fourteen feet in diameter and generally thirty-five feet high.

There is no doubt in my mind that the in use anywhere. It is composed of sections of steel band iron, with proper couplings. There are three entire rings outside and in, so that there are always two rings filled, allowing speedier work and more security from accident. There is no scaffolding; just two poles to attach the lifting chains for hoisting cement. The platform and mortar boards, etc., merely rise, and are attached to the casing; and if the first ring is properly set, it rises, by taking off lower ring and putting on top, and so on, until all is complete. The concrete is hoisted in buckets to the man on cement man of Strate designed we a practical his instruction They have been in ur years, and they have been used for perhaps thirty or forty siloes, and I have not heard of a defect in any of them. The party who is using them now has more contracts on hand for next summer than he can do.
. The best foundation is heavy footing stone from the quarries, good and wide. The walls ing uniform thickness from bottom to top, being six inches, beginning at bottom with 6 of
gravel to 1 of cement, and ending at top with 10 or 11 gravel to 1 cement. There is no stone used -all best gravel. Each course is 2 ft . 5 in ., and wire. The doors, which are about $2 \times 2 \frac{1}{\frac{1}{f}} \mathrm{ft}$., are reinforced top and bottom by iron, such as old wagon tires, etc. These siloes are better drained
to save foundation. The roof is put on in many different ways, the octagon roof, with ventilator, being no doubt the best, but it is expensive, costing in the neighborhood of $\$ 50$. A good roof is sisting of cross-pieces $3 \times 10$ for rafters, tapered io 4 in . at ends, covered with matched lumber, and covered with galvanized iron, soldered. It is also octagonal; has a manhole in top; can be
put on for $\$ 15$ or $\$ 20$. It does not look so well, but is just as serviceable. The siloes are coated with a brush, with pure cement, both outside and inside, to keep out, as well as in, the moisture.
4. For a 12 -foot silo, it is estimated that one ment is required per foothirds of a barrel of cepounds of wire for the whole silo. These siloes are built by contract, the price being $\$ 3.50$ for a
12 -foot, and $\$ 4.00$ for a 14 -foot silo 12 -foot, and $\$ 4.00$ for a 14 -foot silo. The farm-
er furnishes the gravel and boards the men. er furnishes the gravel and boards the men.
Three men do the building, and in good weather erect a silo every week. It is recognized that a good practical man is required, as the structure
is intended to be permanent, and the builder must is intended to be permanent, and the builder must
have not only ability to pack the material propdo not attempt judge of the quality of it. Farmers The steel casing of which I speak will, barring accostly in the beginning, will be cheaper in the end, and much safer, no accidents having happened so far, while a short distance from here a may
was killed last year when working with woodd casing. In the course of a week or two I may be glad to answer interested inquirers who will furnish stamped envelope. JOS. MOUNTAIN.
Perth Co., Ont.

SEEDING PRACTICE IN NOVA SCOtia. Editor "The Farmer's Advocate ormation on seeding and tilling in this section my first advice is to get good seed, the best obow cheap and dirty seed must not complain they have poor crops and weedy fields. By good seed is not necessarily meant going to the seed merchants and buying grain grown in some other Province. Many Nova Scotian farmers have better seed grain in their granaries than can be bought, would they only $p$
light grain and weed seeds.
D. Wheat is the first grain sown; in an average drar, from the last of April to May 10th; if nearly two bushels is used. Oats is the next crop sown, usually from 5th to 12 th May; $2 \frac{1}{2}$ to bushels per acre, according to the richness of even later, it will ripen nicely. Mixtures, such as oats, peas and barley, are sown in proportion of ushel peas bushel peas, per acre, sown about same as oats.
Duck-bill barley and Banner oats will ripen about he same time as the peas. The writer has had excellent results the past two seasons from a mix-
ure of Mandscheuri barley and Daubeney ture of Mandscheuri barley and Daubeney oats, Mangels are not grown as extensively as forthey require one or more hoeings, and more cultivating. They are sown about the same time as carrots and parsnips, from 20th to 25th May. Potatoes are usually all planted by 24 th of
May, 8 to 12 bushels per acre being amount May, 8 to 12
usually planted
Turnips are sown here from May 24th to June 1st. Some years ago it was thought wrong to sow before June 8th to 15th, but experience has the crop. Improved varieties may have something to do with increased yield, without turnips becoming stringy or woody, as it was formerly vise anyone to try the Kangaroo turnip, especially if he has a good soll of a sandy-loam nature. It is no trouble to get from 900 to 1,400 bushels
per acre in a good season. This is where the Maritime Provinces excel in root-growing. We not and can not grow corn for husking or
ilage : it is too great a risk, but we can beat any place on the continent, I think, in root cul-
ture; and, while large quantities are grown, there is not enough, even yet. In a dry season, such crop with those who kept the cultivators going, and these were the people who did not have to buy as much Quebec hay as they otherwise would.
Siloes are not, so far as the writer knows, increasing in Nova Scotia, nor the area likely to.
If I am wrong on this question, I will be glad if come reader will put me right. of clover mostly Common red is the variety or chaver are are through cultivating their root crops. The usual
mixture is 6 to 9 pounds red clover, 2 pounds mixture is 6 to 9 pounds red clover, ${ }^{\text {a }}$ pounds
alsike (where sown), and 1 peck timothy. This should be reversed; not enough clover is sown
pastures are not seeded out as in Ontario, but pare cropped a few years, then, if needed, are pas-
tured Alfalfa-growing, so far, has not been a success
in these parts. While it might be made to grow in these parts. While it might it will ever be
if kept persistently, I do not think it
a staple crop in the Maritime Provinces. Our winters and excessive rainfalls are against it. The soil best suited for the growth of alfalfa is
that which is deep and sandy. It should never be grown on stiff soils, for, unless the roots can
penetrate deeply, good results cannot be obtained. Three years ago I succeeded in getting a stand of alfalfa 18 inches high, with rootlets
long, but could find no sign of nodules. I used
nitro-culture according to directions on part of fitro-culture according to directions on part of nly one
2lifa will not is curious how on clay has become broad 2asted. As a matter of fact, we known by experience that in Ontario alfalfa is the best and
surest success on the very stiffest clay hillsides,
land the like of which is unknown in the Maritime Provinces, unless it be on the heaviest marsh
ands. Subsoil and surface drainage, with
and abundance of potash, lime and phosphoric acid
are the essentials for alfalfa. Alfalfa roots will Tre the essentials for alfalfa. Ahsoil our corre-
"1) throught the hardest clay subse
pondent ever saw, if the other conditions are ht.-Editor.]
other half with alfalfa and timothy. Spring
wheat Wheat, as cover crop, was sown at the rate of
five pecks to the acre. The land was heavily ma-
nured the year hefore. Th the nured the year before. In the following season,
where the red clover was sown, I had a heavy
burden burden of clover ; on the part where the alfalfa ox-cye daisy. Wast year, double the crop was cut where the clover had grown, thus showing the bitrogen gathered, as well as the extra humus re-
nither
sulting from sulting from the decayed roots.
Many different kinds, of soiling
Many diffirent kinds, of soiling crops are grown. A good one, used quite extensively, is, White Mar-
row peas and oats, half and half. The hairy
vetch is vetch is grown somewhat; not in any great quan-
tity, though, as it is difficult to cut, and the seed is expensive. One of the best soiling crops, and
one that is largely grown, is the Purple-top one that is largely grown, is the Purple-top
White Milan turnip, sown in the drill about the first of July, and every succeeding week, as long
as it is thought advisable. It furnishes succulent food for cows all through the dry season. It is easily grown, grows a heavy crop, easily pulled, sults are obtained. because of bad flavor, I believe quite a bit can be fed, if done so intelligently. I have fed it without any bad effects whatever.
As regards implements used here, hand-sowing of grain has to a large extent been superseded by the ten-hoe drill, and here is where the mistake should be used. One man with a basket can sow as much grain in a day as two men, four horses
and two ten-hoe drills, and, unless the season is a very dry one, the results are just as good where sown by hand as sown by drill. The only or a dry climate. Drilled grain is sown at a
uniform depth, and will grow better but in uniform depth, and will grow better, but in our
moist climate it will all grow, no matter how
Here the land is all ridged up for root crops Here the land is all ridged up for root crops level cultivation). For this purpose, double
mouldboard plows are used. Various kinds of cultivators are in use. A new machine was inof our large Scotch farmers : it consists of fout disks fitted to a frame. It' cultivates two rows at a time; one horse does the work; the disks
can be moved in or out to fit different width' rows ; it will cut within an inch of the plant The writer used it last year on turnips, carrots, parsnips, beets and cabbage
sown in the drill for thinning).
grain is general practice of preparing land fo grain is fall plowing, and using spring-tooth har-
rows or disking in the spring. Personally, we do not plow our root or potato ground at all,
but disk it crosswise, then lengthwise, sow, and then roll the land well, thus helping to conserv the moisture and pulverize the small lumps. Have not had any experience in harrowing the early-drying parts you speak of, nor have I seen
it done here. Our own soil is all sandy loam, with subsoil of the same nature, and have neve experienced any trouble in land baking, if left un
til it is in good shape for seeding til it is in good shape for seeding.
Quite a number of farmers use thr double-mouldboard plows and spring-tooth har rows, but have never seen four used here. The farms in Nova Scotia are large enough to war
rant the use of machinery of that class. Colchester Co., N. S. A. HECTOR CUTTEN

SILAGE VS. SHREDDED CORN FODDER.
Having noticed in "The F'armer's Advocate Having noticed in The armer s Advocate give my five-years' experience with siloes.
would not be without one. As to handling the corn, we start the corn harvester one day, and
the next day we fill the silo, and so we keep gothe next day we fll the silo, and so we keep go-
ing through the neighborhood until their siloes
are all filled, just as with threshing. Siloes are common in our part of the country. I would like to have reply to my letter as to how shredded
corn would answer to help out pasture in July and August, and the fore part of September, when we find grass very scarce, especially as we did
last year. I think it would be as dry as powder, whereas ensilage takes the place of pasture. I have fed ensilage when my cows were il good
clover, and they would not refuse it. As to
handling the corn, the blower will handle it handling the corn, the blower will handle it
fast as four or five teams, and men enough to handle, will gather it up. My silo is $32 \times 1$
feet, and has lleen filled in seven hours. 81 -acre farm, 80 acres under cultivation, and 4 young cattle 22 in all; always about 40 hogs, much stock if 1 had not a silo; and I am going 1. build another next summer. and I am goin
$\qquad$

## THE DAIRY.

Address by J. Stonehouse before the Eastern Dairy men's Convention at Picton, January, 1908. If the past season was a disappointing one to the cheesemakers, it has been none the less so to year by year, and the output is not keeping pace with the expenses. In fact, there was a heavy alling off in production during the past year, and might mention two or three factors whic We had a cold, backward spring, and feed was very scarce till about the middle of June. Con sequently, there was not the usual amount o ream available, even had farmers been dispose to send it, but the cool weather and high prices
for butter induced them to churn their own

weather continued very cool all summer and where the farmer's wife was disposed to mar-
ket her own butter, there was no extrame heat The scarcity from doing so
The scarcity, and consequent high prices offered for dairy butter caused a great many to make
their own butter. There is a somewhat curious fact in connection with this last statement. When butter is selling high, more women are anxious to
make their own butter than when it is selling low. My creamery is always better patronized when butter is low in price than when the price is high. The reverse should be the case, for the patrons are less able to afford the price charged for making when
when it is high.

HOME DEMAND GOVERNED PRICES.
$\qquad$ those of the previous year. In 1906 the demand from Great Britain was good, and prices were satisfactory. The price of creamer ruled the market for dairy butter, but during the past year the price of dairy seemed I have never seen the price of the two grades of butter so near to-
gether as they were during the past season. ether as they were during the past season. Al
The explantion, to my mind, is this: grades of butter were too high for prontable export. Creamery butter more than supplied the home demand, and, in the absence of a foreign
market, there was never a brisk demand for creamery. On the other hand, dairy butter was always in strong demand, and that part of the
consuming public which prefers dairy buttor consuming public which prefers dairy buttor seemed to be able to keep the supply exhausted,
and consequently the demand was strong all through the season, thus bringing the price o airy to within a cent or two of the creamery or the greater part of last season.
Our large increase in populatio ast two years has undoubtedly actor in keeping up prices, and it looks as if the same agencies will cause prices to maintain high level for some time to come.
QUALITY OF CREAM THE FOUNDATION STONE OF SUCCESS,
The question of moisture in butter has been agitating the minds of a good many buttermakers in Canada during the past year or two, and the quality of the butter from some creameries has incorporate a large amount of moisture and have a large overrun. The conditions necessary to incorporate an excess of moisture are usually detrimental to the quality of the butter, and
should be discouraged. The quality of the should be discouraged. The quality of the of far greater importance than the incorporation of an excess of moisture, and it is the rock upon to take our proper and possible place among the dairy countries of the world. I am finding out that intelligent and couteous cream-haulers can and I am also finding out that the richer the cream, the better the quality

RICH CREAM THE BEST
My routes vary from 25 to 32 per cent., and invariably find the richer cream the best in quality. It is difficut to get many farmers to can be done with a separator. This brings me to speak of a large number of experiments along this line which were conducted at the Kingston
Dairy School during the past two winters, and Dairy School during the past two winters, and
also experiments along another line which are of interest to users of cream separators.
EFFECT OF SEPARATOR SPEED ON RICHCREAM AND
OF SKIMMIMG
Two years ago we took six different makes of separators, and put each machine through nine
different experiments to determine the effect of speed on the richness of cream and the skimming invarincy of the different machines, and we almost invariably found that an increase of speed, from
five turns of the handle lower than the indicated
proper speed, to five or even ten above the indicleaner skimming. In some cases we had and ference of over 20 per cent. in the richness of the cream in the same run, just by increasing the
speed of the machine by ten revolutions of the speed of the machine by ten revolutions of the
crank; yet some patrons wonder why their cream crank; yet some patrons wonder why their cream
test varies from time to time, when they never change their cream screw.
COLD MILK : POORER CREAM AND HEAVY
We also put through a large number of experiments last year to determine the effect on the richness of cream and the efficiency of skimming by allowing the milk to cool before separating.
These experiments were suggested to me by the invariable lowering of the tests in my creamery when the cold weather comes on in the fall. We through three machines, then raise the temperature to 95 degrees, and put through the balance in just 50 per cent. of our experiments we had an verage decrease in the per cent. of fat of 4 per heavy loss in the skim milk. The cream, and peared thicker and richer as it came from the machines, but the fat was not there. Our widest range was 9 per cent. lower at 80 degrees than at 95 degrees. We all know that a great deal of oold weather. A large loss of fat is the result, and often a lower per cent. of fat in the cream. Some agents claim that they have the only ma-
chine that will skim milk clean at a low tempera ture, but that machine is not made yet, and we don't need it.
COST OF SEPARATING FAT FROM WHEy
In connection with our creamery-butter busi of whey butter. Mr. Mitchell has been conduct ing some experiments this past fall to ascertai the cost of separating a given amount of whey and thus finding the cost of producing a pound or
butter. He ran two power separators three hours each on two different occasions, and ran through 36,600 pounds of water, consuming 900 pounds of soft coal screenings, at $\$ 4$ per ton, or a cost o
$\$ 1.80$ for coal. Taking three pounds of butter $\$ 1.80$ for coal. ing, for fuel alone, would be about $1 \frac{1}{2}$ cents per pound of butter recovered. This work has been supplemented since the opening of the school an and from which several lots of butter have been made, which, on the whole, was excellent in quality. It is the intention of our superintendent this have considerable experiment
The dairy industry, and more especially the butter part of it, is indelted to Mr. Mitchell for doing away

THE IMPROVED BOTTLE FOR CREAM-TEST
It is well known among creamerymen that is difficult to get a clear reading of cream with-
ut the addition of water, and where the 18.0 ---c. pipette is used the cream bottles are ner
arge enough to hold the proper amount of water acid and cream without great difficulty in mix-
ing. Mr. Mitchell conceived the idea of a 9 -c.-c. ing. Mr. Mitchell conceived the idea of a $9-\mathrm{c} . \mathrm{c}$.
pipette, and then doubling the reading. This pipette, and then doubling the reading. This
worked well, but if there was an error made in the reading, the error was also doubled. To
overcome this objection, Mr. Mitchell has had ream bottles made with their graduation hal the size of the old style, but the size of the bulb there is plenty of room for the contents to mix, and the reading is taken without any doubling
The same amount of acid is used $(17.6 \mathrm{c} . \mathrm{c}$.) as a pipette of water is added to the cream. Furthermore, where this amount of water is used, it not
only washes all the cream out of the pipette, but also prevents charring of the sample
I have used these bottles, and I am of the opinion that creamerymen will be well pleased
they discard the old-style bottles and ask for the $9-\mathrm{c} .-\mathrm{c}$. pipette, and bottles to correspond. They
should not cost any more than the old style; in fact, the cost of the first order of six dozen bot
tles from the Wagner Glass Works was only $\$ 2.50$ per dozen, which is the regular selling price of the ordinary bottles; and as these bottles will not cost any more to make, the

## A LOVELY HAND-BAG

I beg to acknowledge receipt of premium
lady's hand-bag for securing one new subscriber lady's hand-bag, for securing one new subscriber
to your valuable paper. It is a lovely hand-
$\qquad$

## WE NEED PURE, NOT RICH MILK

 Milk is in such general use as a food that the question of its purity is always an importantone. Milk is one of the most healthful and economical articles of diet, and contains much fore every means ought to be taken to guard against adulteration. Let milk be pure and clean, from healthy cows ; do not allow anything
to be taken from the milk, nor anything to be added, and you have an ideal food of much value But why should a standard be fixed-a standar higher in fat contents than much pure milk con fat be accounted the best? A milk rich in fat is less easily digested and absorbed than a milk in which the fat percentage is low. The othe constituents in milk-those valuable proteid in sredients which go the prime property of any food-are the most important. Milk with low fat content agrees best with infants, children and invalids The human milk is the ideal milk for the young
it is a perfect food; and the milk that is nearest in composition to this is the one best suited for use in all families where there are children. Now this milk has a low percentage of fat, and if the
standard that is proposed for Ontario by the Provincial Board of Health, viz., $3 \frac{3}{3}$ per cent. fat were applied to the mother's milk, it would have to be rejected. Rich milk often causes more or
less disturbance in children, and, if fed in excess, less disturbance in chicaren, and, Experiments
the fact that the young of all animals do bette on milk of low fat content than on rick milk All farmers know they can raise calves-and good
calves, too-upon milk with little fat in it, and even upon skim milk. It is a well-known fact that some cows give such rich milk that they can-

A French-Canadian Octogenarian.
With an extra year to the good. Oliver Blais, Russell
not suckle their calves; the calves will sicken and die unless given milk of less richness.
Experiments with joung pigs have been con-
ducted by Mr. C. L. Beach. He fed separate lots of pigs with skim milk, milk poor in fat, and 40 days, the skim-milk pair gained 62 pounds the poor-in-fat pair 54.8 pounds, and the rich-inrat pair 42.2 pounds. The next ten days, the
gain for each was 22 pounds, $20 \frac{1}{3}$ pounds, and 31 pounds, respectively. The next ten days' results were, 20 pounds gain, 21 pounds gain, and 6 pounds loss, respectively. After slaughter, the
pigs fed skim milk and low-fat milk gave better meat and bone than those fed rich milk. better The same results he demonstrated on other animals. Calves fed on low-fat milk gained
more and grew faster, and were healthier, than those fed on richer milk. There are, of course,
cases of illness, and some other exceptions where fat is needed in the system, and in such cases the
fat is better taken in milk, and then milk rich in but is the best.
But is it reasonable, is it wise, is it necessary But is it reasonable, is it wise, is it necessary,
for the protection of the public health, to place a lar on pure milk with low fat content, when
all cxperience proves that such milk is a well-
lialanced ration: that it is casy of digestion and halanced ration: that it is easy of digestion and fat ? Take every precaution to have the cows strong,

gorons and healthy; keep the milk clean and
pure ; allow nothing to be added or taken fon the milk, and you have the ideal food, and on that should fill every requirement of any reason all consumers.-[D. Robertson, M. D., Halton Co

A CLEAN FACTORY AND HOW TO KEEP IT CLEAN.
rom an address by Jas. R. Murgess, becore
the Western Dairymen's $\begin{gathered}\text { 1908 }\end{gathered}$
It is impossible to get the best results, either in the quality of the cheese or the amount made unless the milk is kept clean, sweet and cool; and, in order that a cheesemaker can expect and clean condition, be kept clean and tidy, not only for this reason, but because he will have more infuence with his patrons; it sets them a good example, it makes his work easier, it is necessary in order to manufacture the finest quality of cheese, and finish What constitutes a clean factory is not only the make-room, walls, floors, vats and larger utensils, but it is everything, from the largest to he smallest, in and aring-room, and surroundings of the factory, including the manager and the employees.
The boiler, engine and boiler-house should be kept clean and neat as any other room. It can
be done if the boiler, engine and piping is blackened with lampblack, linseed oil and turpentine, or painted; the walls and ceilings whitewashed or painted; some shelves or nails put up to keep the
tools on, and kept there when not in use. The ools on, and kept there when not in use. The valves and unions should be kept packed to pre-
vent waste of fuel, wet floors, and the room from being full of steam. The floor should be swept
or scrubbed daily; the wood or coal neatly piled; r scrubbed daily; the wood or coal neatly piled; where coal is used,
keeping it damp.
The make-room walls and ceilings should be whitewashed, or painted; the sinks, press, vats, pan-bottoms, should be painted, and all piping
should be painted with aluminum, which tends to brighten the room. The windows should be thoroughly and regu-
larly washed, also the weigh cans, scales, porch, onductors, strainers, and every utensi, as soon as washed and scalded, and put in its place. In a heese factory there should be a place for everything, and everything kept in its place when not in use. A room does not look clean and tidy if
the floors are wet. Keep the floors dry, and do not try to change a strainer from one vat to another when half-full of milk. If a strainer made
of perforated tin or fine wire, fastened on a rack of perforated tin or fine wire, fastened on a rack, the cloth can be lifted off and put into a pail, and insed out in a very short time, and then changed without spilling any milk. Do not allow the whey to run over the floor when running down a
at or after dipping. By the use of whey boxes, at or after dipping. By the use of whey boxes,
hade of tin or wood, this can be prevented. At made of tin or wood, this can be prevented. At
dipping, use a conductor or whey box to carry
the whey from the end of the sink to the gutter, the whey from the end of the sink to the gutter, and the use of a dipping board to rest on the
end of the vat and side of the sink to prevent the end of the vat and side of the sink to prevent the
curd from being spilt on the floor, is preferable to a cloth. The vats, after dipping, when washed
or scalded, should be wiped around the outside or scalded, should be wiped around the outside
with a damp cloth every day with a damp cloth every day.
The press and hoops should be washed and
scalded every day, also the sinks; the sink cloths wrung out and shaken; should not be leit to soak in whey every night, unless there are two sets of loths; when there is only one set, and put in
whey every night, they do not get a chance to be properly aired, and they get a heavy whey smell, Which sometimes develops in the cheese.
The gutters should be scrubbed down every The gutters should be scrubbed down every
day. The bandagers or fillers should be as thoroughly washed as any other utensil.
Flowers in the windows of the make-room give the factory a more attractive appearance. Have a system of doing your work, and your
factory will look tidy, and your work be easier. factory will look tidy, and your work be easser.
Keep out the flics by the use of screen doory and windows, and cleanliness.
The cleaner the factory and surroundings aré The curing-room walls and ceiling should be floor clean, and the room well aired. There should be nothing but cheese kept in the curing-room. If be kept tidy and neat, Do not use the curingAfter every shipment of cheese, the shelves Should be wiped with a damp cheoth, or scrubbed, depending on the length of time the cheese have
been in, and the condition of the shelves. The
APRIL 2, 1908
Cheese, clean and neat, placed evenly on the
shelves, give the room a nice appearance.
The factory should have a neat, tidy appear-
ance from the outside. This cannot be done
without the surroundings being tidy and clean,
the wood neatly piled, chips raked up, and all
rubbish, such as boxes, barrels, hoops, etc., out
of sight. The whey tanks should be kept clean
and sweet, both inside and out, and free from
that strong, sour-whey smell that they acquire
from not being cleaned and from allowing the
whey to be spilled or leak out and putrefy. The
tanks should be thoroughly cleaned at least once
a week.
The cheesemaker and men should wear aprons,
and keep them clean. If the factory and utensils
are kept clean and tidy, the men's clothes do not
get dirty so quickly, and there is more pleasure
and comfort in doing the work.
A man who does not keep himself clean does
not keep a clean factory; neither does a man who
does not keep a clean factory keep himself clean.
The best results are not obtainable without clean
and sanitary conditions at the farm, and also at
the factory.

TREATING GIRDLED AND PARTLY-GIRDLED fruit trees During winters of severe cold and deep snow mice and rabbits, on account of a lack of other fruit trees. One winter, six of our thrifty-growing young fruit trees were badly girdled in this
way. It seemed too bad to pull up such nice way. It seemed too bad to pull up such nice
trees, that would bear well in one or two years fective remedy, which is within the reach of healed so nicely that it hardly shows the trees once were girdled. As soon in spring as the
ground is dry enough, the wounds should be treated; the sooner, the better, so the wounded
parts will not be dried out by the constantly in-
nill an old pail about three-fourths full of fresh cattle droppings.
With a wooden paddle, mix the dung in the pail, With a wooden pader as needed until it is of the contar" is to be put onto the wounded parts as
$\qquad$ There is no danger of putting on too many cloths,
for they help retain the moisture around th
wounded parts during the growing season, whic is just the object sought. of sap is checked, so that the crees wapplied. such trees are two inches or more in diameter,
is best to remove them and plant others. Smaller trees, however, can be saved by bridging over
the wounded parts, and thus restoring the circu-
lation of sap. Cut scions of last year's growth of wood long enough so they can be entered
about one inch under the bark at the upper and lower extremities of the wounded part. Sill wave
the ends of the scions down so they will of the tree, fit in from two to four such bridges,
on opposite sides of the trunk. The entire work must then be covered with the cow-dung paste,
the same as slightly-girdled trees.
If this work has been properly done, the sap can circulate through the "bridges," and the
tree's life will be saved. It is claimed that this
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
 he must have meant this to be taken the other
way, for we have found that, where young trees


A Tree Nearly Leal Bridge Grafting.
1 $\qquad$ are entirply girdled, they may be taken out and
$\qquad$
$\qquad$
$\qquad$
$\qquad$

## THE FARMER'S ADVOCATE

cents per pound. When packing for shipping, old bed we had on the place. We soaked the
washing should be done by dropping in clean seed for three days, then mixed a lititle sand with
water and taking water and taking out again. Haverng in clean
boxes, about 14 in . wide, 24 in. long and-made boxes, about 14 in . wide, 24 in . long, and 9 in. deep. Pack the asparagus upright and tight tobox, and ship anywhere you have a sale. This
sized box will hold about 75 pounds of ox will hold about 75 pounds of asp
ASPARAGUS ON A SAND BANK.
I just want to tell you of the first asparagus trom my window as I am writing. On this place was a bank of drifted sand. At that time the atorms used to blow the sand, so that it had guite a bank, about 300 fand, so that it had
wide. Nothing had grown on it for years, not Wide. Nothing had grown on it for years, not
even weeds. We just covered this sand bank even weeds. We just covered this sand bank
lightly with' fresh, long manure, plowed in very
shallow, and not more than half covering the shallow, and not more than half cavering the
manure, which was abundance to keep the sand manure, which was abundance to keep the sand
in place. Then, without harrow, I marked rows out 36 inches apart across the sand bank with a
hand hoe, three inches deep. We had 25 pounds of asparagus seed that we had picked from an
it and sowed it by hand, putting all the 25 pounds of seed on. I had a novel way of covering the seed. On account of the long manure that was in the way, I ran the wheelbarrow, with covered and pressed the seed nicely. When I got covered and pressed the seed nicely. When I got
to the other end, I had only one stone on the
barrow. The seed was sown the last week of Marrow. The seed was sown the last week of May, 1868 . Some of our readers will remember hot summer. That seed grew very fast; every seed seemed to grow. We left the tops on the and until spring, so that held the sand that blew that bed for three years ( 30,000 or more) before was thin enough-about 12 inches apart. Now, that sand bank was just the home for asparagus; dots of plant food in it, the surface soil, about
20 acres, gathering there for vears year from seeding we had the first cutting, and the 17 th of April we cut 60 dozen, which sold for 556. That was the best and earliest crop around TToronto for about twenty-five years. After that
it begain to decline, although it is there yet, after

O years of hard usage. So
vill make its home anywhere
For the home garden-and without from 100 to 200 asparagus plat should b will be sufficient for most farm homes-the best have too far to walk in cutting, and not not to from the house. Everything seems lovely, but now comes the asparagus beetle. You must look out for them. The sure cure is to press them between thumb and finger. Next, put hen-coop
over the bed, or, better, fence and keep enough cer the bed, or, better, fence and keep enough
chickens to eat all the bugs. They will do no harm to the asparagus, if well fed.
The varieties of asparagus are Conover's Co-
Ossal, Palmetto, Columbian, Giant, Mammoth The only distinct variety is the Palmetto ; that is light green ; the others have purple tops. The last cutting is like the first. We cut all we can see, then we plow the whole bed and harrow the
same day, so that it is left nice and clean, and in two weeks the asparagus will be 4 or 5 feet high. Run the cultivator through twice, and the work is through for the season. J. w. RUSH.
York Co., Ont.

## Varieties of Vegetables to Plant.

At this season many of our readers are inter-
ested in the question of what varieties of garden
crops to select from among the many offered and
recommended. With a view to furnishing reliable
information that will enable them to make wise
choice, we have requested expert authorities to
recommend lists of varieties adapted to various
parts of the country. RRead what they have to
say, and if the varieties you have commonly
grown have not given the best of satisfaction, or,
if disposed to try others in the hope of finding
something still better. inquire at the seed store,
and, if necessary, write to the seedsmen advertis-
ing in our columns. Do not accept substitutes.
Unless the genuine article can be obtained, stick
to the old and well-proven kind.
THE BEST VEGETABLES FOR HOME AND THE BEST VEGETABLES FOR HOME AND
MARKET. RECOMMENDED ESPECIALLY FOR EASTERN fruit, for, while fruit is rapidly taking than good prominent place as an article of diet, vegetables have always formed a substantial part of our
daily fare. But, unfortunately, the merits of difierent varieties of vegetables have not been varieties of poor quality are being grown, when those of good quality might just as well have been planted. Moreover, too few kinds of vege-
tables are grown by the average farmer. If a farmer's vegetable garden were laid out and planted, as it could be, for the most part, in a few hours before starting work in the fields in the would be assured for himself and of vegetables following list of vegetables, recommended after wenty years' experiments with varieties at the Central Experimental Farm, at Ottawa, will give market gardeners the ones most quality, and the Asparagus.-The varieties of asparagus differ less from one another than most kinds of vege tables. Conover's Colossal has been a very satisArgenteuil have proved less subject to rust: hence where this disease is prevalent, it would be well o plant either of them.
Bich to -There are many varieties of beans from For earliest, the'Kenney's Rustless Wax and War dell Golden Wax are two of the best. These are ellow-podded or wax bush varieties. The Keen ey's Rustless Wax is less susceptible to the an
thracnose or rust than other early sorts. Among the earlier green-podded varieties, the Stringless Green Pod is very good, being better in quality Than the wax varieties, as is also the Valentine best. This is a green-podded variety, of good quality, and very productive. To lengthen the season of the bush beans, another, but later Refugee should be planted. It is known as
Refugee or One-Thousand-to-One. The pole beans urnish delicious beans when the bush varieties are past their best. Two of the best in order of The Lima beans are Homestead and Lazy Wife The Lima beans are used shelled when green only satisfactory in, the warmest parts of Canada The dwarf varieties are the earliest. Among the
best of these are Henderson's Bush Lima and best of these are
Burpee's Bush
Burpee s Bush Lima
Beets.-The Egyptian Turnip and Eclipse
wo sorts most used commercially, as they
cery early; but of hetter color and shape are the
Meteor, Luby Dulcet, and Black Red Ball. They
has been found the most satisfactory
Brussels Sprouts.-The tall varieti sels Sprouts are not so satisfactory in of Brusas the as the dwarl kinds. The variety known as the Improved Dwarf has given the best results. Cauliflower--Several varieties of cauliflower are advertised, some early and some later, but the most satisfactory results are obtained from
successive sowings of the Early Dwarf Erfurt The best seed should be used, as quality in cauliflower seed is more important than in almost any other
Cabbage.-The cabbage has long been an important vegetable. To have a satisfactory suc-
cession of good varieties, the following shold cession of good varieties, the following should be planted: Early, Early Jersey Wakefield; medium, early use, the Paris Market has been found very satisfactory, coming in a few days before Early Jersey Wakefield. A late variety which has proved freer from disease than others is the
Houser. It is a little coarse a good market sort for late use. Of the Savoy cabbage, the Drumhead has been found the most satisfactory, and of the red cabbage, the Red Carrots.-After testing many varieties
rots, we have Chantenay is the best for market and for home
use. use. The Danvers is almost as good.
the White Plume a profitable variety of celery find of its extreme earliness. For home use, however the season may be started with the Golden Self blanching or Paris Golden Yellow, which is a in quality. For those who are anxious for celery early, regandless of quality, a little White Plume might be planted for use until the other is ready. differing very little in merit Among the are Evan's Triumph, Winter Queen, French's Sucif the newer kinds cannond Perfection Heartwell. If the newer kinds cannot be obtained, the Giant Corn.-For commercial purposes, the following varieties are among the best: Early Fordhook Early Cory (early) : Crosby's Early, Metropolitan, and Golden Bantam, where it is known,
(second early): Stabler's Early, Early Evergree (medium) ; Stowell's Evergreen and Country Gentleman (late). Domestic varieties-For donestic purposes, the following are the best: Peep Golden Banty Fordhook and Malakhov (early); and Early Evergreen (medium) ; Country Gentle-Cucumbers.-Cucumbers of the White Spine and are the best, Doth ior commercial purposes White Spine has proved one of the best. Peerless Perfect is also an excellent cucumber. Giant type, which is very fleshy, and of good flavor. Eggplant-Two of the best eggplants are the New York Improved and the Long Purple. Lettuce--For forcing, the Grand Rapids is
best both for commercial and domestic purposes
Two other good curlod or Two other good curled or loose-headed varieties
for early use are the Black-seeded Simpson and
the Morse. The varieties which have stood the the Morse. The varicties which have stood the
heat best in summer, and are the tenderest and
hest cabbage ettuce an Hest calbage lettuce are New York, (Fiant Crystal
Head. Crisp as Ice, Improved Hanson, and Im-
proved Salamander. proved. Salamander.
Melons, Musk.-Where the larger-sized melons

Melons are Market for main crop. Where small Ford, of the green-fleshed type and of the yellow-fleshed, are two of the most profit prise, Christiana and Paul Rose sorts, are among the best for hose, yellow-fleshed going are good in quality.
Melons, Water.-Three of the most satisfactory watermelons in Canada are Cole's Early, Ice Early, is the earliest, and Ice Cream the best in
Onions.-The two
Onions.-The two most reliable onions, both
commercial and domestic purposes, are the Yellow Globe Danvers and the large Red Wethers-
field field. Where transplanting is practiced, Prize-Parsnips.-A number of varieties of parsnips rior to the best strains of the Hollow Crown Parsley.-Parsley is a very useful vegetable for garnishing or favoring. Plants may be taken the winter, where they graw, and furnish during supply of leaves.
Peppers. most parts.-The most satisfactory peppers for smaller-fruiting kinds, which ripen compare the early, and are very productive. Two of the best eties, the and Chili. Of the large-fruited variof the earliest and most satisfactory kind, is one Peas.-Most of the earliest varieties of peas productive buth, round-seeded sorts, which are ory's Surprise is inferior in quality. The Greg quality, quite as early as any of the smory good and productive. It is the best extra-early vear large-sted here. Next follows the Gradus, a both for market and home use. American Won der and Nott's Excelsior, two dwarf varieties same season as Gradus, are both profitable the as varieties, and two of the best for home use ety. For medium crop Gem, another early vari and market are McLean's Advancer and Heroine and for late, Stratagem. All of the varietie none of them are tall. sorts is the Telephone. If preferred late tall planting may be made of some of the varietios $t$ mentioned season, instead of using all the kinds Potatoes.-It is important to plant the earlies varieties of potatoes. In a test for earliness at
the Experimental Farm, Ottawa, the Furek Extra Early has been found to be about the duces a large proportion of its cropep early and the new potatoes are good in quality. It is a round-pink-skinned sort, is very early also, and the nell potatoes are dry and good. It is not a large st total crop are the Rochester Rose, of the Carly Rose type, and the Irish Cobbler, a round
ish, white potato. For main crop, Carman and Moneymaker are two of the best, both in am resemble Carman Nont Gold Coin and Uncl good varieties, but have not been found so pro
ductive at ottawa. Dooley is also a productiv ariety of the Carman type. The Carman No has teen found more productive than either Em

Scarlet White-tipperl Turnip, and Rosy Gem. The about 8 feet apart when danger of frost is over.
Icicle, a white variely, is very tender, crisp and Thin Icicle, a white should be grown for home, use. The winter radishes are desirable, and two of the best
are Long Black Spanish and Chinese Rose. are Long Black Spanish and Chinese Rose.
Rhubarb.-Two of the best varieties are Vic-
toria and Linnæus, being vigorous-growing sorts toria and Linnæus, being vigorous-growing sorts, of good color. Vegetable Oyster.-The varieties of this vegetable do not differ much. Two of the
best are Long White and Sandwich Island. Spinach.-The
two of the best two of the best.
Squash.-For early use, the White-bushed Scalsorts, and a variety of especially good quality is
the Delicata. The Hubbard is the best late squash.
Tome

Tomatoes. - There are many varieties of toma-
toes claimed to be the earliest and best. Since toes claimed to the Spark's Earliana, other kinds have taken second place, as it is as early as any and smoother. A good early Canadian variety is
the Dominion Day. Wealthy is thought by some to be superior to Earliana. All the extra-early to be superiore more or less rough. The Cralk's
tomatoes are The
Early Jewel, which ripens soon after the Earliana, Early Jewel, which ripens soon after the Earliana,
is very smooth and regular, and, being quite productive, is proving one of the best, both for
early use and main crop. Some of the best of the later varieties are, (scarlet) Brinton's Best,
Trophy, Matchless ; (purplish pink) Burpee's CliTrophy, Matchless ; (purplish pink) Burpee's Cli-
max, Autocrat, Livingston's Globe. max, Autocrat, Turnips. -The early turnips are not very satisfactory in this country, being usually more or less
bitter. The best of them are the Extra Early Milan and Red-top Strap Leaf. Of Swede turnips, Champion Purple Top and Skirving's Swede
are two good ones.

Central Experimental Farm, Ottawa. $\begin{gathered}\text { Horticulturist }\end{gathered}$
VARIETIES OF VEGETABLES FOR A HOME RECOMMENDED ESPECIALLY FOR WESTERN and central ovario. At this season wide-awake gardeners are getting in their supply of garden seeds, and making
plans for work on the land as soon as the ground is ready. To have the work well planned and seeds all on hand when wanted is a good
start, which counts for success throughout the start, which counts intelligent selection of varieties
season. The
from the lengthy lists given in seedsmen's catalogues is often a difficult task, even to experi-
enced gardeners. enced gardeners. As a guide in such selection,
we give below a few of those which have proved best in our trial plots at the Ontario Agricul-
tural College. A few brief notes, with regard to the time of seeding, etc., are added, which may Asparagus.-Conover's Colossal and Palmetto. Asparagus.-Conover apart, and two feet apart
Plant in rows four feet apare liberally, and cultivate thoroughly.
Beans.-Summer: Keeney's Rustless Golden Wax, Wardwell's Kidney Wax, Stringless
Green
Pod, and Valentine. Autumn: Burpee's Bush Lima matures well in southern sections, but tod late for northern parts of Ontario. Winter:
Navy. Sow when danger of spring frost is past. Beets.-Globe, Egyptian Turnip, for extra
early. Eclipse, Black Red Ball (the darkest of early. Eclipse, Blobe varieties), Long, Long Smooth Blood. For early use, sow as soon as ground is fit to
work: for winter use, sow about first of June, Thin when small to three inches apart, and take
out every other one as soon as they are large enough to use.
Carrots.-Chantenay, Danvers and Rubicon. Sow early for early use, and about first of June
for winter use. Thin first to two, then to four
Cabbage.-Early: $\begin{aligned} & \text { Inches. } \\ & \text { Catsey Wakefield and Win- } \\ & \text { ningstadt. } \\ & \text { Late : }\end{aligned}$ Danish Round Head and ningstadt. Late: Danish Round Head and
Savoy. The Houser is a rough, late cabbage, the least subject to rot of any we have tried. Red
Mammoth Rock. Seed of early varieties should be sown in hotbed about middle of March, an
transplant to open ground about end of April Sow seed of the late varieties in the open ground
about the end of May, and transplant about first of July. ('auliflower--Extra Early Erfurt, and Early Mowball. Treat the same as caboage.
Celery.-Early: White Plume. Medium : Paris
Golden Yellow.
Late: Giant Pascal, and Golden Yellow. Late: Giant Pascal, and
Eran's Triumph. Sow seed in seed box or hot-
bed about. May 1 st. Prick out into flats or coldbed about May 1st. Prick out into flats or col-
frame when about an inch high, and transplant frame when about an inch high, and trout first
into trenches four or five feet apart abot Oily.-Early: Golden Bantam, and White
Corn.-Eary : Metropolitan. Late: Country Cory. Medium: Metropolitan. Late: Country
Centleman and Stowells Evergeen. Sow about
first of May, and if plants are injured by cold or
frost, sow again about 24 th of May. Some preirst of May, and if plants are injured by cold
frost, sow again about $24 t h$ of May. Some pre
fer Golden Bantam to all others, and plant at

Cucumber.- White Spine, for slicing; Wester-
Cield
Chicaro field Chicago Pickling, for pickling. Sow in hills
about 4 feet apart when ding about 4 feet apart when danger of frost is over thin to three or four plants.
Feggplant.-New York Improved, and Black
Beauty. Sow seed in seed box or totbed about middle of April, and transplant in the open when danger of frost is past.
Kohl-rabi.-Early White or Purple Vienna Sow seed early for summer use, and again about
middle of June for winter use. middle of June for winter use.
Lettuce.-Black-seeded Simp
Lettuce.-Black-seeded Simpson, and Hanson. Sow seed as early as possible, and at intervals
of a month for succession. Thin plants at first of a month for succession. Thin plants at first
to three inches, then to six and twelve inches apart to secure good heads
Musk Melon.-Rocky Ford or Emerald Gem,
Hackensack, and Montreal Market. Hackensack, and Montreal Market. Sow seed in
enriched and well-prepared soil when danger of frost is past. Hills should be five or six feet
apart. Thin to three plants in hill apart, Thin to three plants in hill.
Onions. - Yellow Danvers, Prizetaker, and Red Wethersfield. Sow seed as early as possible. The thinnings may be used as green onions. Thin to three inches apart for big onions, but allow to crowd for big crop.
Parsnips.-Hfollow Crown. Sow as early as possible, and thin to six inches apart in row.
Leave part of the crop in the ground over winter Leave part of the crop in the ground over winter
for spring use. Peas.-Early : Alaska, and Nott's Excelsior Medium: Gradus. Late: Champion of Eng
land, and Stratagem. Sow early kinds as early as possible, and others a couple of weeks later for
Potatoes.-Early: Early Ohio, and Early Fortune. Late: Empire State. Keep potatoes for early planting in a warm room, in
the light, for three weeks before planting the light, for three weeks before planting
Plant a few for early use as soon as ground is Plant a few for early use as soon as ground i
fit to work, and follow with others when danger fit to work, and follow with others when danger
of frost is past. Plant late varieties about
24th of May 24th of May.
Pumpkin.-
Pumpkin--Sugar, best for pies. Plant when
danger of frost is past. Hills should be eight danger of frost is
or ten feet apart.
Radishes.-Early: Rosy Gem, Scarlet Turnip,
White Tip, and French Brealff White Tip, and French Breakfast. Winter
Scarlet China, and Osake.
Sow early varieties as early as possible, and at intervals of two weeks for succession. Sow winter varieties in summer, after crop of early peas.
Rhubarb.-Victoria,
pink-stalked variety. Plant four feet nure liberally, cultivate thoroughly, and brealk out seed stalks as they appear. Grow a few
extra plants to force in the cellar for winter
extra plants to force in the cellar for winter
use.
Salsify.-Long White and Sandwich Island Sow as early as possible, and thin to four inche apart in the row. Part of the crop may
in the ground over winter for spring use.
in the ground over winter for spring use.
Spinach.-Victoria. Sow as early as possible,
and at intervals of a month, if succession is deand a
sired.
Squash.-Summer: Crookneck and White Bush Scallop. Winter: Hubbard. Do not plant until danger of spring frost is over. Bush varieties require about four feet of space between hills. Hubbard should have at least eight feet. Wealthy.
Tomatoes.-Early: Earliana, and Medium : Chalk's Jewel. Late: Stone and Success. Sow seed in seed box or hotbed about the middle of April. Transplant in the open when
minner of frost is past. In northern sections, the early varieties only are likely to ripen.
Turnips.-Early: Extra
Milan, Gorlden Ball. Parple-top
Late :
Hartley's Bronze Milan, Golden Ball. Late: Hartley's Bronze June 20th for winter use. Vegetable Marrow--Long White Bush. Plant
when danger of frost is past in hills four feet apart.
Watermelon.-Hungarian Honey, and Cole's Early. These are the earliest variettan when
likely to ripen in northern sections. Plant when danger of frost is past in well-prepared hills 8 VARIETIES FOR THE NORTH
In preparing a list of vegetables for domestic or commercial purposes, suitable for the north, after avoiding any of the late-maturing varieties, pretty much the same selection may be made as for the more southern parts of the Province. The
following may be relied upon as well tried and satisfactory: Conover's Colossal; somewhat
Asparagus.-Conover's Colossal
subject to rust, perhaps the lest.
Beans.-Golden Wax, early ; Refugee, late
Bet Beets.-Bastian, Blood Turnip, Long Dark Red.
Beal
Cerla Cabbage--Jersey Wakefield, early; late, Flat Dutch, or, if perfection in cabbage is
Cauliflower-- Early Snowball.
Oxheart for commercial use. domestic purposes

Corn.-Golden Bantam, the very best for do mestic use, but too small to be profitable for Cob Corey. Some of the yellow, such as Long ellow, will come in after the early corn is done and will keep fit for eating for two ween when grown in the north.
cumbers Poston piskling : cool and crisp slicing.
Lettuce-Black-seeded Simpson, Hanson, and Paris Cos.
Melons may be tried, but with doubtful sucMelons may be tried, but with Mosktful suc Green and Christiana. Watermelon, Phinney
Early. re two of the best.
Parsnip.-Hollow Crown
Parsley.-Moss Curled.
Peas.-Alaska, best hardy for first planting American Wonder, dwarr, requires rich ground England, for domestic use. Burpee's Early; late Potatoes.-Early, Ohio, Burpee's Early; late, American Wonder, White Elephant, are among th in name. in name.
Radish.-French Breakfast and Rosy Gem for early ; for late, Chinese Rose-colo
Black'Spanish,
Rhubarb.-Linnaus, and Turkey

Salsify.-Sandwich Island.
Squash.-Early, Crookneck; for late, Hub-
Squa
bard.
Tom
Tomatoes.-Earliana has so far proved the larger and more productive, but cannot be de de pended on except under favorable circumstances. Turnips.-Yellow Aberdeen Swedes, late winter and spring
cated as near the house as possible, with vegetables sown or planted in long, rows, leaving space at each end to turn a horse and a minimum All garden vegetables may be grown on the same plot for several years if kept clean of weed seeds, and the ground kept rich enough. CHAS. YouNg.
West Algoma, Ont. VARIETIES FOR THE MARITIME PROVINCES. Below is a list of varieties of vegetables which present experience leads us to recommend for the home garden for this part of Nova Scotia, on earlier varieties of some vegetables are the only Asparagus.-Con
Bean.-Detroit Wax, Wardwell's Kidney Wax, Indian Chief (pole). Beet.-Eclipse, Crosby's Egyptian. An Seasons,
Cabbage.-Early, Jersey Wakefield, An Flat Dutch. Chantenay

Carrot.-Chantenay.
Celery.-Golden Self-blanching, Improved White Plume.

Corn.-Early Cory, First of All. Cucumber.-Improved White Spine.
Lettuce--Grand Rapids, Nonpare Wethersfield, Prizetaker.
Parsnip.-Hollow Crown. American Woxder, Potatoes.-Farly Ohio Burpee's Extra Early. Squash.-Boston Marrow, Hubbard Tomato.-Early Ruby, Earliana.
We are making tests of a large number of varlies here this year Horticulturist. Agricultural College, Truro, N. $\stackrel{\text { Hor }}{\mathbf{S}}$.

HOW TO GROW SALSIFY. A vegetable which is at once a luxury and an
economy is that peculiarly-flavored plant called salsify, or vegetable oyster, the roots of which
make a soup with the delicious flavor of oyster make a soup with the drom the danger of germ infection characteristic of the well-known bivalve, beds of which are often deliberately planted in harbors at
the mouths of sewers, because here they fatten the mouths of sewers, because here they fatien more readily.
In bulletin issued by the Pennsylvania Department of Agriculture, the following tions for the growing of salsify are given: Salsify is one of the most delicions of vegemerits demand, either in the home garden or for commercial purposes. The seed should be sown as early in the spring as the ground can be pred
pared, making drills one foot apart, and covering the seed with about one inch of soill. When the plants are large enough to facilitate rapid and careful handling, thin, leaving a plant every five or six inches. Salsify does best in a deep, rich,
sandy soil, although it may be grown successfully in any kind of a deep, fertile garden loam. Fresh manure should not be used for this vegetable, as It induces the formation of too many fibrous, ments can be used with good effect. Favorable
conditions for the growt th of salsify are furnished by liberal manuring the previous season for cab The crop may be dug in the fall and stored in the cellar and covered with sand, or the root may be left in the ground until spring. Market gardeners usually store the bulk of the crop, so
sales can be made during the winter. The roots sales can be made during the winter. The root
are entirely hardy, however, and there will b no loss if left in the ground. Sandwich Island is the leading variety

GROWING A SPY ORCHARD. What is the best method to get an orchard o
Northern Spies? Is it a good plan to plant Tal man's and top-graft? How soon should the
grafting be done after planting? Will they do as well all one kind as if mixed with other varieties, when there are other orchards near-by?
Will they bear earlier if top-grafted? If so, how Will they bear earlier if top-grafted? If so, how
much'? What is the best fertilizer for young much? What is the best fertilizer for young
trees, and the best crop to grow? T. H. W. I would recommend the following plan a good orchard of Northern Spy apples
In the first place, I would get from a In the first place, 1 would get from a nurseryman some good thrifty, hardy stocks upon which man's would be as good as any for your distri I would prefer getting one-year-old trees, either bround, with the intention of growing headed trees, which are far more convenient than the ordinary high-trunked trees for all such operations as pruning, spraying, thinning and pick-
ing fruit. ing fruit.
selection of scions for top-grafting, would take these from the best-bearing Spy trees
1 could find in the neighborhood. I believe that 1 could find in the neighborhood. I believe that crease the productiveness, and improve the quality
of the fruit by careful selection of scions in this way. Just how much earlier the Spy can be brought into bearing by top-working in this way that the usual definitely, but I am quite certain nursery, from scions taken from other growing trees which have never yet fruited, has a tendency to perpetuate the tendency to vegetative growth,
rather than productiveness in the young tree It is well known that Northern Spies are selfsterile; that is, they will not fertilize their own blossoms when grown alone, and should have pollen for fertilization. There are many varieties which could be used for this purpose. The Talman blooms late with the Spy, and a few trees of this variety left here and there in the orchard
should furnish the pollen necessary. As to the best method of maintaining soil
fertility in the orchard, I would make use of leguminous crops, such as red clover or hairy vetch, erally as possible. For further information on this subject, send to the Department of Agriculture for our bulletin on apple culture, in which
you will find all these points discussed at length.

## AN UP-TO-DATE FARMER'S GARDEN.

 It would be a surprise to the public, and evento the men themselves, if a census oi the number of farmers who do not have a garden was taken. Why there is such a general neglect of the
garden, which supplies some of the cheapest and most healthful food that can be procured, is more than a good many people can understand.
The argument that some farmers that it is cheaper to buy what they put forth, it is to raise it, is simply a lame excuse for not having a garden. In the first place, they are
not likely to have it when they want it they
do not use it as freely as if they grew it the do not use it as freely as if they grew it th
selves, and it is not by any means as cheap One reason why so many farmers fight shy a garden is that they think the only way of making a garden is on the old plan of putting thing in beds or plots, and working it solel
with a hoe, as their fathers or grandfathers did with a hoe, as their fathers or grandfathers did but that he can spare five or six rows of dril across a field, which will supply the average
family with all the vegetables they want to use during the summer, as well as enough to store away for the winter. These rows can be culti-
vated out with the cultivator, and with very little hoeing, compared with the "old bed-plan Having done a good deal of experimenting the ast six or seven years in my own garden, trying the different varieties of the leading vegetables, have at last gotten a list that will, I think, be
found to be suitable for the most of the country. it is a mistake for the novice to try any of the novelties, not but what there are good things
being brought out from time to time by the diffrent seedsmen. Better leave the novelties alone
fill you gain a little experience, and you will will now pive my in alphabetical order
best ; in green-podded pole beans, the Lazy Wife Don't unite colonies in this way, however, if you is as good as any ; I have experience with the only suspect one to be queenless. Make sure, pole Wax or Lima beans. In beets, Edmand's first, by a thorough examination of the combs.
Early Turnip and Crosby's Egyptian are the best. If no brood is found at a time when other coloEarly Turnip and Crosby's Egyptian are the best Surehead for late, fill the bill. In carrots, Halflong or Intermediate are as good as any. I have not enough experience in cauliflower or celery to
recommend any one variety. In sweet corn Premo for early, and Evergreen for late, are the premo In eary, and Evergreen formite Spine still has he lead. The Nonpareil lettuce is the best.
nusk melons, the Strawberry is the best. watermelon, Cole's Early Ice-cream, and Hungaran Honey. In onions, the Yellow Globe Danvers and Red Weathersfield lead; these may be grown from seed, but, for the is catalogued as Yellow Dutch Onion Sets. They grow nice large onions, and are easier and cheaper to raise. For carden peas, the Alaska for early, and Stratagem
for late, are as good as any ones. Now, in radishes, the White-tipped and Roy Gemare are among the best early sorts, while, for winter use, the long Black Spanigh is about the best. squashes, Green Hubbard is as bood as any winter use. In tomatoes, nothing beats the Earliana for early, while the Stone is a good
main-crop variety. I have now reached the end main-crop variety. I have now reached the who know of better varieties. In conclusion, I would urge every farmer to try the experiment of having a garden, and see what a source of pleas
ure it will be to have vegetables of his own just when he wants them, and I am sure he will also find it profitable.

## APIARY.

## KEEP THE BEES WARM

A great deal of harm can be done by inconmonth of April, when it is of vital importance that everything possible be done to conserve the natural heat of the hive, and that the brood-nest have had their first flight in the suring it is nes essary only to ascertain that they have sufficient honey to carry them through the uncertain know that they have a good laying queen. It is these things, either. If bees are wintered in the cellar, it is easy to tell by the weight, when supplies, and to mark these particular anes cither by setting them in a certain part of the yard little apart from the main apiary, or placing a stone or some such thing upon the top of the hive. It can then be seen at a glance, when the work of carrying out is done, which hives need attention, and
only these should be opened. This work of giving combs of honey to colonies that have not suf-
ficient in their hives should be done as soon as ficient in their hives should be done as soon as
possible after carrying out of cellar, for the longer it is delayed, the more brood there will be
in the hive to become chilled when the hive is opened. Colonies which have wintered well in
the cellar will have little or no brood when placed on their summer stands, but after they laying rapidly, and soon there is a large amount of perishable brood in the hive. A hive that has
been wintered outdoors, packed in chat will counge, hative to be opened, as it cannot, very well
be fatted to see how much it weighs. hut the examination should be as brief as possible. It is
generally necessary only to raise the cover, and, if there is plenty of honey, it can be seen by looking be seen, a further examination is necessary.
With regard to finding out whether a colony has a laving queen in the early spring, an "in-
door ", "xamination is seldom necessary, as it is nearly always possible to tell by the way the
hees work whethor everything inside is as it should be A queenless colony is nearly always listless,
and not inclined to get out and hustle, and especially
a colony carry in very little pollen, or none at
all, whereas a colony that is "/ quecol-rimht," will all, whereas a colony that is "quech-right" will flowers are in bloom. If a colony strong in bees
is found gueenless at this time the bees in it can usually be made useful by uniting them with a col-
ony having a good queen. This uniting can usually be done successfully thy smoking the bees in each colof the hives, and placing it on the stand of the taining lwood should, however, he placed as near possible as if they become seatered through the
hive, or phacenl near the sides of the hive, there
nies have it in abundance, and if the symptoms
above described are observed, it can be pretty above described are observed, it can be pretty safely concluded that no queen is there Buyt out, and no good. Have a look to make sure. A queenless colony-one hopelessly queenless, wi nothing it can imagine or pretly in ever was ever will be a queen-is generally in a pretty dis-
organized condition, with the bees scattered all over the combs, and not clustered compactly, as a normal colony is at this season, and very much inclined to run out of the hive in a panic when
smoked. By these symptoms, queenlessness can generally be ascertained easily by anyone who has had any experience with bees.
Let all your energies during the early part of the season be devoted to keeping the bees warm,
for on warmth their very life depends. Bees can no more raise brood in a hive that the wind blows through than a hen could hatch chicks keep the entrance small, and keep the wind off as much as possible. The temperature of the broodnest has to be kept at about 80 degrees, or higher, night and day. The snugger the hive is, the
larger surface of comb the bees can keep at this larger surface and the consequent larger family they can raise. On large families in the hives
$\qquad$

## POULTRY.

## SELECTING EGGS FOR INCUBATION

Editor "' The Farmer's Advocate ":
Many failures in incubation are attributed to
the fault of the incubator, when, as a matter of fact, the cause can be traced to the indiscriminate selection of the eggs. Many operators secure chicks fram 50 to 60 per cent. of the eggs set, and attribeggs and the chicks being dead in the shell. The very fact of securing a fair hatch is a reasonable indication that the fault is in the egg, rather
than the incubator. As the epg is the product than the incubator. As the egg is the product
of the hen and the food she eats, it becomes an of the hen and the food she eats, it becomes ap-
parent at once that the difficulty lies in the breeding stock. One cannot lay too much emphasis on the housing, care and feed at all times, but particu
larly during the breeding season. The breeding stock should be carefully selected, as it is simply a waste of time and money to incubate eggs gathered from the average flock. Every bird
that has recently recovered from roup or other that has recenty recovered from roup or other tion is such that she will in all probability produce eggs containing weak germs that will not hatch. If I were to name any one particusay that that failures in in ing eggs from immature birds; that is, birds that were late-hatched, or for other reasons failed and, not having been supplied with the necessar foods to complete development, never became fully developed in the strict sense of the word, the result in such cases being that the internal organs were also undeveloped, making it impossible for
them to produce eggs suitable for hatching purThere are many who claim that pullets egg are unsatisfactory for hatching purposes. With
this statement, however. I fail to agree. experience with such, by the use of agree, as my has proved the reverse to be the case. I foung
that the pullets that commenced to lay the out the winter, produced the larger number strong, healthy chicks. This statement is particularly true of pullects, coming under my ohservation, that commenced to lay the earliest, and
laici the largest number of eggs during the winter chick.
It is but reasonable to expect that pullets that have the strain, with constitution and vitality To produce eggs throughout the winter months, We observe in our wilh fowl a mating season has been found advisable to keep the male birds April and May, unless for market purposes Fges selectid for inculation should be a perage
$\qquad$
$\qquad$
$\qquad$
$\qquad$
will start germination. It is also advisable
set the eggs as soon as possible after being lai and, when set in an inculator, eggs not over five days old secure a much more even hatch.

THE FARM BULLETIN.
FOR THE PROTECTION OF SHEEP Following are the salient features of a proposed
Aet, introduced in the Ontario Legislature in the pres ent session, by Mr. Brower, member for East Elgin, to
amend the Act for protection of sheep and to im--
(the words "or may increase the amount of tax to a 2. Section 17 is amended by striking out the words
. two-thirds." in the third line of the section. 3. Section 18 to be repealed, and the following substituted therefor: 18.-(1) The council of every local
municinality shall by by-law appoint an officer to be municipality shall by by-law appoint an officer to be
known as the Inslector of Sheep, whose duty it shall be to make enquiry into the killing or injuring of sheep by dogs and report thereon to the council. (2) The owner of any sheep or lamb dilled or in-
jured by a dog, the owner or keeper of which is not of the killing or injury, apply to the Inspector of Sheep to assess the damag"s.
(3) The Inspector shall, with as little delay as (3) The Inspector shall, with as may examine the
possible, enquire into the matter and may
owner of a sheep or lamb so killed or injured and such owner persons as he may deem necessary on oath, and
other
if the Inspector is satisfied that the owner of the sheep if the Inspector is satisfied that the owner of the sheep
or lamb has made diligent search and enquiry to asceror lamb has made dilligent search and enquin that such
tain the owner or keeper of the dog and that facts to the treasurer of the municipality with his find ing as to the value ofurer of the municipality upon the
injured, and the treasion
presentation of the certificate shall pay over to the owner of the sheep or lamb the amount so awarded. value any thoroughbred sheep or lamb at its market value. In case the owner of a sheep or lamb so killed
5 . In or injured is dissatistied with the findings of the In
spector, or with his refusal to issue such certificate, the spector, or with his refusal to issue such cortica of the
owner may appeal therefrom to the council of
municipality at its next meeting, and the decision of the council shall be final.
6. Notice of such appeal shall be given to such In
In 6. Notice of such appenl shall be given to such in
spector at least two days before the meeting of the
council at which the sume is to be heard.

A RECORD OF PROGRESS (ine of the latest evidences of the large advantage annual expenditure on behalf of agriculture is the 280 page annual report for 1907 of the Ontaining chiefly
tural College. This volume in itself contanincomplished as it does, a digest of investigative work accomphished during the year, with but a mirk, is a creditable monu
to proceedings and routine work, in ond
ment to the energies of the staff, and yet it is only one of several publications prepared by them that hav
heen issued during the year. It is a matter for regre been issued during the year. It is a mars do not avai
that a much larger number of farmers do themselves of the College bulletins and reports as wrovincial
as the other records issued each vear by the Prove vepartiment of Ag the Agricultural Departments
 seminated through the agricuturapy and incomplete
thus retailed is more or less scrappy Wery indmer owes indiviaul touch with the fountains of agrough
closal knowledge, and should see to it that throug is the Farmers' Institutes, or other own Provincial and
kept upon the mailing lists of his own in the report under
also the Dominion Department. In question, while it seems invidious to particu of the ex
mass of information udduced in the report on mass of information udduced helpful at this season, co
,wrimentalist is particularly
as
 $s$ to prohibit autos on P. E. IsLand



DEATH OF ALLAN BOGUE
Mr. Allan logue, widely known as a successfur
armer and expert poultryman, died at his home in London, Ontario. on March 23rd, after a long illness


The late Allan Bogue.
he was highly esteemed as an enterprising citizen, true friend and an obliging neighbor. Lver since
inception of the Western Fair, he had taken a deep inits 2nd Vice-President, and no more practical or useful was recognized as un expert judge of poultry, and had officiated in that capacted States. Besides his wife, he in canada and the thed by four brothers, all residing in Middlesex

JUDGES FOR THE CANADIAN NATIONAL HORSE

MUNICIPAL REGULATION OF LOCAL MEAT - SUPPLY Editor The Farmer's Advocate a
I Deg to acknowledge receipt of your letter of March 24th, calling attention to interviews published in
the Toronto Globe of that date, in which several meat the Toronto Globe of that date, in which several meat
packers state that the Meat and Canned Foods Act packers stace in in in instice on the establishments en-
inficts gaged in interprovincial and export trade, by imposing on them conditions not applying to those engaged In purey adequate reason, except the expense of administration, why the Dominlon Act should not apply universally. This matter was fully threshed out in the House of Commons last session, when the buntwas under cicaly cussion. The position in this country in powers of the Federal Government extending only to trade with foreign countries, or between one Province and another,
while trade which is confined within the boundartes of while trade whic eld to be entirely under the control
any Province is held of the Provincial authorities. 'This is especially true as regards meat inspection, a subject intimatery asso-
ciated with public health, one of the matters which, ciated with public health, one of the matters which,
since 1872 , has been dealt with altogether by the Pro vincial authorities. Provision is mude, either by the Municipal Act or the Public Health Act of each
Province, and in some cases by both, for the establishment and carrying on of Municipal Meat Inspection, anil that this legislation has up till now, in too many cases, remtaind ind a dead letter, or, at best, been very in-
at effectively enforced, is no
ties. Further, a it tite consideration will, I think, demonstrate the utter impossibility of this or any other Federal department undertaking the supervision, In, all its ramilage throughout the Dominion. On the other hand, under the Provincial laws above mentioned, it is
隹 quite possible for municipalitios to organize, at but
litle cost, it thuroughly effective system of local meat ittle cost, it thuroughly effective system or local meat nspection, the machinery being in many cases required herefore, comparatively small. Furope and elsewhere, Present-dny seniment reverions in Chicago, is very strongly in favor of the exelusion of all forifg meats, sive those firoberly ingpected and certified by the uthorities on this condition with a view to preserving was valuable : export trade in bacon and stmilar products that the Meat and Carned Foods Act. was passed and put into operation. In urging this measure
upon the authorities here, I foresaw clearly the effect it upon the authorities here, I foresaw cleariy the
would have on the public mind, with reference to the would have on the pubection of meats for home connecemption, and the agitation now making itself felt in many of the larger centers or popard me any surpriee the country does not, therefore, aford me any surprise. come seized of the situation, they will insist upon the doption by the various municipal authorities thatough out the country orers and the meat trade generally than
dealing with butchers has hitherto been tolerated. It does not appear tht me that there is any need for or likelihood of confict. We are setting a fairly high authorities to adopt, under the legislation now existing, regulations somewha similar to ours with the view of rendering unmarket able diseased or otherwise unsound meats,
present conditions, cannot enter establiphments engaged in export or interprovincial trade. The frat and mos important, stép in this direction win, ipal abattoirs, to say, be the prover inspection methods similar to those required by the Meat and Canned Foods Act, especiall as regards the admission the private slaughter house is carcasses. The sooner the private slaughter haves con abolished altogetrer, the better or all parties
cerned, as most of the objectionable meat placed on the market emanates from these undesirable and un-
sanitary places. The trade in home-killed, dressed carsanitary places. The trade in home-kiled, dressed
casses will, also, for similar reasons, gradually be wiped out of existence. and although the abolition of this form of meat disposal will probdbly cause some temporary dissatisfaction among farmers,
 perquisites hitherto utilized in the household will cease necessity, and must come. I am not yet suffering from senile deca), but I can recollect when the number hospitals in Canada could be counted on the fingers, and when a proposal to erect an institution of this kind in a small town was
a mild form of insanity. How many of the communi-
 would be satisfied to do without them? The same will be found true of the abattoir, and if no other argument could be advanced in act that it has aroused
Canned Foods Act than the fact and is arousing public opinion on the great and im-
portant
question of the sanitary-meat supply, this portant question on fully justify its being placed on would, in my opinion fully justiry its being phord,
the statute books.
I. G. RUTHERFOR veterinary Difector (ieneral and Live-stock Commis-
sowa raises on an average 29.5 bushels of oats per
Iowa raises on an average 29.5 bushels of oats per
re. Her highest average yield in five years has been

THE OIITARIO GOOD ROADS ASSOCIATION The annual meeting of the Western Ontario Good
Roads AAsociation was held in Toronto on March 24th Roads Aasociation was held in Toronto on March 24th
and 25th. The meeting was opened by Lieut.-Gov. Sir Mottimer Olark, who emphasized the importance to the country of grood roads. In Canada, attention thad
hitherto been chiteny peid to the construction hithorto boen ehieny paid to the construction of rail-
ways, but thene would be of little benefit to the farmers Ways, but these would be of little benefit to the farmers
uiless there were good roads to connect the farm with
the ratlway the railway. II his prods to connect the farm with
with loan companies, he knew that practice, connected
隹 with loan companies, he knew that the value of a farm
depended largely upon its situation in relation to the
roads. Bat roads biter roads. Bad roads blocked the transport of goods to
the market, causing both loss and injury, as well as wear and tear on the horses, harness and wagons. A. W stated that during the last ten years the municipalities,
of the Province had spent $\$ 10,000,000$ cash on roads, of the Province had spent $\$ 10,000,000$ cash on roads,
and if this had been handled efficiently it would have sufficed for good roadbeds for ten years. The great thing was to have a competent road engineer, and a
proper inspection of the construction work. Three or proner inspection of the construction work. Three o
four miles of road well done would be the best mean of converting the ratepayers to the cause of goo roods. He also advocated strongly the building of bridges in the most substantial manner, by means
cement or concrete. Coment or concrate. W. J. Gage said that Wentworth
Count 150 miles of improved roads, County system had proved generally satisfactory to the ratepayers. They had built 25 or 30 miles of road sear. John Coffy said that simcoe County had planne asystem of nearly 500 miles of road, to cost from would to practically completed this summer. Thos. Anson, of Waterloo Co., did not bellieve in the debenture system of paying for road improvement. They should committee appointed to report on the best means to taken to make the work of the Association more beneficial, recommended a change of name, from the Western
Ontario Good Roads Association to the Ontario Goord Roads Association, which recommendation was adopted it being hoped that the change will , tend to increase the membership, and interest all the county counclis of the Provinee in the cause of good roads. The con quested to make a grant of $\$ 10$ annually to defray expenses, and that a deputation be appointed to ask for Government grant to defray the expenses of competen uture meetings. The deputation will be composed W. H. Pugsley, of Richmond Hill; Col. Farwell, Whitby, and ex-Warden Joseph, of Simcoe. The treas119 , and the expenditure $\$ 93$, The offo year wer were : Presldent, W. H. Pugsley, Richmond Hill ; Vice Presidents, wardens of various counties; Secretary resented at Farwell, of Whitby. The Counties rep Wentworth, Peel. meeting were, Ontario, York, Essex, Halton, Wellington, Elgin, Waterloo, and Bruce.

MCREASED GRANT FOR A FIELD-CROP COMPE TITION.
Editor "The Farmer's Advocate fing fields of grain which was inaugurated in 1907, in the Province of Onario, by Hon. Mr. Monteith, proved so beneficial to al argely - ncreased appropriation for this purpose. The objects aimed at are to encourage the growing grain of the best quality, free from other varieties fust, smut, and insec
The competitions excited much interest last year in
districts where they were held, and the results wer he districts where they were held, and the results were decidedly profitable to those who were prizewinners, in smuch as, without leaving home, they sold their grain
rom the fields which were in the competition to leading seedsmen at prices from 25 per cent. to 50 per cent. This year, owing to the larger sum available, entries
ill be received from 100 Agricultural societies or ten times as many as in 1907. Rules and regulations gov
erning the competition will the mailed in the course of eek or so, and I trust you will bring this i

Superintendent Fairs and Exhibitions Branch
GRICULTURAL PROGRESS IN NOVA SCOTIA cultural repor
the Maritime

## the Secretary

the report of the Agriculture of Nova scola, the report of the N.S. College of Agriculture at Truro
presided over by Principal Cumming, who also fills th Department of Agriculture is for Nova Scotia expressly,
the Agricultural College aims to serve the three Marl time Provinces, and it is encouraging to note that, no
only are many short-course students attracted fron
New Hruncwick and Trince Fdward Island, but of th.
the experimental work accomplished noting the progres in the live-stock and other equipment at the College, and, of the work, affords space for a asplendid saries of speciallyprepared articles on the sheep industry, made as prac
tical as possible to the Maritime tical as possible to the Maritime agriculturist. This
series will be issued in bulletin form, and may be had on application to Principal Cumming at Truro. It is proposed to introduce in next year's report a similiar symposium on the dairy industry, and, in following years, the horse industry, fruit industry, etc. Follow
ing out this plan, the Principal has in mind reports which will serve almost as text-books of author ity, and constitute in themselves a fairly satisfactor library shelf in the farm homes of the Province.

ALL IS NOT GOLD THAT GLITTERS. Editor "' The Farmer's Advoc
lished, it may provs letter in the hope that, if pub readers who may perhaps be undecided on the question Shall I go West or not?
Persons who are perhaps
In the Fast, and whose ins dissatisfied with conditions in the East, and whose intentions are to go West, will
no doubt, have read some of the pamphlets issued b
the Canadian the Canadian Pacific Railway and the various land the interest of these land companies to make things look as rosy as possible. They have land for sale and usually give the bright side of the question, leaving the other side to be discovered upon the settler's
arrival. ${ }_{\text {That }}$
not attempt to deny, but is it not also true that lots of people make money in the East. And, then, money it to go through this world hoarding up the dollars and enjoying no comforts, then, w
it all for somebody to spend?
In the West, while conditions
very much the same as in towns in the towns are country life is very much different, and it is the country used to living to speatc of: A person who has been farm containg 50 or 100 acres, will find a veige average ence when he arrives in the West, and finds farm consisting of from 160 to 2,000 and 3,000 acres. It is not quite so handy when you wish to borrow you rods, you have to go one or two miles. It is worse still when you live on a homestead should you be lucky enough to secure one, which it it
almost impossible to do within 30 or 40 miles of rail road; in fact, I know fellows who, last summer, 10 road. Think what it means to take a wife and family such a distance from civtlization-no neighbors, unles it be Galicians or Doukhobors, who do not make the best of neighbors; shut off, as it were
from the world ; no churches and no schools at which from the world; no churches and no schools at whic
to educate your children. To the married man with
 stead, unless you can cancel one within a reasonable
distance of a railroad. To a young man, who has no distance of a railroad. To a young man, who has nd
person but himself to think of, it would not be so bad. A man with a family would be far better either to ren a farm on shares, or buy one close to the railroad. He
would be nearly as far ahead in the end, for the Would be nearly as far ahead in the end, for the man
who has a homestead, and has to draw his grain 30 or 40 miles to a railroad, will find that he is not making much of a fortune; that expenses equal to the receipts. of course, some are lucky
enough to have a railroad run close to their bor enough to have a railroad run close to their home
steads within a year or so after locating. It is pretty much a chance game.

or water. The homesteader replied that he could not
ee where the advantage would be, as he would have to This is not true of evory part, for some localities Something that will be greatly missed hy those who vo West is fruit. Practically speaking, there are ns
wild fruits, although, in certain years, in certain parts,
they have coond crops of sackatons they have good crops of saskatoons and wild plums,
Willil fruits are not to be erlied on, therefore the setter
must depend wpon imported fruits, which are usully must depend apon imported fruits, which are usually
very dear. Frwits. however. can be substituted to a
great wont with vigetailes, which do well in most
 Is a nice. furm and a good comfortable home, I would wom, and do not srem to be. getting ahead very fast

know of a man who has been in the west for twenty two years, and has 320 acres of land, but it is mor
gaged for all it is worth. He does not drink, no spend his money very foolishly, but is exceodingly shift less. He would never succeed anywhere, East or Wes
You will not see his name mentioned in any Yu wilt not see his name mentioned in any boo
Western Canada. He ts one who has never wo fortune in the Golden West. There are others.
The laboring man who has notions for the West if he is coming with the intention of working on a
farm for a year or so, and then starting in for himself, would be all right. The man who intends to main a laboring man would be about as far ahead he would remain in the East. Wages are slightiy higher, but so is everything else-rent, fuel and food
In Calgary, which is a fair sample of the Western town house rent runs from $\$ 20$ to $\$ 45$ a month; ton: flour in the East for firing engines, costs $\$ 6.50$ $\$ 1.10$ a bushel ; apples, $\$ 1.50$ to $\$ 2.00$ for a 40 $\$ 55$ a box. Wages for a teamster run from $\$ 45$ 5 a month; labor from 25 to 30 cents an hour
carpenters, 30 to 35 cents an hour, and brickleyers to 40 cents an East. The people who seem to be making the money are the real-state men, and even they have not done much business this winter, this being a very dull Any who read this letter, and who should come West and take up a homestead, I would advise to be then stick to it. Don't be like the man who took up a poor homestead, and, arter living on it some time
left it, and posted the following notice on the Ten it, and posted the files from water notice on the door I've packed my grip and left this homestead for good."

WOULD PROHIBIT AUTOMOBILING ON SATUR DAY AND PART OF SUNDAY.
Among the hall-dozen or more bills introduced int he Ontario Legislature this session to amend the "Ac
o Regulate the Speed and Operation of Motor ehicles on Highways "' is one fathered by C. M. Bow an, M. P. P. for North Bruce, which, il enacted ould oblige motorists approaching horse-drawn vahicles
o " operate, manage and control such motor vehict in such a manner as to exercise every reasonable pro caution" to prevent the frightening of the horse o horses, and ensure the safety and protection of th
cider or driver. Moreover, it stipulates the the limits of a city or town, the motorist shall stop his vehicle, including the motor, at a distance of a least 100 yards, until the horse or horses have safely passed, and shall, in addition, if deemed neccessary, assis automobile is going in the sime direction, the chauffeu shall signal his desire to pass, giving the rider o passed with opportunity to turn out so that he may be he shall stop his vehicle and not proceed towards the horse or horses unless necessary to avoid accident or in jury, or until the horse or horses are under control
The same bill provides for the prohibition The same bill provides for the prohibition of automoexcept cities, between 7 a. m. and 9 p. m. on Satur NOXIOUS WEED SEEDS IN WESTERN SCREEN During the past year or so considerable attention as been drawn in year or so considerable attention
purity in Weatern grain. As the matter of soed imoffiered for sale for rough ieed, a danger of wide infection arises through the I'rovince. In order to hav
some definite information on the subject, the Botanica
Department of the Ontario Agricultural College prooured Department of the Ontario Agricultural College procured
samples of screenings from representative districts hroughout the West, and from Ontario millers who ship Western grain. In eacn case twenty grams of the screenings were analyzed, and the alarm sounded turned
out to have been justified, as the seeds proved almost
invariably

APPLE EXPORTERS' GRIEVANCES
Wxporters' Association, held at of the Brunswick House Colborne, Ont., discussions took place relative to the apples, such as delays in securing cars, delays in
transit, rough hundling at the senboard, overloading teamships, slow service, etc. A committee was ap
$\qquad$Following are the officors of the Canadian Forestry
Issociation as alected at the recrnt meeting in Mont-
$\qquad$
$\qquad$

## the <br> amount saved

## dURING THE YERR

Is the Test of Your Progress
A Savings Account in the Bank of Toronto in which to keep your spare
money, will prove to be both profitmoney, wil prove convenient to youth it wifil surely help you to save your money
THE
Bank of Toronto offers every convenience to Savings
Depositors-Interest is paid on all

INCORPORATED 1855,
Head Omoe,
Toronto
Lead Omoe, Toronto, Can.

## MARKETS

TORONTO. LIVE STOCK.
$\begin{gathered}\text { Receipts of live stock at the City and } \\ \text { Junction } \\ \text { markets last week }\end{gathered}$ were moderate. Markets last week Were
Thetal for the weik Was
moter 167 carloads, consisting of 2,583 cattle,
3,258 hogs, 381 sheep, 269 calves, and
195 and cattle was small in comparison with chase that were hall-fat. Trate, how-
thoer, was better, owing entirely to the ever, was better, owing entirely to the
light receipts. Prices were, on an average, abeut 10 c
week
previous. $\qquad$ March 30th, at Toronto Junction, receipts numbered 1,000 cattle;
uality much better; trade brisk; prices 25c. to 40 c. per cwt. better. Export preers,
$\$ 5$ to $\$ 5.60$; picked butchers', $\$ 5$ to $\$ 5.25$, loads of good, $\$ 4.75$ to $\$ 5$; medium,
$\$ 4.40$ to $\$ 4.65$; common, $\$ 3.90$ to $\begin{array}{llll}\$ 1.30 ; & \text { eows. } \\ \text { bulls, } \\ \$ 4.50 & \text { to } \\ \$ 4.75 . & \text { to } & \$ 4.25 ; & \text { export } \\ \text { Sheep, } \\ \$ 5.25\end{array}$ $\begin{array}{lll}\text { bulls, } \\ \text { ambs } \\ \$ 7.50 & \text { per cwt. } \\ \text { to }\end{array}$ catered, and
Exporters.-Last week expoit steers
Exp sold
at $\$ 4.85$ to $\$ 5.25$; export bulls,
$\$ 3.75$ to $\$ 4.50$ per cwt. $\$ 3.75$ to $\$ 4.50$ per cwt .
Butchers'- Selected lots of steers and
eiffers, 1,100 to 1.250 bs. each, sold at $\$ 4.75$ to $\$ 5$; loads of good, $\$ 4.50$ to rough aattle, $\$ 3.90$ to $\$ 4.25$; cows,
$\$ 4.25$; and canners, $\$ 2$ to $\$ 2.50$. Milkers and Springers.-There was not
much change in the market for milkers much change in the market for milkers
and springers last week. There was a and springers last week. There was a
satisflactory outlet for
che good to
choice cows, which sold steady at $\$ 40$ choice cows, which sold steady at $\$ 40$
to $\$ 50$, with an odd extri-quality cow at \$55. Most of the medium cows sold
at $\$ 30$ to $\$ 35$, and the common grades sold at $\$ 20$ to , $\$ 30$ each.
Veal Calves.-There was not much change in the calf market last week. A
fairly good demand prevailed for the fairly good demand prevailed for the
good to choice-quality kinds. The bulk
of the best sold at $\$ 6$ to $\$ 7$, and a few of the best sold at $\$ 6$ to $\$ 7$, and a sow
of exira quality, $\$ 7.25$ to $\$ 7.50$. Some
inferior sold at $\$ 4$ to $\$ 4.50$ per cwt. inferior sold at $\$ 4$ to $\$ 4.50$ per cwt.
Sheep and Lambs--Deliveries of sheep
and lambs were light. The market was



## $\checkmark$

## $=$

THE FARMER'S ADVOCATE.

oil cake, $\$ 38$ per ton, and gluten meal.
$\$ 1.50$ per 100 Seed.-Prices were a shade hlgher last Seek, red clover selling at $\$ 23$ to $\$ 24.50$
wer 100 lbs .; $\$ 17$ to $\$ 20$ for alsike; $\$ 21$ per $100 \mathrm{lbs} ; \$ 17$ to $\$ 20$ for alsike; $\$ 21$
to $\$ 22$ for alfalfa, and $\$ 6.25$ to $\$ 7.50$ to $\$ 22$ for
Hay.-An oversupply on spot depressed prices. Demand on the dull side, localy, and little going for export.
No. 1
imothy, $\$ 15$ to $\$ 15.50 ;$ No. $2, \$ 13$ to imothy, $\$ 15$ to $\$ 15.50$; No. $2, \$ 13$ to
$\mathbf{\$ 1 3 . 5 0}$; clover mixture, $\$ 12$ to $\$ 12.50$, and clover, \$11 to \$11.50. Hides.-Calf skins were a cent higherf dealers paying 9c. per 1 b . for No . 2, and
11c. for No. 1; beef hides steady, 5 c , 6c. and 7c., respectively, for Nos. 3, 2 and 1, and selling to tanners at tc. ado
vance. Sheep skins, 75c. to 80c. each, and horse hides, $\$ 1.25$ for No. 2, and \$1.75 for No. 1. Tallow, 1c. to 8c. per
1h. for rough, and 5c. to 5 jc . for ren-
dered.

BRITISH CATTLE MARKET London.-London cables, 104c. to 124 itc
per 1 lb ., dressed weight; reftigerator beet, c. to 9 ic. per lb .

Meeting of Holstein Breeders. At the St. Lawrence Hall, St. Jamees
 tion of Canada, President J, FE.r K. Herrick, presiding. The meeting wai most enthusiastic. Members were pres ent from all over the Province, reporting
in their districts groat advances in the
$\qquad$
$\qquad$ Mr. Herrick, in his openling addross,
reviewed the doings of the past year; howing the creditable increase in memQuebec. The Geniral Society, notwith standing large prizes paid at the difirmethod of encouraging the breed, trying to have its merits become better known,
has $\$ 5,000$ in the treasury has $\$ 5,000$ in the treasury. A departure of the Society was dwolv
on to the effect that cups mould he prosented at each of the prominent exxhibitions to the champion grade daily con,
providing she was a Holstein, sired by pure-bred Holstein bun. It wae realized that the way for the dairy in-
terest to improve was for the farmer to breed up hisprove present herds,
The Record of Performance, inaugurated by the Governement, was ap-
proved, and members requested to avail themselves generally of its advantages.
Members were urged to help along the Moceal exhisits of Hod toleing
wood, thi Medical Dine Dame Hospital, advocated of Notro vantages of Holstein milk as a diet; it vitality, low percentage of sat and quanmille for chlidron, finvallas and otheref, it being a perfectly-balanced milk. lege, this year would install 20 of the best Holsteins it was possible to purchase. The burning of the birns at
the farms had delayed them in this a It was pointed out that during the
past year a cow of the breed had be past year a cow of cow of the world
come the champion cow with a record of $1,247 \mathrm{lbs}$. of butter for the year, being 20 per cent. more than the best of any other breed. nounced that he was giving a sailver cup for the best pure-hred Holstein bull, any age, to be competed for at the coming
fair of the Jacques Cartier Co. Agricul-o fair of the Jacques Cartier Co. Agricul--
tural Association, and advised mambers
to do the same in their different counties.
Officers
Officers were elected as follows: Hon.
Jules Allard, Minister Honorary President; J. E. K. Herrick, Abbotsford, President ${ }_{i} \mathrm{~L}$. de L. Har-
wood, M. D., 1st Vice-President. Antoing wood, M. D., 1st Vice-President; Antoin
Ashby, 2nd Vice-President; P. J. Salley 3nd Vice-President; Neiß Sangster, 4th Vice-President. Directors-Ogden Sweet.
N. Sutton; H. Beauregard, St. Damasce; Dr. Godreau, St. Sebastian ; J. Pettes, West Brome; Capt. J. J. Relliy $\underset{\substack{\text { Jr., Graham; } \\ \text { Dierre } \\ \text { Fiscet, } \\ \text { A. Fourmier, } \\ \text { Contreccour, Propolis }}}{ }$ Treasurer, F. E. Came, Canan Farm,
Tant
Sualt Au Recollet; A. N. Delard, N. P. St. Johns, Asst. Secretary.
After the business meeting, the memAfter the business meeting, the mema sumptuous repast was provided by the
St. Lawrence Hall.
 and fornatiour


PEOPLE, BOOKS, AND DOINGS. Lady Ruby Elliot, second daughter of the Earl of Minto, and niece of
Narl Grey, is to be married to Viscount Errington, son of the Earl

The famous Sheffild Choir, of Shef field, Eng., composed of two hundred voices, will visit Canada next Oc ober.
Madame Alla Nazimova; the won-
derful young Russian actress, who has fascinated New. York for the last few years, states that she
studied the part of Ibsen's "Hedda studied the part of Ibsen's " Hedda Concerning this drama, she says "I Ibsen seems to have gathered al he had observed and known of all kinds of women, and combined them in Hedua Gabler
Professor Flie Metchnikoff, the famous scientist, of Paris, whose ex periments are being directed towards
the prolongation of human life, is the prolongation of human in the brother of the original of Tolstoi's Ivan Ilyitch. ". There i probably no more mercilessly
study of death in any langua study of death in any language,
says a writer in T. P.'s Weekly, "than the death of Ivan Ilyitch," and the sub-director of the Pasteu Institute, as well as the great novel-
ist, studied it minutely. "Knowist, studied it minutely. "Know writes, " from pyemia, at the age of forty-five, my brother preserved his
great intelligence in all its clearness. reat intelligence in alits clearness his reflections in the most objective fashion possible. The idea of death
was for long very terrible to him. was for long very terrible to him ign himself,' saying that, ' after all
there was only a quantitative differ nce between death at, the age of King Edward has had the famous parts at the Asscher Diamond Works Amsterdam. This diamond, which was presented to the King by the
South African Colonies, was the largest ever known, being large than an ordinary duck egg.
A book-dealer named Thorpe, whil examining a newly-acquired first ed ion of Erasmus' work on marriage
'The Christian Matrimonial Institu ion," found evidence that it ha been bound especially for the library
of King Henry VIII. Underlinings nd numerous marginal notes, Thorp polygamist. The book was pub lished in 1526, the year King Henr applied to the rope for a divorce rom Katherine of Aragon. Hand ion to passages bolstering the king' ontentions against Katherin
$\qquad$
authorities to find support for the
ing's contention. Edouard Belin, of Lyons, France was the first who was able to trans-
mit a landscape telegraphically, the first picture thus "wired" being a ittle church surrounded by trees. Professor Korn, of Munich, and transmitting portraits
The Prince of Wales, the time f his coming visit to Canada, during the celebration of the Champlain companied by the Atlantic fleet acsisting of six battleships and ten cruisers. The only pageant as yet settied upon for the celebration will obvious reasons, there will be no pageant of the taking of Quebec, but a monster military review of CanaPlains of Abraham
China is an empire of dialects. guage that all Chinamen can speak for the official language, or Pekin Mandarin, is scarcely heard outside
of Pekin and the adjoining provinces, of Pekin and the adjoining provinces,
while the " book " languages, used for all the higher class-books and imperial edicts, is only known to educated Chinese. That the number from the fact that it is necessary to learn from two thousand to four thousand characters before being able to
write or read Chinese with any fa cility. Of late, however, a strenuous effort is being made to introduce English into the schools, and it is not improbable that it may yet be
the language of China. he language of China
ment of telephony, which does away with the necessity of using either the receiver or transmitter, as at
present, has been introduced into one hundred and seventy churches in the T'nited States, and into all the offices of the new Congress buildings. By its use, it is possible to listen to sermons, addresses or musical enter-
tainments which are being given hundreds of miles away. In China, where the drama is held
in little esteem, actors and barbers are considered too low to be admitted into the colieges
Tokio is to have a World's Fair in
1912. It will be known as the

SELECTIONS FROM THE POETS The Little Sister of the Prophet [By Marjorie C. Pickthall. Miss Pick Canada at such an early age that she may be legitimately claimed as a Cana
dian witer.] If therg arise among you a prophet on
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

This morning he cried, "Awake,
And see what the wonderful grace of the And see what the won
Lord hath revealed And we ran for his sake
$\qquad$
$\qquad$
our father's field, But. his halley below.
But his hands were upral
and he cried to us,
Ye may ponder and read
The strength and the beauty
rolled in a fiery screed.
Then the little brown mother smiled. As one does on the words of a well
$\qquad$ Son." she replied.
$\qquad$
$\qquad$ And he sighed dant.

Will he come from the byre,
With his head all misty with dreams and his eyes on fire,
Shaking us all with the

## words of his passion? will give him raising

And wreathe young leaves on of dates red plates:
will put on my new head-ty
And braid my hair in a com
Will he note? Will he mind
Will he toich
Will he touch miv cheek mind?

A VICTORY FOR POSTERITY Anethou sond or roms or or ly that a victory was won recent posterity. This victory is not for less than the decision rendered by
the Supreme Court of the United States that women may be protected by law against commercial greed. It
seems that an Oregon laundryman denied, on constitutional grounds the right of that State to put limits that were not put labor for women labor for men. The Supreme Court
of the United States now declares that the State has that right. The
significance of this decision significance of this decision no one
can foretell. Fundamentally can foretell. Fundamentally, all islate alike upon all questions that really affect the moral and general
welfare of the people; and now that the people of the United Stat through the lips of their highest
legal tribunal, have declared that legal tribunal, have declared that
their women must be protected by law from influences and agencies that mean harm to woman in her matron-
Iy and motherly capacity, the day is near when the judicial verdict ren-
dered by Chief Justice Brawer will be dered by Chief Justice Br, wer will be
not only the law but the practice of
$\qquad$ right to sell one's labor or one's
skill must be safeguarded. 13ut more important still, and still more in
need of safeguarding, is the ripht of cevery child to he well born. Healthy
mothers are one of the conditions of vigorous offspring. The physical
well-theing of woman is, therefore, a
$\qquad$
man must be protected against, no only the passion of man, but agains
his greed as well.
The matter can not be more concisely or aptly pressed than it is in the words of
Chief Justice Brewer: "/ Many words cannot make this matter plainer. The two sexes dif fer in structure of body, in the func tions to be performed by each, in the capacity for long-continued physical labor, particularly when done stand ing; the influence of vigorous health upon the future well-being of the
race; the self-reliance whicl enables one to assert full rights, and in the capacity to maintain the struggle for subsistence. This difference justifie a difference in legislation and up.
holds that which is designed to comholds that which is designed to com
pensate for some of the burdens which rest upon her."

## OUR LITERARY SOCIETY

SELECTIONS FROM THE ESSAYS WHAT CONS
It is not alone the child who is im pressed by appearances. We are al
more or less disposed to think tha correct dress and imposing carriag indicate "s somebody in particular" in other words, a successful man
If he smokes half a dozen or more hand-filled Havanas daily, signs his name with an unintelligible flourish and pays monthly tribute to chauffeur, we are apt to behold hin the ladder. Accounts of his philan thropic deeds, also of his wife's so cial functions, constitute part of ou woman upon whom the rod Lucr has stamped his glittering seal that the modern world looks upon as be accumulated wealth does Howevel sarily imply success. It implie vastly more than this, for the meas ure of a man is not what he has,
but what he is. Nevertheless, there is often imjustice in the tirad diligently studied husiness methods and who has, with unremitting ei
fort, reached the zenith of his busi ness, well merits the harvest, and he joyment thereof. Yet no man has a right to tread under foot, as step of God's creatures. The capitalist who thinks no more of the souls of his men than the motor-power tha of wealth and "standing." Also the speculator, who frets in his of the starved cattle upon the frozen money on them-may show outwar these men lack the inward and spiritual grace, without which no ma If this were the only life, and at tainment were measured by dollars
and conts. it might be different, but neath the stars." We are taught that neath the stars." We are taught that this world is hut a preparatory
school for a higher form of existence Makeshift. Paradoxical as the The world often fails to rightly the many different subjects, have
statement may seem, true success value the higher type of men. It struck me forcibly. One, especially, stans in spite of failure, for honest applauds the man of money or fame, "The Daughter's Portion." God
wins endeavor can never complete fail- who perhaps is born to it, and with has left in the home sons and
ure. Turning our faces with de- no inherent worth. But it crucifies daughters. The sons work year Ure, termination toward our Mecca, we Christ; it burns its Savonarola and after year. When they feel inclined termst press on, hoping alt things, Hruno; it ignores its Shakespeare; to settle down they get a farm or
man
mat

The Quiet Hour.

THE FIRST HALF-WAY
I will very gladly spend and be spent for you, though the more abundantly 1

love you, the less I be loved.-2 Cor | love |
| :--- |
| xij: |
| you |

Come, my beloved ! we will haste and To $\begin{aligned} & \text { go } \\ & \text { those pale faces of our fellow men }\end{aligned}$ Our loving hearts, burning with sum will cast a glow upon their pallidness; Our hands will help them, far as servants may;
Hands are Apostles still to saviourhearts. their blessodness So we may share their blesssdness with them

I have just come in from a meeting where several people spoke about the best way of getting into touch with the
voung men and women who live in lodg-ing-houses. One spetiker remarked thet ing-houses. generally willing to meet a visitor hall-way, if the visitor took "the first hall-way. I could not help thinking that we might all do more good in
the: world if we were ready, not only to the world if we were ready, not ones to others, but, also, ready to take the ini-
tiative taking the "frat " half-way tiative-taking the "first" hall-way.
Since I began settlement work, it has Since I began settlement work, in has
often been my duty. to try to pertorm the thankless office of a peacemakker. Two girls, who were inseparables a week ago, may refuse to speak to each other,
though they belong to the same elub. Once in my experience this was because one girl went to the night school one evening without calling for her friend. The Ariendship "soo-caned-was assed comfort of the whole club, was destroyed. Shat was to be done? I had a serious
nik with both girls, and they were as nxious as anybody to have the breach anxiled, but neither was willing to take the first step. "I will speak to her if
,she will speak to me," said one. The she will speak to me, sald one, The
other declared with equal positiveness, "I haven't done anything to make her langry; it isn't my fault, but I am not going to speak first." Do you see the
diffleulty? Each was perfectly willing difflculty ? Each was perfectly willing
to go half-way in a reconciliation, but it

THE DAUGRTERS SHARE.
a cent." replied the beggar. What differ
Have been a silent reader of "The
grunted the pelestrian. Farmer's Advocate" for years, and ence does it make which side of the you're on?"--[Lippincott's Magazine discussions all down the vears,
perhaps money, and marry some
good daughter of the neighborhood. good daughter of the neighbornood.
The son always gets his portion. What of the daughter? She may
have been clever at public school, have been clever at public school,
and, through some sorrow in the and, through older sister marrying, has had to give up her bright future and go home to work for those
brothers, and all she gets for her brothers, and all she gets for her
trouble and work of years are good trouble and work of years are good
clothing and her board. She gets clothing and her of of spending money. Then, the brothers get the farms, and the daughter, to make a sivat
must either go and work as servant girl, or perhaps marry some man she does not love for the sake of a home. There are girls who get dis-
share, but they are few in my disshare, When so much is expected of our Canadian girls, why do they not get a better chance? When a girl once feels she is out of a home,
she is desperate. She is the only one who knows the depth of her position. She has no choice left, and gladly accepts, for the sake of
home, some man's offer of his hand. home, some manhter a chance to do for herself, and in the end she will better know the value of money and
what her place is in the world; and what her place is in the and a better home-maker, better prepared in every way to take up woman's work, and minister to all the wand
she truly and earnestly loves. A READER
Are there other opinions on this important matter ?-Ed.]
". Beg pardon, sir," began the beggar
"Bei pardon, sirr,
stopping a suburbanite at the ferry. "Can stou spare a few cents to help me acros the river?"" "Haven't you any money cast Bunyan into prison, and drives William Booth out of the
church. But truth is never finally crushed; so, after long years, these men of noble breed come to their
own. Thus, success in the higher $o \mathrm{wn}$. Thus, success in the higher
the enduring sense is to be found in the evolution of the character in
which the whole man is informed which the whole man is informed
with all the higher attributes of hu with all the higher attributes of
man nature, which the common judg man nature, which the conmen from all others in the upward reach of the
Thus, success is often found in the
Sarb of butward failure. Johnson and Goldsmith, starving for years in Grubstreet, yet each attainng an immortal name; Christ dying upon the cross, with only a mere
handful of followers, and even betrayed and forsaken by those; Paul leaving family, home, wealth and luxury to follow a despised wandere
preaching a religion held in con tempt.
But outward failure is not neces sary; that man is successiul who ives in accord with the higher
of his being, as approved by the race; who has the classic virtues of fidelity, and courage, etc., tempere who is in his field, however narrow however unimportant, finds roorn

The clouds that gather round the
setting sun
Do take a sober coloring from an eye That hath kept watch o'er man's im-
That
$\qquad$
To me the meanest flower that blows Can give thoughts too deep for tear DoNald MacCALLUM
Frontenac Co., Ont.
.

A Perennial Border.



APRIL 2, 1908
insertion (cream) being caught down here
and there with small medallions made and there with small medallions made of
jet beads. Ornaments resembling hat
pins, with long jet heads, and a black pins, with long jet heads, and a black
facing, completed the trimming. Copen hagen blue, by the way, is very fashion
tible this season, and very pretty able this season, and very pretty and
cool and spring-like it looks on thos who are fair enough to wear A leading feature of the millinery this
year is height. When the crowns are not raised, the newest shapes have the
trimming piled up much higher than for trimming plied up much higher than fo
several seasons, the fabrication being made of soft ribbon bows, loops and
mosettes, large flowers, such as roses and chrysanthemums,
0
ostrich feathers, etc.
The digereet woman whil, however, keep
clear of too much exaggeration in any of clear of too much exaggeration in any of
the new modes. We saw, this afternoon two or three towers of Babel about foot about as grotesque as she chose These were "turbans," save the mark
The sailors, too, to be strictly new, this season, may be flat, but must be large season, may if of the "Merry Widow"
eappecially if
variety,-as large as a daisy-churn to variety, -as large as a daisy-churn op,
or larger, if you choose. We saw one of such dimensions, that looked like
military review, all spread over, as it
was, with ecarlet ribbons and things tha was, with ecarlet ribbons and things that
looked like bayonets. Another had a looked like bayonets. Another had a
scarlet band around the crown, and a scarlet band around the crown, and
round pile of scarlet velvet flowers, as large as a cabbage, at one side. I pu
it on my head to see how beautiful would look under it, and it immediately
fell down over one ear-on the cabbage

But even this structure was mild and
modest compared with a drooping thing in another store, a cerise (ught) affair, upon which a good pailful of cerise and
magenta wistaria blossoms had been magenta
dumped. Miss
M. spirit, who resides in the next room) de-
clares this invention only suitable to a Central African complexion. She also high crown surrounded by wings "turned Inside our. D . and I, by the way, are having a
grand time talking millinery these times. Now, then, I must tell you about some of the really pretty ones. First of all,
there was that Copenhagen one of which there was that Copenhagen one of have theld you. Then there was an-
I have tol other, quite as pretty, in the same shade,
a Copenhagen chip sailor, with Copenhagen bows centered with black insertion, and black wings. We agreed
with the milliner that it was a "dream." Another very pretty hat, of a cham
pagne shade, was of moderate size, but depended chiefly on the gracefulu curves of
the brim, which was slightly shorter in the brim, which was slightly shorter in
front and drooped somewhat at the back front and drooped somewhat at the
for its effect. The sole trimming of this
hat consisted of a black velvet band about the crown, a coupie of big brown and a mass of straight, black ostrich teathers drooping over one side. sailor, wery handsome, heavy, brown net trimmed with brown roses and foliage, with masses of "old rose" roses and foliage. A serviceable rough straw
sailor, in tan, had high ribbon loops toWards one side of the front, and a
wreath of copper-and-brown chrysanthemums running round the crown.
There were also some lovely hats in all black, the latter being chiefly in heavy net to appear as summery as possible. I noticed very few gray or green hats,
but saw several in old rose. One very
hand handsome navy blue one was made of
blue net, with velvet-edged brim, and silver lace. velvet ribbon appliqued with
The most satisfactory feature about $\checkmark$


 und which makies the difference between - ust one more word-in chosing a hat
not fail to look to its servicenblity Culle or malines construction may by
power of the sun have done their work.
We can give this advice with authority-
for, alas! in this also we have been
stung.

## the out of the reach of children. It is

 Derhaps, better to try thisafter every other has failed.

Tea Stains, etc
ques uest Wame Durden,-As my last re encouraced answered so promply, I am me what will again can you tell linen? I have tried so many things rilk, glycerine, salts of lemon, etc.-but still the stains remain. As they are on great grievance to me.
I thought one me
wrinkles" might he of our "hospital Wrinkles " might be of help to someone:
To remove blood stain more unsightly) from mattresses blankets, clothing, etc., apply a thick paste made of common starch and water.
When dry, brush off When dry, brush off, and if stain has not entirely disappeared, apply again. Re
peated applications may be necessary the stain is of long standing, but, it patience is used, it will be successful. thanking you in anticipation.
BABY BFTTY'S MOTHER Durham Co., Ont.
on receiving your letter, I searche On reciving your letter, I searched
through and through my boaks to see if I could find some enlightenment as to
how the obstinate stains in your table how the obstinate stains in your table
linen might be removed. By far the minen might be removed. By far the
greater number of articles on the subject recommend treating the strins before
they have time to dry by stretching the they have time to dry by stretching the
linen over a bisin and pouring boiling water from a considerable hetght. For stains that have become "set " I found
the following methods recommended: the following methods recommended:

1. To spread with a mixture of egy yolk and glycerine, and expose to bright 2. To soak in cold water, spread with glycerine and leave all night, then 3. To use Javelle water when boilling. 4. To use chloride of lime. This last
method will, as a rule, remove the most method will, as a rule, remove the most
obstinate stains, but it must be very carefully used, as, if not, it is destructive to the limen. To prepare it, put
pound chloride of lime into a pail with 3 pints cold water. Stir well, and let stand, covered, for a day or two, then strain through $t w o$ or three thicknesses of muslin to remove every particle of
solid matter that may remain, and cork in a bottle. When needed, apply a little to the stain (try it considerably diluted
first). then rinse immediately first). then rinse immediately through
several waters, and launder atterwarde. several waters, and launder afterwarde.
Be sure to keep the chloride-of-lime bot-

A Budget of Questions Dear Dame Durden,-Although I b hever written to the Ingle Nook, I have and have received many helpful hints hereby. Now, I am coing to drop in and make a few enquiries: 1. How can organ keys that. have color? red be restored to their normal 2. What will keep little green lice off a 3. What will brighten the nickle trim-
mings on a heating stove when it has
turned brown with the heat? I wonder if any of the Chatterers ever tried soaking bacon in buttermilk instead of parboiling. The meat browns much nicer without being overdone, and
makes such nice brown gravy. It wanted in a hurry, simply dip, it in buttermilk arter parboiling, it will do almost as
well; but soaking gives a nicer flavor Well; but soaking gives a nicer flavor.
We live back in the bush, six miles We live back in the bush, six miles
from the post office. My husband works at lumbering, so we are pretty well shat
in in the winter. in in the winter. I have five children, and do all the work myself, sewing sind
all. Have not very much time for visiting or reading, but always manage to
read ". The Farmer's Advocate." read "The Farmer's Advocate", I
really do not know how we should get eanlly do not know how we should get
along without it. Well, I must not not
make my call too long, or you may not make my call too long, or you may not
want me to come again, and I might
Simcoe Co., Ont. MARGARET.
Be sure to come again, Margaret. I
hope you love the woods as much as I hope you love the woods as much
do. Now, for your questions:

1. To whiten the keys, lay a cotton-
flannel cloth, saturated with oxalic acid, upon them, repeating the treatment, if necessary, until the keys, when rubbed,
become become white. Be sure to take great
care that the acid does not touch any other part of the orgin except the ivory 2. Spray with tobacco water, or with
plant lice.
2. Scientific American says that ordinary rouge is used by nickel-platers to
clean nickel. Mix with a little fresh lard, and apply with chamois, using as
little of the mixture as possiblo. Wipe little of the mixture as possible. Wip
off with a clean rag, slightly olled. Re peat the wiping every day, and polish a peat the wiping every day, and polish as
often as necessiry. The following is
also recommended: also recommended: Take equal parts
precipitated-iron carbonate and prepared precipitated-iron carbonate and prepare
chalk. When using, add a small quantity
of alcohol, chalk. When using, add a small quan
of alcohol, and rub with chamois.

Some Hints for Dapple Gray Other Busy Women. Near Dame Durden,-I am one of the silent ones stepping nearer the front. I want to make a raid on Dapple Gray, and see it there are a couple of good rounds of beef and a fow tongues deep down in the brine, when the building begins and the busy spring days with garden and chickens that can't be
neglected. Now is the time to get neglected. Now is the time to get
ready. Nothing can talee the place of a well-cured, well-cooked and, not least, well-carved round of beef. I do not think one can get more cutting out of
any piece of meat for the same mones any piece of meat for the same mones
as a tongue. Il
it round shape, just large enough to hold t, and all the small bones are talken out of the root, there is no waste for serving
cold. of course, there will be plenty A nice bacon and hams on hand. Heve you lots of currants well cleaned and
dried, and set aside in sealers? are plenty of empty seelers now, and currants so prepared keep well, and are always reidy to use. I would have lots a help when the rush comes. I am busy every day looking over the
summer clothes. The warm deys will summer clothes. The warm days will
soon be here, and it is nice to have a fow shirtwaists, darls onees, with strip of embroidery or insertion, or strip of any white shirtwaist material round the neck and cuffs, ard down the front.
There is no washing collars, or waiting There is no washing collars, or waiting
to fix them then. If getting help is a difficulty, you will find a nice white oflcloth yor the dining-room table will be a
boon where there are a lot of boys or men. hoon where there are a lot of boys or men.
I have six to send out to school, with their lunch, every morning, so I have to conomize time. Hope the building will successful-a home as well as a house.
Middlesex Co., Ont. scotrie.

## HELD-OVER LETTERS

We regret that several letters and intoo late for insertion in the present issue. These will be dealt with, if possible, next time. May I urge upon my Cbatterers again the necossity of asking
questions fully a month before it may bo questions fully a month before it may bo iven? We often have to eearch for inCormation, visit stores, consult with eiरonts, etc., and al

NOTICE RE HAND-bAGS So great has been the demand for our hand-bags, as subscription premfume, that the supply hids been exhausted. Until further notice, no more can be supplied.

The Beginning of a City.



Just try a blended flour once and see for yourself that it does make WHITER and tasties Bread and BiscuitsLIGHTER PastryMORE DELICIOUS Cake.

And there's good reason for it, too.

## Blended Flours

combine the rich nutriment, the whiteness, lightness and delicate flavor of Ontario wheat with the strong qualities of Manitoba wheat.
For all home baking-no flour, milled only from spring wheat, can compare with a BLENDED FLOUR
Look for this trademark on every bag or barrel of flour you buy.

Take no other.
"Made in Ontario"


##  Disc Harrow Disc Harrow

 It does not get chokedfibre like many other ma chines you nanow of. Wha ?
Because on the "Bissel" Because on the "Bissel"" the
scraper blades are adjusted scraper thatey draw to the
(slates and meet them chisel plates and meet them mems thisel
fashion. This mean that
they cannot te forced apart they cannot be forcee a apar
from the discs but will cut right through the dirt, fibre and grass, and aut


| A. - Prong nut of Malleable Iron securely |
| :---: |
| throaded and pinnea: keeps the plates |

B. - fighty 'Steel Braces $1 \% \times \frac{1}{2} / 2$ : make c. the frame stron ond risid : make






away all neck weikh hack and takes
Ganas work up cose in the centre,
Gand
K. - The har ores hinith ound olse to the work


T.E.BISSELL C


SUBSCRIBE FOR " the farmer's advocate and home magazine.


## About the House.

## Housecleaning Hints

 A Furniture Pollsh.-Take crude lin-seed oil, two parts: spirits of tureentine seed oil, two parts; sirits or turpentino
one part; adding a tablespoonful of salt to each gallon onn mixcure, ath alake
very thoroughly, and apply with a sott very thoroughly, and apply with a soot
flannel cloth. Lets stand an hour, then
 odor will leave in a few hours.
To Clean Gilt Frames. Brush all the dust of the frames. then clean with a aust or wh white of egg and common
mixture of
soda. Use one ounce soda to the whitas modare Use one ounce soda to the whites.
sod three egs.
of taundering Lace Curtains.-Shake and
Later
 a
a little washing soda in in some warm soft
water, and clean the curtains by rinsing water, and clean the curtains by rinsing
them about in it; do not rub them on a them about in it; do not rub them on
board. If they are cream-colored, they Boara.
will need no buting. Put through a thin
starch in which a tablespoonful of starch in which a
powdered
borax
has oowdered borax has been disolvod
stretch, and dry quickly in the bright stretin, and ary quichy in the bright
sunlight, if if is desired to bleach them. Be sur, to have starch exxeedingly thin.
Curtains ghould hang in graceful tolds, Curtains shourd hang in gracefu fors are too stifify starched. To Wash Rlankets.-Use plenty of sort
water.
Dissolve Pearline
in the wash weter, and wash well, then rinse through several waters, having each hotter than he one preceding it. Shake out well,
vull straight, and dry quickly in an airy place, where dratts of air have free irirculation. When dry, leave the blankets exposed to the bright sunlight for a
while before putting them away for the Wummer.ore putting them away for the
so clien Wall Paner (A New way) Till clean wall Paper chall beseloth bags with corn meal, and brush as with an ordinary
cloth.
To remove grease spots Irom the cloth. To remove grease spots from the
paper, put a sheet of blotting paper over paper,
the spot, then apply a hot iron. After-
wards rut the place with Fuller's earth To Clean Soiled Photographs. $\rightarrow$ Rub with To Clean Spots from Japanese Mat-
ting.-Cover the spot thickly with chalk and moisten with bencine. When the the
and enzine
has evaporated, brush off the benzine has evaporated, brush of the
chalk and the spot will have isappeared.
Straw mating may hecleaned hy washing Straw matting may be cleaned by washing
with
warm
water
in oxalic aciid has been dissolved. Apply
with a scrubbing brush, then rinse very with a scrubbing brush, then rinse very
carefully with clean water using a sort
coloth, and wipe dry. Clean but a small To Clean Windows.-Try washing windows wth a piece of chamolis, wsing
tepid water in Which a litte soap has
been dissolved. Wring the chamois out of the suds as dry as possible, and wipe
the window over carefuly, washing the the window over carerutry, wasting the
chamoio ount cocrdins as it is solied. By
this method the windows are said to be.


MAKING A KITCHEN CABINET.
Any woman who can saw a board and
drive a nail straight (and there are many such, time worn jokes to the contrary),
can make for herself a roomy and satisfactory kitchen calbinet, and at little exProcure ${ }^{\text {a }}$ small.sized organ box, cost-
ing $\$ 1.50$ or less, these being shaped ing 8 ..no or less, these beeing shaped
something like a roll-top desk, with one
side ont side of the box shorter from the base up,
and having a slope toward the back. Reand having a slope toward the back. Re-
move the barards trom the shorter side of
mon box, and lav aside to use for shelf material, leaving only one board on top
of the slope, to serve as a shelf when done. Nail a strong strip on each end
of the box, inside. at about ordinary
tnite hoitht and choosing the stronvest table height. and choosing the strongest.
of the boards, lay these on the cleats, of the boards. lay these on the cleats,
and nail to position. This is the tanle
bed of the cantinet. lhis may be divided into two sections, if
likel, one to be filled in with shelves. the other fitted with drawers in which to keep flour., sugar. etc. If the skill of
the worker is sufficient to make and hanit doors, these will add to the appearance
of the cabinet, ns well as protect the Contents, otherwise curtains many be hung on rods or wires across the front. Inthe
space above the table bed (which should
aterfere with the use of the table po
ion, screwing hooks on the under sides on which to hang small articles.
on wher There is no hard and fast rule as the fitting up of the inside of such
cabinet, this should be gauged entirely

bility indidual needs, and possibly by acilitate moving, and paint any color match or harmonize with the kitchen you need not be ashamed of writer.

HOW TO DISPOSE OF DUST IM FUR NAGE-WARMED HOUSE

After much study 1 had the registers which bring in warm air, and the out ets for forl air into the onimey, placod all, and side or the an
 an. be sure you understand this. Fou itting, the north wall is and A side-wall register in this brings in warm air. On the same side, at the oor, is a $6 \times 8$-inch register into a chimney flue to take out air from the floor.
The opposite wall, to the south Wutside ons. $\begin{aligned} & \text { wall, to the south, is an } \\ & \text { Our three living-rooms be }\end{aligned}$
outs low open together with wide double doors, so they are practically one room.
grate is the three rooms, which makes center of outlet for air from the floor of each
room. The warm-air registers ara located by an inside wall in each case, and opposite an outside one. Two rooms
have bay windows in them. have bay windows in them. The regis-
ters in each case are opposite these windows, and so is the grate. Now for the
working of the plan, which is very simu ple. When warm air comes from a register it rises. When this warm air, gradu
ally spreading across, reaches the opposite outside cold wall, it slowly cools
and sinks. Warmer air naturally rises and cooler air settles. ${ }^{\text {Wir }}$ The outlet regis and cooler air settles. The outlet regis-
ter, or grate, is drawing air out of the room steadily. It is the coldest air,
which is along on the floor. It will
never never draw down the warmer air from
above. Thus there is a steady, neverending, but imperceptible and somewhat circular movement of air in our rooms,
first up and over, then down outside wall and along floor, hastly, back to out-
let up chimney. Much of the dust goes with it. If the outlet was in outside wall, opposite inlet, you can oee we
would
lose the movement along floor is best-T. B. Terry, in Practical Farmer.

"Hello, Turnips!" said an arrogant country road. "Give a fellow a lift to Newton?" Without waiting for a reply After fide with you as walk."
two or three miles had been covered, the young man paused for a
moment in his chatter, and remarked : C. It's in his chatter, and remarked:
of distance to Newton
$\qquad$
$\qquad$
$\qquad$
$\qquad$ Thight on the way wermer, going now
n'd say 'twould be a matter $o$ ' twenty


## The Young People's Department.



ONION SEED


 SMITH SIBTERS, swansea, Ont

TAKE OUR ADVICE
and aor tiok totan preae

 SUPERFLUOUS
halr
 Hiscott Dermatological Institute


To Be - What P





DEPT. E. TORONTO, GANADA
ORRESPONDENGE
OLLEGE zIMTED


LEARN DRESS-MAKING



Sil wount sprug sixa sh.50
 sUbSCRIBE FOR THE adVocate

were plain to see on his face, and
brought a pang that righted him a
bit. His face was sadder to that haggard despair because its natural expression was as sunny as any
ever I've seen in this vale of tears ever T've seen in this vale of tears
So I watched that suddenly old, sad face, wishing that 1 had a morsel by way of comfort for him, and know-
ing all the time that what he needed, if he was going to come into port
on his legs, was a bracer, and still a on his legs, was a bracer, and
bracer, and again a bracer.

$$
\begin{aligned}
& \text { " Wake up !"' I called. } \\
& \text { you answer a man's question }
\end{aligned}
$$

you answer a man's question?", "an' Deliberately he lifted his head that
had been bowed on his hands, and had been bowed on his hands, and
his blue eyes still condoned me and his ignarant offenses of speech and manner. He smiled at me kindly,
pathetically. pathetically. "Jim-Cap'n Turbine," said he, "I've had too much latchkey, firs'
an' las', un'stan'? I say," he rean' las', un'stan'? I say," he re-
peated impressively, pointing his finger at me-" do you un'erstan'
that remark ?"
He He had taken command of the
whole situation with his fixed gaze and uplifted finger, and I thought it best to let him stay on top and get
interested if he could. "Yes, sir," I replied meekly, " I
understand."
"I "I had two frien's-always with
me-us three-always together-we three-same size as me-same age as I-fine boys-great boys, Dick an
Charlie-an' they're dead, Jim. So young, both of 'em, all of us-an'
they're gone, Jim-Too much latchkey at Swallow 'em ?" I asked, looking at him eagerly, with open mouth.
He shook his head, smiling sickly,
but the necessity of superintending my ignorance on toward some light kept him awake, and he straightened "Let me , xplain to you, Jim,",
said he, renewing his solemn (". When I was a little shaver, my father said to me, 'Rob, when you're
sixteen years old you shall have sixteen years old you shall have
latchkey too,' he said. Latchkey-
son of millionaire-New York City-means-hic-pretly good time. Not
swallowin' latchkey, no, Jim-but havin' pretty good time.""
" Couldn't you 'a' used it decent?",
"I could, Jim," said my informer, -very fine sea-view sceuntry, Cap'n

- "I could, Jim,", said my informer,
said be, humping himself down in ion, ". but I didn't." monitory fashcomplete oblivion of the ocean I knew his story already. I was
sublimities spread wide before him- not taking him off his guard, but I's but New York's a great place too,
Cap'n Turbine-great place, New York." "
"Ou wish you were back there
right now, don't you ?" I called to right now, don't you ?"' I called to
him cheerfully, for after all there was
something pretty hrave about him. fidingly, reaching, out his hand to
me. I do, Cap'n." He seemed to be thinking of laying
himself by for a prolonged nap, so I
tried a bracer of a question on him. I didn't want, just for his own
sake, to bring him into port like so ". say, are you a specimen of New
York young men generally?", T
shouted at him through the wind.
"Hear what I say?", Hiar what Intay ? like the eyes of
His eyes glinted, lo condones ill-be
gentleman who
havior from one naturally boorish "I am not," he said.
"Still," said I, shouting another
bracer at him, "I guess you had company enough so as you didn't
get lonesome. eh ?"
He ignored me for the thoughts of
the past that swept over him. They


## LARGEST KIND OF PIANO \& ORGAN BARGAINS

Readers of the Advocate are rarely, indeed, made such offers as the bargains "usted "" instrumente, but they all have been thoroughly overhauled. Each one is in excellent conditionguaranteed for five yerrs. Sto
accompany each instrument.

FREIGHT PREPAID
in Ontario, and special freight allow
anoes for placoes outside of Ontario.
MAKE A 8ECOND
as well as a first ohoioe. Order by number. If not as advertised, in-
strument may be returned at our expense and money refunded. Further particulars on request.

PIANOB:

1. A square piano, 7t octaves, rose-
wood case, heavily carved. This Wood case, heavily carved. This
instrument bas a splendid tone. Cost
when new $\$ 575$. Bale price.. $\$ 128$ instrument bas a splendid tone. Cost
when new $\$ 575$. Bale prioe.. $\$ 128$ 2. A A-octave, upright, rosewood

piano, 4 feet 2 inches high, fully | guaranteed. Regular price $\$ 800$ |
| :--- |
| Sale price.............$~$ |
| 180 | 3. Haines Bros. upright piano

(Oabinet Grand) reser (Oabinet Grand), rosewood oase, ${ }^{73}$
ootaves, 4 feet 9 inohes high. Three panels, the centre panel swings for
 4. "Lansdowne '" upright piano, inches high. Three panels, the contre panel swings for musio
desk desk. Manufaotured by ourselves. 5 - Ho . $\$ 200$ English quartered out ouk ${ }^{\text {5. }}$ p taves, 4 feet 7 inches high. Full swing music desk, carved panels, Boston fall, modern dosign. Regu-
lar \$375. Sale price....... $\$ 22$. 6. Martin-Orme upright piano inches high. Full swing musio desk Boston fall. Modern design. Regu-
lar $\$ 350$. Sale prioe....... $\$ 245$ 7. Norazeimer upright pian taves, full swing music dest taves, full swing music desk. This year. Regular price $\$ 400$. Sale
price
R ORGANS:
Sherlock-Manning Gold $\mathbf{M e d a l}$
Organ, 6 octaves, walnut Organ, 6 octaves, walnut, piano case,
slightly shop-worn. Regular price,
$\$ 125$. Sale price. . Also Bell, Karn and Dominion
Organs,
5 Terms: Payabl stallments, without interest. First installment cash. Balance payable quarterly. Ten per cent. reduction
for spot cash.

## Nordheimer's

 Limited.LONDON, ONT


RENNIE'S "GEM GARDE
COLIECTION OF
VEGETABLE SEEDS




| sh |
| :--- |
| sh |
| sto |
| sto |
| ato |
| lp |

$\$ 2.50$ worth of Seeds for $\$ 1.00$
WM. RENNIE CO., Limited, SEEDS

beautiful room uhere you lay star-
ing for a minute straight at the
ceiling, with your heart broken, and
no wond no wonder, poor heart broken, and
right agation your youre all
rig fellow as ave, and as fine built
and
 But soy, that was est man's boat.
you had back there in your room trown you had back there in your brown-
stone house siou had that room
frescoed to suit yourself peacheomd rrescoed to suit yourself, peaches and
grapevines, and bunches o'
brapes and baskets o, grapes a, bachanalian
figgers fiyin all around the walls
ann ceill " "How in thunder, you clodhopscorn. "do you know any in angry
sithing about, frescoes an' bacchanalian fig.
ures
he wanted was a pig sty ! Such a
generous, patient, fine fellow-a gentgenerous, patient, fine fellow-a gent-
leman. 'What wouldn't I give if I
could ' $a$ ' had his training? Lord, could 'a had his training ? Lord, it all away.

I was feeling what I said pretty deep, and I set my face to the helm. Rob was silent for some minutes. I was awake and studying me.
"Cay'n-" he cleared his throat
Well?"
" Any fellow that says you're not
gentleman 'll get the size o' my
fist. But look here, Cap'n.," ${ }^{\circ}$
' Well ?.'
"I guess a a gentleman ?" wouldn'
Don't you think, the wouldn't tell
ditry trick, when I was packed of here?" he snorted. "I call it wild
and cold as hell!". "Call it what you like," I chal-
lenged him. "I'm going on
my story.
mith
mim a wizard.
You didn't know that? Well, you listen.
This fine fellow in this beautiful
room, he touches a button
head of his bed, and a man-servant
comes in, and he send him for the
cared for his father and mother, has
grown grown to be one of the most famous
medical men in that big city in the world for that matter, and he takes a special interest in this young fel-
low, by reason of having known and
loved his father; and he works over him and stands by him, giving him the most patient, skillful medical aid
in the land for weeks together, until
this young fellow can walk again Is there anything familiar in this
narration narration
"If you weren't such a boor, I'd
knock you down,", said he, notrils
quivering and eyes a-glowing blacks quivering and eyes a-glowing black
by this time. "People that know
anything-don, anything-don't deal in personali-
ties."
"I'm nothin' but a fly-away wizard of the north." I responded.
"Just hear me. This young fellow
" could walk again. But this good
doctor says to him, 'Rob-whisky and brandy and rum and champagne
and cigarettes have got to be drop-
ped,' says he, 'and you're young,
'only twenty-five, your constitution
'll bring you out of this for good
and all. But, go back to whisky
and brandy and rum and champagne
and cigarettes, the way you been a-
doin', says he, and you'll get
former
foundered again, and next time,
neither I nor any other doctor 'll be
able to bring you out of it,' says
he. Now, Mr. Hilton, did I hear

## that doctor s warnin aright as ${ }^{\text {a }}$, went flyin' past on my broomstick ,", " D $)$ n you !", says Rob gritting

his teeth, "if you weren't a hairy
wild man that never smelled civiliza-
tion- "You pause on interruptin' me,"
I roared, "or I'll wipe the deck with

loud. There was nohody but Rop man again physically and morally,
and the sea to hear. "Oh, no, he his worldy fortune would be waiting
didn't
a day or two. then he went at it terregnum in his spendthrift pleas-

"'You seem to know everything.
Why didn' they send me 'broad again like a Christian, 'stead o' up here to
the end o' Nowhere?" More bracing for labor here."
"How'd they come to know o' this
glash-glashial resort ?"

## Fruit Trees

 80. EachGuaranteed true to name, healthy, hrifty, olean. Plants, Bulbs, Shrubs. targe atook Strawberry, Raspberry, Currant planticherent raspaERry
yielded Dom. Gov. Farm, Ottawa, 10,250 uarts per acre; 12 plants, 50 bozes ;
ouble cropper any other. Don't take our ootd, see Cow, Bulletin 56 . We own inroducer's whole stoot, best, purest; 750. a It's mighity poor business to hyy a thing noywhere before seeinos our list: saves you haif. Tolls you how to grow blighit-resi8
potatoes. Method endorsed by oxperts.
Worth 81.00 , but it's free. Send for it now
RIVERVIEW MURSERY CO. BOX F.A.



 Partios haling oood puro bred pontry and cavertiding oolumns.
Cor loes than 30 cente.
$\mathrm{B}^{\text {UFF }}$ Orpinglons only. Ohotoo ghaliv. Mes

 BUFF Leghorns ; ninetien laid forty-one B doneo. Docomber-Jangerty, One dollar B UFF ORPINGTONS - Pure-bred-EESE, 91 CANADA SBEST-White Wyandootee Woin C every 11t, prise, Groat Dominion Mzhibition.

D UGKB-Indian Ranners-Duoke, tweaty-IVe



 R. Morman, Wales




 Prigh. On per 13, or \$8 per 40. W C. stearer.


$\mathrm{F}^{\mathrm{O}} \mathrm{OR}$ SALIM-One Faverolle eock, three henet GTEN ARM White Plymouth Rooks. Cane.



COMABER Ponltry Yarde ofort of from form



 PEACOGROVE FARM-Eggs from Buff Or.






 Houdans and White Wyandottes We won



GREAT AUCTION SALE!






 WM. SMITH, A. QUINN. Seoretary,

Presldent
ee. Bleher, Auctionear

## GOSSIP

hiskerord and shorthory
3r. J. A. Govenlock. Forest, Ont., an
nounces in our advertising columns this
week , that he will sell. at auc
week that he will sell, at auc
tion, on May 13th, his entire herd of 4 a head of high-class Hereford cattle, in cluding the animals composing his cham
pion show herd, winnors of the firs sweepstakee herd prizes at the Canadia National, Toronto, and the Western Fair
London. in 1907 Six young bull London, in to sive to sixteen months, are in with calves at foot, several imported, an heifers of show yard calibre. Ten hea
of Shorthorns of a usefill sort are als in Shorthorns

Attention is called to the change the place of holding the dispersion, sne
of the Shorthorn herd of Mr. F. Gardner. Britannia, and 20 head fron the herd of S. J. Pearson. Son \& "Co
Veadowvale, Ont., on $\Delta$ prii sth. to the snow blockade this sale was pos poned from March 3rd, nothing being sol on that day. All the animals in
catalogue will be sold on April sth;
 Plisesant view Stock Farm of Mr. Wm
B. Gardner, one mile east of Meadow al B. Gardner, one mile east of Meadowval
Sitation (C.
P.
R.).), three miles froun


## FOR SALE

By Public Auction
Franklin House, MARKHAM VILLAGE, Thursday, APRIL 9th,

Fashionably bred Imported Stal ion, Hopewell (11375) (3377). Full brother to Hiawatha, cham pion horse of Scotland. Hopewel spock has talion Shizes, also at East Spring Stallion show, also at cast
Y ork Agricultural
Exhibition Bowmanville, and Scarboro Fair: He has proved a sure stock getter:
Must be sold No reserve. Terms cas
East York Clydesdale Ass'n, MARKHAM, ONT.

| R.C. TEFFT, |
| :---: |
| Sec. Treas. |

Manager.
had a classmate that was the daughter
of this doctor o' yours.
She set the world and all by Mary, got her to go home with her vacations. So the
doctor got acruainted with her, too and that's how, he arranged for you
to rent some o the Stingaree farm to rent some o ot the stingaree farm
so as you could earn your living.",
Roh leaned over and laughed feebly, "Jim," said, he, "how $c^{\prime} n$ you
keep your ol' hearse of a face keep your ol hearse of a face
straight? That's what sprises me The wor wom anen merely players. They have their ex-hic-exi's an' theirBlame 'em!"' he suddenly cried out-
" they might $t$ ' least 'a' sent my man along with me,
 ieed one Yevil to do that. You worn't
like the

 regular picture oo them old Norsemen
rve read about, come down in a


 A'mighty.
 body, by Casar! Say, don't turn
ship allout now, and run beore the
 you're a long sight too brave. Drive
her on. Mee the swell meet the
breakers., Mrive her on to port. " Jim," s

## Current Events.

A resolution has been passed by
vitizens of Montreal asking for direct -onnection of that city with the The first legislation relating to old-
age pensions in America has been introduced into the Nova Scotia Levis-
lature. The bill aims primarily at the benefit of colliery workers.

*     *         * American Canning Company,
The
 hands, at some point in Canada. Hindus in Mancouver have cablech a
protest to Mr. John Morle, Secre
tros.


 fioner to British C'olumbia to inumin
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
the farmer's advocate


5943 Lonse Fitting
Cust, 34 to 42 bust. Suitable
for
soutache.
May


Dress, 8 to 14 searl.

The above patterns will be sent to any
subscriber at the very low price of ten
cents per pattern. Order by number and e sure to give waist and bust ner, and sure to give waist and bust measure-
ment. Allow from one to two weeks in
hich to fill order. Address : "Fashion Department," "The armer's Advocate," London, Ont.
(Note.-Where two numbers appear, Attention is called to the advertisement in this issue, of the third annual sale of
Shorthorns. (Clydesdales, and Yorkshires, and take Mare at Myrtle, Ont. (C. P. R.
and (: T.), on April 17th, when 20
borthorn bulls. Shorthorn bulls, cows and heifers, and a
number of Clydestale mares and fillis's the auspices of the Myrtle be sold Assonder Assol
tion and the Provincial sales arrangethe auspuces of the Myrtle Sales Associa-
tion and the Provincial sales arrange-
ment: pure-bred stock being shipped at ment: pure-hred stock being shipped at
rediuced rates. Short horn cattle. horses March abth Cotswold
sheo. belongine to M. W. A. Bagshaw,
(x)eridge. Ont... attracted a large atTxbridge. Ont.. attracted a large at-
tendance. Thengh the cattle were in only monlerate condition, and no high
prices wero realized, yet the result was,
on the whule , init, suticfactory the sale fin the whore, quit. satisfactory, the sale
figuring "p, to more than $\$ 4,000$, the
sheep selling. for ahout $\$ 1,000$. The highest pricice for shout $\$ 1,000$. The


APRIL 2, 1968
QUESTIONS AND ANSWERS Veterinary

DEAD FETUSES Sow farrowed eleven pigs at full term. Two were alive, and nine dead. Some wif different sizes. What caused this? Was it the food? Ans.-The death of the fetuses was not caused by the food. She doubtless received an injury in some way, which died at different INDOLENT SORE-VETERINARY There is a perge that will not heal on my horse. 2. Where can I get a good doctor O. B.
Ans.-1. Ans.-1. Dress, once daily, for three
or four days, with butter of antimony,
applied with a feather. Then keep clean applied with a feather. Then keep clean,
and dress, three times daily, with carbolic acid, 1 part; water, 20 parts.
2. You do not mention the class of
Yock you require a work on. Write J. stock you require a work on. Write J.
A. Carveth \& Co., 413 Parliament St.,
C. Toronto, Ont.. and they will send you a
catalogue of the different works veterinary science, with prices, and you LAME HORSE Gelding that will be three years old
soon, and that has been working oil winsoon, and that has been working all win-
ters went lame in right hind leg two
weeks ago, but was better next morning Four days ago he went very lame again.
I gave him two days' rest, and gave hiul two days' rest, and he was
considerably better. I worked him again,
and he got worse. and he got worse. I can find no swell.
ing or soreness. When standing over in
. the stall to the right, he is not very
lame; but when standing over to the eft, he limps very much. over J. R. Ans. -1 would advise you to send for
your veterinarian to locate the lameness as my diagnosis may not be correct.
am of the opinion he is lame in the hock. and would recommend a blister and rest

Make a blister of 2 drams each biniodide | of mercury and cantharides, mixed with |
| :--- |
| 2 ounces vaseline. Clip the hair oft the | 2 ountes vaseline. Clip the hair off the

front of the hock. Tie so that he cannot bite the parts. Rub well with the
blister daily for two days, and third day, wash off and apply sweet oil every day. When the scale come off,
if necessary, blister again. VACCINATION FOR BLACK-LEG 1. Can I vaccinate some heifers as a where can I procure the vaccine? 2. Horse, now eighteen months old, has
always been subject to colic. Lately, he
does does not recover as quickly as he used
to, and it is impossible to keep his
bowels bowels moving freely. How can I pre-
vent the attacks, and how shall I treat him when he is attecked, and how cal
I keep) the bowels open? B. M. C. Ans. - 1. A careful man, who under
stands how to use a hypotermic syringe
inorulate. Write


 Minuid, and some in tablet form. The 2. The designed has the purpose heak digestive of
has attack


The Social Side of the Telephone
Is well worth considering.
The roads may be too bad to take out the horgeo or
you may not fee ilike bioig for a long rive. Yet you want to know how giok friende are goting alon - what
the nows of the neighorhood. g-or porhape arrange about planting, harresting, marketing,
the dozens of dutios that busy the farmer.

Canadian Independent Telephones owned and ooerated by you and your frlends, bring the
ontire neighbornood within easy talling distance. Especially in the ovenings- when the das's work is done
-the social side of the telephone is one of its greatest Jnst thint to of the driving it saves-what a help in case of acoidents and serious illness-how quick hy jou
can call lor assistanoe in every emergenoy. Our bookleta explain aboot Canadian Independen y bo installed so as to give the beet berrioo at athit priog, ind ependedently of the trast.
Writo for full inform
Canadian Independent
Telephone Co. umme
26 DUNCAN ST., TORONTO, ONI.


Selected Seed Potatoes
WE OFFER THE FOLLOWING VARIETIES:
New Noroton Beauty - Txtra early; the best all-round variety in orist. tarly early. The Planet-White, grand maln Six WToekis-Ro: en ine extra, early Bryee-White, splendid extre errly. 1 F . 15 ; 5 lbs ., 650 ., postpald ; by Pride of Aroostook-White, early,
 Pride of
splendid.
Rroostook-White, early bush. 81.95: bac 81,85, here.

Gold Coln-White, main crop, very fine
Sir wiw Raleth-White, main erop,
JOHN A. BRUCE \& CO.,


## Established 1850

HAMILTON, ONT.


NOTICE TO READERS! When writing advertisers kindly men= tion "The Farmer's Advocate."

RE ALFALFA ON SOD. How would alfalfa do on old sod plowed this spring? It is the best
drained piece of land I have. Ans,- It would very likely soon be choked out by grass. Put the field in corn or other hoe crop, and cultivate so
thor sughly until August that not a apear of grass is left. Next spring sow the allalfa.


YOU WANT ${ }^{\text {a }}$ a hatober that doos not require watahing; THE MODEL roller in the world -strong, yet active, sensitive, Tet positive-perfect in action.
The Patent Offor the interference suit on this perfect-acting regulator The Model Corrugated Leaf Compound Thermostat


This Thermostat has three oc rrugations in each damaged, and is so positive in action is that the entire movement given off by the dransmitted to the controlling device withou two metals of which it is made is The Model Incubator gives a perfect heat control, which stimulates and holds the germ development uniformly constant and normal, as under a hen. and supplies all the vitalizing principles found under the incubating hen. The
and.ty, Model Incubators and Brooders are used on the biggest money-makling commer cial poultry plants in the world. The Model Double Indoor Erooder is just what you want for winter work. Broiler men pronounce it the most suceessful rearer
yet produced At the Model Farm, where we raised over 80 opo birds the yet produced At the Model Farm, where we raised over 80,000 birds the past
geasoon, the Model Double Indoor Brooder did the best winter work. Buy your incubators and brooders of the man who knows bow to hatch and raise poultry, who is doing it successfully on a commercial basis, and who can help you to be
sucoessful. Your success is my success. Write for my printed mater successful. Your success is my succoss. Write for my printed matter than the whole of our competitors combined. We make this statement in boasting spirit, but simply stating facts-a word to the wise is sufficient. College, Truro, N. S.; Macdonald Institute, Ste. Anne de Belleville, Que. Government Experimental Stations, Bowmanville, Ont.; Benderille,
Bondville, Que.; Andover, N. B.; Chicoutimi, Que.; Union River Bridge, P. E. I.; Experimental

CHAS. A. CYPHERS,
DANIELS,Mgr.
noubator company, Limited,
River Ste, Toronto, Ont., Canada.


Fruit and Ornamental Trees,
Roses, Bhmubs, Evergmeens, Small Frult Plants, oto.

 Bver-blooman ortinem mbition firs papin.


Stump and Tree Pullers We are the only man matactarer. in




Canadian Swensons, Ltd.,

QUESTIOHS AND ANSWERS Miscellaneous.

BREEDING ABORTING MAREONCRETE BLOCKS FOR
barN Wale.

1. Will it be of any use breeding a mare that slipped her foal, being her
first time ? 2. Are cement blocks better for a base ment of barn than solid concrete?
so, why?
A SUBSCRIBER. Ans.-1. It will probably be safe to breed her again, but we would advise delaying breeding her till she has been on grass for some time in order that her
blood may be cooled and her system re stored to natural conditions. She wil be surer to conceive, and more likely to carry to full time for such treatment. 2. Better in some ways, though no
uite so strong. The advantage of blocks consists in the fact that, having dead-air spaces within, the wall is a better non-conductor of heat, i. e., it will
not chill through so quickly; hence the oot chill through so quickly; hence the so readily lost through the wall by con-
duction, and with a given degree of venduction, and with a given degree of ven
tilation the stable will be warmer; or another way of stating the case is that unduly lowering the stable temperature consequently the air will be purer and blabicat.
DIVARICATED BUPRESTIS LICE - HOMI N G P-WIGEONS WANTED.
2. What is the name and the habits of
the specimen enclosed?
3. What salary do the Northwest 2. What salary do the Northwest
Mounted Police recelve ?
4. Where can I Mounted Porice recelve?
5. Where can I purchase Homer
pigeons ? pigeons ?
Ans. -1 . The insect came badly broke in the mail. Its bronzy color and the
shape of an unbroken wing-cover indicate the divaricated buprestis (Dicerca divari-
cata). This is a beetle that deposits its cata). This is a beetle that deposits its
eggs in cultivated and wild cherry, and, eggs in cultivated and wild cherry, and,
more rarely, on peach. The larva is a more rarely, on peach. The larva is a
flat-headed borer, quite similer to the
appletree ber apple-tree borer. It lives under the bark
upon the young sap-wood. upon the young sap-wood. $\mathrm{J} . \mathrm{D}$.
6. The Comptroller of the Royal 2. The Comptroller of the Royal
Northwest Mounted Police informs us
that the pay of the various ranks as that the pay of the various ranks, as
authorized by the Mounted Police Act,
chapter 91 , chapter 91, of the Revised Statutes of
1906, is as follows:
Commissioner exceeding $\$ 3,000$ per annum; each assistant commissioner, not exceeding
$\$ 2,000$ per annum; each superinter $\$ 2,000$ per annum; each superintendent,
not exceeding $\$ 1,800$ per annum. not exceeding $\$ 1,890$ per annum; each
inspector, not exceeding $\$ 1,400$ per an nuspctor, not exceeding $\$ 1,400$ per an-
num each surgeon or assistant sur-
geon, not exceeding $\$ 1,800$ per annum;
each veterinary each veterinary surgeon, not exceeding
$\$ 1,400$ per annum ; four staff sergeants. $\$ 1,40$ per annum; four staff sergeants,
not exceeding $\$ 2$ per diem; other staff
sergeants, not exceeding $\$ 1.75$ per diem; sergeants, not exceeding $\$ 1.75$ per diem;
other non-commissioned officers, not ex-
ceeding $\$ 125$, ceeding $\$ 1.25$ per diem; constables, not
exceeding $\$ 1$ per diem; special con-
stables and scouts, not exceeding $\$ 1.50$ stables and scouts, not exceeding $\$ 1.50$
per diem; buglers, under eighteen years of age, 50 c . per diem.
7. Advertisers take notice. COLOR OF EGGS-SHEEP RACK 1. Should a pure-bred white Wyandotte
ay white eggs or brown eggs ?
8. Should a pure-bred White Wyandotte have a rose or single comb ?
9. Which is the best of Wyandotte 3. Which is the best of Wyandotte
varieties for all-around purposes ?
10. Would you name all the lay white eggs and all the fow that lay
brown eggs ? of white and brown eggs?
11. Also, the plan of a single-sheep rack, suitable for feeding hay and grain
at the same time, and about the cost
of
 3. White, Ruff and Silver Wyandotte
are all good breeds. Perhans the whit are all good breeds. Perhaps the Whit.
Wyandotte has the greatest call on pub
lic favor of any variety of this breed. 4. The brown-egg breeds include the
Plymouth Rocks, Wyandtes, Rhode Is.
land Reds, Brahmas, Cochins and Lang.

Leghorns, Minorcas, Blue Andalusians, Hamburgs and Houdans. Of the English breeds, Dorkings lay eggs of medium
5. It depends on the fancy of the parwhite and some brown. The some prefer is to pack only eggs of one color in each so as to present a tasty appearance in the case.
6. There are various styles of racks in use giving good satisfaction. of racks in
One is
made of two $1 \times$-inch. boards 24 inches apart with ends. boards, spaced of double inch. or matched flooring. This At the corner are legs, $2 \times 4$ stuff, 40 inches high. The vertical slats are of
$1 \times 3$-inch. stuff, and are spaced 6 it inches apart. The top of the box should be about 12 inches high. In this rack may wide openings between the slats perme the sheep to thrust their heads clear in and there they will stand quietly until
they have consumed the rep little waste. This is a cheap form of
rack the rack, the cost of which may readily be
reckoned when local prices of lumber be reckoned when local prices of lumber are
known. It is easily made, and is as effective as any

DING WOOW-EWE SHED DING WOOL-SEEDING
As a much-interested reader and sub-
scriber to your valuable ask the following questions, to be answered through your columns? remedy for a strong, healthy, well-kept sow eating her young pigs at the time of
farrowing? 2. Is there any means to prevent crows from taking away the seed corn jus after it is sown? I am told that, on my farm for years back, the crows have twice? 3. A young, healthy, well-kept ewe
keeps shedding her wool. What is the 4. I wish to seed down for maedow hay. Is there any better seeding than timothy ? If this is best, in what proportion and how many pounds of each
should I sow per acre? Ans.-1. It is supposed, in many cases, and an abnormaling constipation of the sow the remedy is feeding greasy food, or a the of raw linseed in the food to relax
thewels. In some cases, it is thought to be owing to the long, sharp nueth of the pigs irritating the sow when having, causing her to bite a pig, and,
pigs. pigs. In such case, these teeth should pe broken off by use of a small pair of
pinchers. It is thought by some that
feeding the sow a piece of becding the sow a piece of fat, salt pork
helps to satisfy her craving.
2. Taint it 2. Taint it with a smearing of coal
ar. Directions for application have reently been given in reply to other corre3. It may be caused by ticks, or by which case a solution of one of the coal-
tar dips poured ind fleece may give relief, or sulphur sifted into openings of the wool may be effec-
tual in ridding of the pest. It is thought by some that sulphur mixed
with salt and kept in a hox where the sheep can take it at will, rids the anibe carefully examined for indications of scab, which, if present, should be promptheep died with a strong solution of than 8 pounds recommend nothing betterer, 2 pounds al-
sike, and 4 to 5 pounds, of

GOSSIP.
Mr. Ira L. Howlett, Keldon, Ont.,
Shelburne Station, Ont., advertises for
te Yorkshite Yoe Yorkshire and Bit., advertises for
vounkshire swine
boars and sows, of breeding age,

Mr. Jnmes Sharp, Rockside, Ont., breedpr of Aberdepa-Angus catkside, Ont.,
tises for sale bulls, fifteen to seventeen
toonths tises for sale bulls, fifteen to seventeen
moonths old, cows in calt, and heifers, all
registereld in both the American and Ca-
nadian National herdbooks, and of
superior breering and

MAGISTRATE PRAISES ZAM-BUK.

You cannot possibly hav EPPS'S
A delicious drink and a sustaining food. Fragrant, nutritious and conomical. This excellent Cocoa maintains the system it to resis wealth, and enables it to
winter's extreme cold.

## COCOA in $\frac{1}{2}=1 \mathrm{l}$. and $\frac{1}{6}$-lb Tins.



4
Get acquainted with
Black Watch
the big black plug
chewing tobacco. A
tremendous favorite
everywhere, because of
its richness and pleasing
flavor.

THE FARMER'S ADVOCATE.
619
QUESTIONS AND ANSWERS. $\begin{aligned} & \text { sugar cane, and towards the end of the } \\ & \text { season the clover furnishes a good deal of }\end{aligned}$
QUESTIONS AND ANSWERS.
Miscellaneous.
PREPARING PASTURE LAND
FOR ALFALFA.
I have a large hill of fairly I have a large hill of fairly good clay t
land, that has been pastured for ten
si
years, that I would Alo to get seded
with alfalfa for hay. I w will be unable Would it be possible to get a catch the
Oollowing spring, or would I have to ake a crop off, say peas, the first year,
and then try for the alfalfa the next
pring ? Ans,--Perhaps the worst enemy of al-
falfa is hlue grass, hence land intended for it should be so treated as to clean
this out thoroughly. Peas would help
to subdue it, especially if the stubble
were thoroughly cultivated atiterwards,
but a hoe crop is much better. Corn but a hoe crop is much better. Corn,
planted in hills, and cultivated both
ways, is best.

## 1. "The Farmer's Advocate" has ouraged me to try a small piece o oalfa, and if it proves a success

sure I will be well repaid for my muney.
My field is sharp soil and high broxen
out of clover sod a year ago last fall,
and planted to corn and roots. Now, nd planted to corn and roots.
s. this suitable to alfalfa? ?
2. What is right time to sow? 3. How much seed per acre?
4. Can it be cut for crop first year
sown without nurse crop?

## 5. Would it be better to sow light nurse crop, and pasture light after harvest? A YOUNG FARMER.


prove quite suitable. A load of un-
leached wood ashes per acre would al-


DRAINAGE WITH SLI FALL - SUMMERTURE.

curea. by digging a deeper trench to-
creased
Ward the outlet end. In any case, the
work of surveying and laying the tile Work of surveying and laying the tile
should be performed with the utmost
cole care, and snug. If there is quicksand,
even and
some straw, or grass, or turfs should be used to protect them. For help andrams, write Prof. W. H. Day, Department of
Physics, O. A. C., Guelph. The only expense en himself, or assistant, from
expenses of himplant, and
Cuelph to the address of applicant, Guelph to the address of apptcer to bear
several farmers may club together the use of sevir. Drilling wells, or the use or,
this.
windmills to raise the drainage water,
$\qquad$
$\qquad$
$\qquad$
$\qquad$



## .

nome

$$
\begin{aligned}
& \text { Ans. }- \text {. It should be clearly under- } \\
& \text { stood that the particular nitro-culture } \\
& \text { used for red clover is an entirely difierent }
\end{aligned}
$$

used for red clover is an entirely different
species from that used for alfalfa. The
is, so far as we are aware, quite as bene-
ficial to this crop as the nitro-culture
recommended for allalfa is beneficial to
it, except that as red clover is so com-
monly grown throughout the country
there are few farms not more or less
abundantly inoculated with the red clover
bacteria, hence artificial inoculation is
bacteria, hence artificial inoculation is
much less likely to be required. On a
farm, and in a vicinity where red clover
had never grown, treatment of the seed
with nitro-culture might be expected to Nith nitro-culture might be expected to
prove quite as beneficial to it as to al2. Jerusalem artichokes are recom-
mended by many as an excellent. feed for mended by many as an excellent feed for
hogs, being more especially suitable for hogs, being more espocial Thutubie
rather light, sandy soils. The tubers may rather light, sandy sols. The tubers may
be planted in late fall or early spring, in rows, two or three feet apart, spaced a
foot or eighteen inches in the rows. In fort or eighteen inches in the rows. In
planting, cut the same as potatoes, one eye to a piece. Plant as potatoes, end
cover about two inches deep. The crop, if planted early, should ready to feed
by the middle of September, the hogs be by the middie of September, the hogs be-
ing turned in to help themselves. Frost
doas not injure artichokes does not injure artichokes, and usually
enough tubers are left in the ground to enough tubers are left in the ground to
insure a crop the following season. To eradicate, turn hogs on in the spring,
and plant the plot to turnips, or some and plant the plot to turnips, or some other hoe crop. Artichokes have a
rather higher feding value than potatoes, and hogs are very fond of them.
While it might be well to port of While it might be well to plant part of
this plot to artichokes, we surmise that this plot to artichokes, we surmise that
some other crop, which would give passome other crop, which would give pas
ture throughout the summer, is desined Try alfalfa on hale of it, cultivating
thoroughly, ind sowing at the rate of 25 pounds. seed per acre. It would, o
course, be a much better preparation for the alfalfa to break the sod this spring

## Makes Friends.

## Best Stock Food Now Mixed

When we first printed the formula fo mixing a dependable stock food at home we believed then to bery mail brings us som
and, when erd
word word of appreciation, we know that th
farmer und stockman has at last solve farmer und stockman has at last solved
the stock-food problem that is costing the stock-food problem that is costing
thousands of dollars annually. As one stockman writes: "I have been
wanting to make my own stock food for some time, and I lound Barnes' English Compound just what I wanted. I have used stock food for years, and find $I$ get By request we are reprinting the formula Six pounds corn meal; three pounds lin-
seed meal. (seampound. one pound Barnes' English In reply to several incuiries, woul
say that Barnes'
 Amsden, Box B68, Windsor, Ont... wh
will send a full-sized packago, sufficient to mood.

$$
B
$$

CURES Dyspepain, Bolte, Pimplos, Hoadaches,
Constipation, Constipation,
Loss of Appetite,
Salt Rheum, Salt Rheum,
Erysipelas, Erysipelas
Serofula, Serofula,
and all troubles andsing from the ardsing from the
Stomach, Liver,
Bowels or Blood.

虽 Matikiti Maptiditic

Holds Cattle Prisoners Your fiercest bull, your most strenuous rooting-sow, your smallest and
most cunning little piggy, will "stay put" where you want them when your put" where you want them when your
place the new London Woven Fence pace therd.
The strongest woven fence on the
market is the London. The same extra market is the London. The same extra
high grade of steel, with the same
 enormous surplus strength and extra-
ordinary elasticity, as has made Lon-
don don Coiled Wire the talk of the coun-
try. Wires and locks all No. 9. Heavitry. kind of gacvanizing. A. vastly
improved lock-holds wires as solidly as if in grip of a vise.
 unch an opportunity to show you are wide-awale
and kno bobst fence valuo-which is London
Woven Pences. LONDON FENCE MACHINE CO
 don - On AGENTS in unrepre-
sented disin unrepre-
sented dis
tricts.
 H: MORE GOOO CIIER :U世O
 $=5=2$ and


PERFECTION
Seed and Gmain Sepapaton HThin latest and beot deovieo for oleanivg And





ACrmd Car do The Family Wase


Reacting

## Washing Machine

The improved Rolier
cear - an exclusive
con


Bearings, en
 ${ }^{\text {mashing. Gear }}$ there sp no
chance of ohidd. ren getting if
gers injured.


Churning Made Easy "Favorite" Churn is worked by hand, on foot, or both. Roller Bearings ment quick, easy churning. Built for strength. 8 sizes gallous of cream. gallous of cream. Write Write for booklet of These "Household Neces-
tities" if your dealer

QUESTIONS AND ANSWERS Miscellaneous

INDICATION OF APPROACHING PARTURITION-AGE FOR SERVICE.
ing the time of parturition of determin within twenty-four hours of foaling? 2. Young boar pig, six months old, re tains water in sheath or skin around of the opening through which he urinates, hut two or three tablespoonfuls remain healthy, grows well. good appetite. Wil this interfere with service?
3. What is the minimum age for boar to serve a few sows ? R. M. Ans-1. The opinion prevails, and it is ends of the reats is tion that the mare will foal within iwo hours; ther tion, and we do not tnow or and
rule.
2.
2. Yes we believe, as a rule, it does though there may be exceptions.
3. We should say six months, though
much depends upon the growth and de velopment of the pig. As a rule, it is
considered safer not onsidered safer not to use the boar til
he is seven or eight months old. potato scab.
If you know anything more about farming than I do, I will be pleased to
hear from you. One-half my ground is poor; the other half is rich; all cultivated the same, and kept clean. Potatoes
grow fine, healthy tops, but the tubers are scabby, on poor and rich soil alike, I have used lime and salt. No better but worse. Beets, cabbage and other
vegetables. remedy to allow me to keep on cropping my garden ? A SUBSCRIBER.
Ans.-Notwithstanding the little degree in his counsellors, we can readily tell him the cause of his trouble. It is a
familiar fungus disease called potato familiar fungus disease called potato scab,
which also affects beets, mangels, turnips,
$\begin{aligned} & \text { rutabagas, cabbages, carrots and } \\ & \text { possibly }\end{aligned}$
radishes
rand
sallsify. spreads by meañs of spores, which are
either in the ground when in the ground, or on the tuber
When the soil is made alkaline, as by the application of fresh
manure. lime or ashes, the conditions are manure. lime or ashes, the conditions are
more favorable for its development. On more favorable for its development. O
the other hand, superphosphate, am
monia sulphate, kainite, sulphate the other hand, superphosphate, am
monia sulphate, kainite, sulphate o
potash and muriate of potash have th potash and muriate of potash have the
opposite effect. The disease may remain active in the soil for a long time-five or
six years, at least-and is very difficult
to eradicate. is eradicate. A long rotation of crops
is advisable. When the disease is bad, it is recommended to plow under a green
crop just before the potato crop. This
will tend to make the land slightly sour
or and or acid. Good results have been ob-
tained by the successive plowing under tained by the successive plowing under
of green crops for a number of years on
badly-infested land. We would not adof green crops for a number of years on
badly-infested land. We would not ad-
vise growing potatoes on this land this year, but, if it must be done, use as a
fertilizer: 120 pounds (per acre) sulphate
of ammonia, 300 pounds acid phosphate
and 150 pounds sulphate of potash For and 150 pounds sulphate of potash. For
instructions re use and application of
fertilizers, see back numbers of .". The
Farmer's Advocate." particularly

Unreserved Dispersion Sale THE RATHBUN COMPANY will offer for sale at
public auction at their farms, DESERONTO, ONT., on public auctinn at their farms, DESERONT, ONT: on

## 100 Head Holstein Cattle

Pure-bred and high-grade. Average yield of herd for 1907 was $8,006 \mathrm{lbs}$. per con 142 Breeding Ewes with Lambs. 4 Pure-bred Berkshire Swine. 14 High-grade York. and Berk. Sows. 5 High-class Young Horses. All Bay of Quinte trains stop at farm.
Terme: Cash, unless otherwise arranged for before sale.
actioneers: geo. Jackson, Port Perry ; E. s. Lapum, Napanee ; C. Grier, Napanee For catalogues and further information, apply to
A. LEITCH, Farms Supt., Deseronto.

## Simmers' Seeds

## F YOU have never planted them, try them this year. They

 never disappoint; they grow; they yield. You are always sure of freshness, purity and reliability. For this reason thousands of farmers, gardeners and planters in Canada plant SImmers' Seeds exclusively.Our 1908 Catalogue contains many suggestions and directions, the result of over fifty years' experience in the seed business. Write for it to-day. It is Free.

## J. A. SIMMERS,

Seeds, Bulbs, Plants.
TORONTO, ONT.

## POTASH SPELLS PROFIT

$A_{\text {LL orops require a liberal supply of potash for their successful develop- }}^{\text {Lent. }}$ A $\begin{gathered}\text { ment. Potash promotes maturity and enables the farmer, fruit- } \\ \text { grower market gardener to get his produce on the market while the }\end{gathered}$ high prices are ruling.

The use of potash means larger and earlier crops of the best possible quality.
Potash may now be obtained in the highly-concentrated forms of
MURIATE OF POTASH and SULPHATE OF POTASH
from all leading fertilizer dealers, and ought to be applied along with a phos-
phatic fertilizer early in spring. A bulletin, giving the results of a large number of fertilizer experiments conducted throughout the Dominion during 1907, may be obtained gratis on
application to

The Dominion Agricultural Offices of the Potash Syndicate
Rooms 1102-1105, Temple Building,
TORONTO, GANADA.


## When Writing Advertisers <br> Please Mention this Paper.



THE FARMER'S ADVOCATE writes: . I have made several good sales
of Shorthorns recently, but have four andsome young bulls for sale yet. The
dams, grandams and great-grandams of two of them have each given over 50
lbs. milk per diy. The bulls are shortegged, thick-fleshed fellows, of good beef
type, the kind for anyone wishing to imtype, the kind for anyone wishig the in
prove the milking qualities of their herd, as well as their favor for beef.

LAST CALL FOR GARDNER-PEAR-
SON SALE. Our readers are again reminded of the Oostponed auction sale of the entire
Shorthorn herd of Mr. F. A. Gardner, Britannia, and 20 head from the herd of
Messrs. Pearson \& Co., to be held April Messrs. Pearson \& Co., to be held April
8th, at the farm of Mr. W. B. Gandner,
near Meadowvale Station (C. P. R.). There are 13 excellent young bulls, of serviceable age, in the sale, also the im-
ported bull, Gold Mine, and 26 females,
imported and Canadian-bred, of the famported and Canadian-bred, of the fa-
vorite Scotch families, with some of excellent milking strains, and all the
progeny of imported bulls, or the sons of progeny or imported dam. The sale will
imported sire and dame
be absolute and unreserved, and the ople absolute and
portunity to secure good, stack; at the
buyer's price, is an exceptionally favorbuyer's price, is an exceptionally favor-
able one. See the advertisement in this issue.
Official records of 123 Holstein-Friesian ows were accepted by the American Hol-
 mals of all ages. of which over one-half
were heifers with first or second calves, produced in seven consecutive days $48,842.1 \mathrm{lbs}$ of milk, containing
$1,836.409$ lhs. of butter-fat; thus show-
ing ing an average of 3.35 per cemt. fat.
The average yield for each animal was 393.8 lbs. of milk, containing 18.304
lbs. of butter-fat; equivalent to 56.2 lbs. lbs. of butter-fat; equivalent to 56.2 bs.
milk, or over 25 quarts per day, and
over $15 \frac{1}{t}$ lbs. of the best commercial buter per week. In this issue of the Offcial Reports an-
other great Holstein-Friesian cow comes to the front with a great record. This
is Dichter Calamity, the leader of the full-aged cows, and the record is 25.920
lbs. fat from 681.2 lbs. milk in seven lbs. fat from 631.2 lbs. milk in seven
days, and 103.089 lbs. fat from $2,570,9$
lbs. milk in 30 days. For a large porlos. milk in 30 days. For a large por-
tion of the test, the production of this
cow was reported daily to the superin-
tendent, and the test was twice verified: tendent, and the test was twice verified
a second supervisor assisting. It will
It be noted that this cow reached her maxi-
mum the 6th week after calving, and mum the production was very even all
that the
through the test. The first verification more than sustained the production
claimed at that time: and the econd claimed at that time; and the second
showed 3.727 lbs. butter-fat for the 24 hours, or at the rate of 26.089 lbs. but-
ter-fat for one week. By her large pro-ter-fat for one week. By her large pro-
duction, Dichter Calamity gains 3rd place among H.-F. cows in
seven and thirty-day divisions.


When the Butter is streaked, you may be sure it was not

## Windsor Dairy Salt

that was used to salt it -for Windsor Salt gives an even colour.

All grocers sell
Windsor Salt.

ITh London Old Boys' Reunion and Summer Carnival. The old Boys of London and Miadelesoik will Lumer carnival.





 If the Old Boys sootlered throughout
country would oomm mulionte wilh.


MARVELLOUS FOR PIGS If you want your pirs to grow
rapidily, feed them on Molassine Mea ogularly. You will And that they develop
from throe weeks to a month earrler
 ANDREW WATsON, ot Prace DYouille

kdils lice so thoroughly and effectu-
ally that one application will most ally that one apprication will most
liikely end your trouble. Instant
Louse Killer is the formula of Dr. Louse Killer is the formula of Dr.
Hess (M.D., D.V.S.), and destroys Hess (M.D., D.V.S.), and destroys
lice on horses and cattle, tiek on
sheep, cabbage worms, rose slugs and sheep, cabbage worms, rose slugs and
bugs on melon squash and cuucumer
ond bugs on melon, squash anclucu disin-
vines. It is is also an excellent Comes in
fectant and deodrizer.
feake fectant and deodorizer. Comes in
shaker-top cans, hence easy to apply,
because you can dust it over roosts, because you can
nests and platforms in th tew moments' time. See that the word
"Instant" is on the can-none other
is genuine.
Sold on a written guarantee.
1 lb . 35e. $\quad 3$ 1bs. 85e. If your dealer cannot supply you,
send your order to us.

Manufactired by
DR. HESS \& CLARK,
Ashland, Ohio, U. S. A


QUESTIONS AND ANSWERS. Miscellaneous.
miliet.
Would be pleased to know the value of
millet as a forage crop. ${ }^{\text {Will }}$ horses do do millet as a forage crop. Will horses do
well on it $? ~$
How many tons to the acre doee it yield on an average?
have a couple of acres on which $I$ grew corn last year, having been thoroughly
cultivated all season. Soill is sandy loam. Would this be a suitable soil on which to grow millet? Any other information you can give me on millet
culture will be cheertully received culture will be cheerfully received?
Ans-Millet in all its species and
varieties may be made to furnish food for live stock in the form of grain (or seed) fodder, soiling food, or pasture. It is
most commonly grown as a fodder crop. Some of the varieties, under favorable conditions, produce enormous yields. In the experimental plots at the Ontario
Agricultural College, the larger-growing $\begin{array}{llll}\text { Agricultural } & \begin{array}{c}\text { College, } \\ \text { varieties, }\end{array} \\ \text { such } & \text { as le larger-growing } \\ \text { as }\end{array}$ Japanese Panicle and Golv Torror Gold
Mine have produced, in six years' tests, Mine have produced, in six years tests, an average of fully four tons or hay per
acre per annum, the common millet yieldarre thre-fiths of a ton less, and the Hun-
ing garian grass four-fiths of a ton less per
acre.
of the latter class, an average
ared yield, under ordinary farm conditions,
would probably be from one to two tons
wor per acre. Pror. Zavitu reports that the
Japanese Panicle is probably the most Japanese Panicle is probably the most
popular variety amongst the newer ones
 throughout ontario. 1t grows to a good
height, stands up remarkably well hod geight, stands up remarkably well, has a
good leaf development, and is relished hy stock. It is a good, prod iser relished by by
as well as a heavy yielder of todider hay. There has evidently been a great
misunderstanding among seedsme misunderstanding among seedmen, he
adds, as to the different varietios Japanese millet, for some of them in ad-
vertising J Japanese millet have illustrated one variety and described another entire-
ly different. The seed of the Japanese ly different. The seed of the Japanese
Panicle variety is of dark reddish-brown color, and very smooth and shiny, being
quite different in appearance from the quite different in appearance from the
seed of the Japanese Barnyard. seed of the Japanese Barnyard. As to
date of sowing, two years experiments
at the O. A. C. resulted in the best yields of green crop being obtained from
the Japanese Panicle millet whem sow the Japanese Panicle millet when sown
the first of June; from the Jananese the frrst of June; from the Japanes
Barnyard millet when sown about the end of June, and from the Hungarian July. Crops produced from seed sow difficult
to make hay out of the cro $y$ in the case of the Japanese Panicle variety. In general, it might be said
that June proved the best mont sat sat June proved the best month for
sowing millet. It Inkes a warm, mel
Iow seed-bed, and revels in ow seedinct, It likes a warm, mel-
revels in soil which
bas abundance of humus. Sondy soil $-x=-=$

## The Postponed Auction Sale

SCOTCH SHORTHORNS
The property of F. A. Gardner and S. J. Pearson, Son \& Co., will be held at
the farm of W. B. Gardner, one mile east ot Meadowvale Stn., on C.P.R., on
Wednesday, April 8th, 1908




 | impe. covs with |
| :---: |
| their produe, and | 20 hat drom tho

no tod hor tho
not noted herd of
Messrs. S. J. Pear-
son, Bon \& Co. will
 Also bo induluad

TERMS : Cash, or 7 months' ing. in the offernoon. Conveyances will meet all C.P. R. trains from the north. Lunch at Meadowvale Sta., and from the west at Streetsville Jct., and all G. T. R. trains III be met at Brampto
F. A. Gardner and S. J. Pearson, Son \& Co. Britannia, Ont. Meadowvale Ont


When Writing Advertisers Please Mention this Paper.
and cured so as to be faiily free from $\begin{aligned} & \text { dust. When the plant is allowed to ap- } \\ & \text { proach } \\ & \text { maturity, } \\ & \text { its } \\ & \text { fodder }\end{aligned}$ becomes woody, maturity is it fod at some hazard to to LICENSES FOR STATIONARY ENGINEERS
1 noticed a paragraph in "The Farmnew Act coming in force regarding parties running engines over 25 h --p.
having to take out licenses directed parties whom to correspond with in order to secure licenses, but the $\underset{\text { paper has gotten mislaid. W. S. F. }}{\text { Ang.-Address: }}$ Ane--Address: "'The Secretary," De-
partment of Agriculture, Toronto SALT ON FALL WHEAT. 1. Will sowing salt on fall wheat be
of any benefit or not? it so, how much Would one require to sow to the acre?
a 2. Will it do any harm to clover seed
sown this spring, as I wish to seed the
wheat to clover a A SUBSCRIBER per acre, is, in some cases, beneficial to to
spring spring grain crops, especially barley, and,
in some cases, of no
vent vome cases, of no perceptible ad-
vantage. Not being in itself a fertilizer,
but only but only a means of liberating that al-
ready in the soil, it is ordinarily ready in the soil, it is ordinarily a poor
substance in which to invest, except,
perhaps perhaps, for mangels, on which it has often a marked effect. For grain crops, better
buy wood ashes or muriate of potash and bone meal, both of which will fathorably affect the yield of wheat, increase the
vigor of the clover, and exert a fairy Vigor of the clover, and exert a fairly
lasting effect on crop production. We
should not expect much is shouk not expect much, if any, benefit
from sowing salt on fall whent 2. Applied before the seeds have ger-
minated, we do not think the salt would

PEARS AND CHERRIES.
varieties of pears and cherries, for home
use. Would you please give me the
names of names of four or five of the best vari-
ties that will extend over the greatest part of the season?
2. Will sweet chestnut grow here? Will they stand the winter grow here?
Ans.-I would recomend Ans.- - Would recommend the follow-
ing a few of the best pears and
cherries for as well as possihle from early to late:
Pears-Giffard, Bartlett, Flemish Beauty,
Pheldon, Seckell and Ane Sheldon, Seckell and Anjou. I recom-
mend the Flemish Beauty, knowing that
his variety is sery scab, but by thorough spraying pear this
disease can be held in check. Unless youl intend to spray thoroughly, Unless yould would
recontamend leaving this variety out. herries-Farly Richmond, Montmorency
Reine Hortense, and Windsor. Early Richmond and Montmorency are of the
our type, and can and hardiness and productiveness. . The other
wo are of the sweet type and are not
wearly so hardy nor so product
Te well worth Weet chastnots say definitely whether
will stand the winter in Wour chestnuts will. stand the winter in
yon or not. They are not hardy
here, and I doult whether they would he
yent and I doult whether they would be
herd
hardy with you makso noceptable horse foed

APRIL 2， 1908
－


Lame Horses





You Can secure a Self－supporting Home





 Blaits Pills $\mathrm{O}^{7}$ Bairs Piss
 traAN．iome

## CLYDESDALES

## 

## SHORTHORNS

 James mcarthur，Gobles．Ontario Aberdeen－Angus bulla，is to 17 mon thas in fowt

 For Sale－Two good suff Ik pun h stal

thos．kvagas，vandecar．ont．
C．For Sale ${ }^{- \text {Severalal Arab－bred sto }}$ Stionse

 Clydesdale Stallion（rexidtored）（5A33）Hitab
 and threo whit fret．



THE ARMER＇S ADVOCATE．

QUESTIONS and answers

to the ag
Ontario．
Ans． 1.

might
mouse．
 boar that would be ready for service at
Chrismas，
as
A had seven sows
he wanted to breed at that time B Ben
list of what they had on the 8 th of
lit Nov．A picked one of lot，four months
vid．B did not say whether he would be ready or not，but have their
stating that the pig was something to
sity be proud of，and good for 900 or 1,00
bs．at maturity．A wrote，stating that he would accept their offer，and to ship
him c．o．d．，or would send an order as oon as the pig arrived，if satisfactory， he pig until they received a cheque o
rder；satisfaction guaranteed．A sen an order for the pig．B sent card stat－ ing they had received order，but could hot ship for a few days，as it was holi
day eeason，and could not get crites
made，and on the bth of January shipped made，and on the 6th of January shipped
pig，61 Ibs．，which was no use to A Whatever at any price．A sent car
tating that he had received pig；was not ake and shipped a younger pig，but to

$\qquad$
$\qquad$
$\qquad$
$\qquad$ rress paid，satisfaction guaress．the expres．

Ans．－A is entitled to damages from H or breac Th
and
tion
Wh
Whe
led The ledger for last year is balenced
and the accounts closed，and the ques－ When is how has the year turned out？baldncing up the business
When ledger，old fellow，don＇t forget the moral
as well as the financiall loss and gain account．Where are you at as a man？
Are you less of a villain and sneak than Are you less of a villain and sneak than
you were a year ago，or do you think
still less of the man who wears your hat still less of the man who wears your hat
than you did twelve months ago？Never mine what other people think of you，or
where you stand in the eyes of the com－ munity．How much of the respect of and who knows you as no one else can， have you managed to retain ？Are you
a better，bigger，broader，man than when you first wrote＂1908＂at the top of
your business letters？Don＇t dodge this your business letters？Don＇t dodge this
issue．If you are worth the powder in this shot，you will sit down and consider the matter，even if the job be not a par－ ters much more whether a man＇s assets in character show an increase than the may not have made a．dollar last year， but，if you are more of a man，you can
write＂success＂in big letters across your annual statement．You may have
made a p．ile of money；but if you know that sone of it was made by methods
that would qualify you for the peniten－ that would qualify you for the peniten－
tiary，you had better keep your mouth
shint about＂d resulto＂， shut about＂results．＂－A＂Stray Shot
from Solomon，＂in the Canadian Shoe

## TRADE TOPIC

The use of a reliable artificial mare im－ ergies and enhance the usefulness of a stallion largely patronized．This device，
which is advertised in this paper，is said to be effectual in the case of barren mares，or those difficult to get in foal． ＂You believe，then，that it is right to take human life ？＂ For an
thoughtful．


very breeder that has a mare in foal

## should use

## Willem＇s

Brood Maro Special
$\qquad$


wILHELIIN a InOORE，shakespeare，OnL
1．WILLHELIM．Vs． $\qquad$ a．a．moone．

## To Kill Lice or Tichs Uso WEST＇S

## Disinfecting Fuluid

URRS AND PRTVENTE CONTAGIOUS ABORTION． Write for our spocial eiroular by volterinary
Gut Offer： 5 Qallons， 56 50；Froight Prepald．

The Wist Chemlcal Cha， 12S Quoon Et．．E．，Toronto＇，oun．

Shetland，Walsh and Iceland Panlos





E．DYMENT，Oopotown．Ont． Gllead＇s Spring Farm




## CARRIAGES

Write for catalogue and prices．
R．D．MILNER．
P．O．Boo 28．Chathem，Ont．

Cement Sllos！

 A．E．Hodgent，Ex日干 For Sale Importad Clydo shalloni


Imported Cilye stallions and Fillives




With Buckeye Wedge Lock Wires Cannot Slip. Mata ho woide yoy can

 as IAW ASTIT. WANTED for Buckeye Fences, Stays and Locks, London
Coilled Wire, Gates and Ornamental Fencing. London Fence Machine Co., Ltd., London,

## JOHN CHAMBERS \& SONS

 Holdonby, Northampton, England.Ontro horran hhown or fimportod by us won at the



G.K. Geary, St. Thomas, Ont.


Largest Importation of Clydesdalos, Hackneys and Pemohemons of the Year.






## CLYDESDALES <br>  

Smith \& Richardson, columbus, ontario
Shires, Shorthoms and Lincolns.

 John Gardhouse \& Sone, HIghfield, Ont Toronto 14 milles. Wetion. 3 millen.


Quiet, active and sure. Would take a Clyde, Shire or Percheron
JOHN M. BECKTON, Elm Park stook Farm, Glencoe, Ont.

4-




## 2 IMPORTED CLYDESDALE FILLIES

Bired by Prinoe Alozzodare sod Maogregor's ohampion, recorded in Clydeedale Stud. Robt. WoEwon, Bymon, Ont. $\qquad$
Imp. Clydesdales (Stallions and Fillies), Hackneys, Welsh Ponies


SIMCOE LODGE CLYDESDALES



OAK PARK 8TOCK FARM HACKNEYS!



QUESTIONS AND ANSWERS Miscellaneous.

SCUM COMES OVER EYES. I have a mare, twelve years old; scum
comes over her eves for some time, and comes over her eyes for some time, and
leaves again for a time. Is there any leaves again for a time.
danger of her going blind? What is the cause of it, and what should I do for it?
G. M. Ans.-There is always a probability in
such cases that in time blindness will resuch cases that in time blindness will re-
sult, but she may \&o on for years withsult, but she may go on for years without becoming blind. Bathe the eyes
with warm water two or three with warm water two or three
times daily, and, after bathing, put a iew drops of the following
the eyes: Sulphate of atropia, 15 grains; distilled water, two ounces.
STIFFNESS IN HIND LEGS. STIFFNESS IN HIND LEGS.
Could you tell me what is goord for stifness in a horse's hind legs ?
Ans.-The stifness may be due to
rheumatism, or it is probably more like rheumatism, or it is probably more like
ly to be what is called azoturia, due to
good feeding and lack of exercise. If a ly to be what is called azoturia, due to
good feeding and lack of exercise. If a
bad case, feed him only bran mashes for bad case, feed him only bram mashes for
twelve hours, then give him a purgative
hall ball composed of 8 drams aloes and ${ }^{2}$
drams ginger: follow up with a teaspoonful of saltpetre once a day in feed
for three diys, giving only gentle exerfor three days, giving only gentle exer-
cise. In an ordinary case, a teaspon-
ful of saltpetre, twice a day in feed, or
ald as a drench in a pint of warm water,
may give relief, as the trouble probably
comes from the kidneys comes from the kidneys not working
properly. TEOSINTE-TALL OAT GRASS-
COST OF FEEDING COWS. 1. Do you know anything about an
annual fooder plant called Teosinte ? annual fooder plant calt $\begin{aligned} & \text { 2. Did you ever get any report from } \\ & \text { the experimental farm, Guelp, about a } \\ & \text { grass called oat grass that they sowed }\end{aligned}$ grass called oat grass that they sowed
with lucerne? If it was a success, where with lucerne? If it was a success, where
could the seed be got? I saw it grow-
ing in one of the plots last summer. ing in one of the plots last summer.
3. What would it be worth to take in 3. What would it be worth to take in
two cows (farrows) and feed them hay Ans.-1. Teosinte young FARMER somat resembles Indian corn, and grows to a height of
from eight to ten feet in the southern
States. The variety usually grown pro-
duces a great many stalls from each duces a great many staiks from each
root, sometimes as many as forty. The The
crop produced per acre is said to be very crop produced per acre is said to be very
large, and the fodder liked ny all kinds
of stock. The seed is sown in the
spring, and, in climates suitable, the spring, and, in climates sutable, the
plants will produce several cuttings dur-
ing the season. As teosinte has given such good results in the Southern
States, some Northern seedsmen have,
from time to time, been tempted to vertise it extensively. It was testel some years ago on the experimental plots of
the Ontario Agricultural College for
three years in succession. The germina
$\qquad$
$\qquad$
$\qquad$

RINGING A BULL I have a valuable bull that has pulled the ring out of his nose. Is it possible the two pieces that are separated and dairyman. Ans.-We have never seen a case of the
operation being performed, but think it would be difficult, if not impossible,
ofect a natural union of the effect a natural union of the parts to
secure the necessary strength, but think secure the necessary strength, but think
it should be practicable to make a conhection by the use of twisted copper wire. If any of our readers have had shall be pleased to hear from them as to the means used. FEEDING FLAXSEED AND SALTPETRE
mare in foal? If not, how often and 2. Will flax meal hurt a mare, one
nonth from foaling? If not. how often and how much should be fed ? B. L. Ans.-1. The chief action of salt-
petre (nitrate of potash) is upon the
kidneys, causing the secretion amount of urine. It may be given to a
amatren and mare in foal, but not more than a teaspoonful, and not oftener than once a
week, in a bran mash, or as a drench in aeek, in a bran mash, or as a drench in 2. The hest way to feed flax is Soak the whole flax for twelve hours in
water, then boil for two or three hours, water, then boil for two or three hours,
slowly, till it becomes a jelly pint of this twice a day, with bran or
oat chop. If ground flax is used, two
tablespong tablespoonfuls, twie a day, may be
safely given in feed. But ground oil safely given in feed. But ground oil
cake, half a pint twice a day, in feed, is
safer; though, in the quantities named, either is safe to feed to an in-foal mare.

TRADE TOPIC
$\qquad$
there is no greater time-saver in rural Farmers are realizing more value of a telephone service, and reports are constantly coming in from different ing installed. The rural telephone is
useful in innumerable ways. It is usi. iul for getting into immediate connection
with one's neighbors near or at a disand cities speaveral hundred miles away, for summoning a doctor in case of sick-
ness: for calling. atid in the event of fire
or burglarims: for learning the news of poses. Wherever reliable for telehonoes pur-
heen installed in rural communities thes found so useful that farmers would not
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

THE UNION STOCK-YARDS COMPANY, Ltd. HORSE EXCHANGE KEELE ST. TORONTO JUNCTION


Come and see this now Horse Exchange,
it will interest you, also the Quarter-mile Track for showing and exercising
 stall between 900 and 300 head of horrees and are considered by juagee, who have We have sold on an sverarg of 100 horseet per weelk since the opening of this


 of cars at onoe on both G.T.R. and C.P.R.
stook on any kind.
Oorreespondence solicited as to terms, ete.

HERBERT SMITH, Managor.
(Late Grand'e Repository).

## IIMPORTEO CLYDESOALES AND HACKNEYS

 Stallions and mares,
both breeds, repre sonting the be st and Sootland, com bining size, quality
and faultess action and faultless action
Stallions are al guaranteod sure foal
one of equa


All will be
If in need of something ohoice plan. Stallions insured against risk of fall particulars and catalogues.
DUGALD ROSS, Streetsville, Ontario

## For 7 Imp. Clydesdale Sale: Stallions

Also One Percheron Etallion. I will sell the above at low-down prices, as they must be sold this spring. Please write me for prices.
O. SORBY, Guelph, Ont.

## Graham = Renfrew Co.'s

 GLYDESDALES and HACKNEYS.Our Olyden now on hand are all prisewinners. Their broediag ie gilhedged.
 GRAHAM-RENFREW CO., LTD., Bedfopd Park, Ont.

$\square$
CLYDESDALE STALLIONS

MESSR8, DALGETY BROS., GLENCOE, ONT
 25 Importod Clydesdale stallions and Fillice 28 25 Imported Clydesdale stallons and Flilios, from 1 to
 Bootiand ame IMPORTED CLYDESDALES I mallions, 1 to 6 yours of ase; 10






QUESTIONS AND ANSWERS Veterinary

BREEDING STALLION Aged stallion had distemper in 1906, and pink eye in 1907. Will this affect his breeding qualities in 1908? Ans.-Not if he thoroughly recovered from said diseases; but if any serious se quels to the diseases resulted, they mag
V affect his potency.

EPIDEMIC OF ABORTION In this section, nearly an pregnant mares have aborted dur

$$
\begin{aligned}
& \text { 9th month of gestation. } \\
& \text { 1. Is this contagious abortion? } \\
& \text { 2. Was it caused by the stalli }
\end{aligned}
$$

$$
\begin{aligned}
& \text { 2. Was it caused by the stallion a } \\
& \text { time of service? }
\end{aligned}
$$

$$
\begin{aligned}
& \text { time of service? } \\
& \text { 3. Will it be likely to occur again next } \\
& \text { vear ? }
\end{aligned}
$$

$$
\begin{aligned}
& \text { year ? } \\
& \text { 4. What can be done to prevent it? } \\
& \text { 5. Sow, within two or three days of }
\end{aligned}
$$

$$
\begin{aligned}
& \text { 5. Sow, within two or three days of } \\
& \text { farrowing, has completely lost her appe- } \\
& \text { tite. } \\
& \text { R. N. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Ans.-1. It is not contagious abor } \\
& \text { tion, but it due to some local causes. It }
\end{aligned}
$$

$$
\begin{aligned}
& \text { may be due to the quality of the food. } \\
& \text { Grain or hay containing ergot will cause } \\
& \text { it. }
\end{aligned}
$$ it. It would be wise to get your vetori-

tarian to investigate, and, if possible,
deter rarian to investigate, and, if possible,
determine the cause.
2. This is not probable, as, no doubt, several stallions were at stud. In some
casess mares that have been bred to a
stallion that has suffered from a procasesion that has suffered from a pro-
stallion
longed attack of influenza will abort at longed attack of influenza will abort at
various stages of gestation, but this is various stages of gestation, but this
not often noticed.
3. If the same conditions exist; hence the cause should be discovered, if pos-
sible, and removed. sible, and removed
4. Prevention cause.
5.
. Give ten
drops
tincture of nux vomica, and 1 dram tincture of gentian,
in half a pint of water three times daily.

## Miscellaneous.

THRUSH.
Please explain the disease of a horse's
foot called thrush, and give a cure for the same,
afterwards Ans.-Thrush is a disease characterized by a dischnrge of footid matter from the less continued presence of irritant matter
such as urine, in the cleft of the frog Some horses are so predisposed that slight exciting causes produce the disease
Clean the cleft of the frog ly, and keep it clean. Keep the stall dry and well bedded. Remove all partially-
detached horn,
and syringe or dous daily with a solution of one part formastinate cases, a slightly stronger solu
tion may be used. Formalin is coming into wide use as a disinfectant and antiseptic. Every farmer should keep a sup-
ply on hand.
It may be procured the local drug store

FENCE ON ROAD.
There is an engineer's ditch running
along the front of A's farm. The right water course would be across the road into B's farm, then back again and
through A's farm. This, along the front of A's farm, is through a hill. The
council has thrown the clay. council has thrown the clay against A's
fence, tind partly covered it. The council says A's fence is set on the road. The forty has been sitting there for thirty or thing. 1. Can A compel the council to re-
move the clay from his fence, and how should he act? 2. Can the council compel A to move
his fence ? 3. Who would have to pay the engineer
for surveying the line along the roud 4. How is nitro-culture to be used on alfalfa seed?

Ans.-1. We do not think so.
Yes, if it be really upon
Wes, it it be really upon the road. 4. According to directions accompany-


Has Initators But No Compotitors,
a safe, Speedy and Postite Oure for A Safe, Speedy and Posittre Ouro Ror






THE LAFAYETTE STOCK FARM








SHOE BOILS Are Hard to C
ABSORBINE
Mil ramo them tha laero po

 HORSE AGTIOI DEVELOPERS

 IMR. A. I. HICKMAN, Court Lodge, Egoerlon, Kent, England, exportibedifro ilvo floak of overy doarriplon







 Clydesdales, shorhorme breand Cot tholeo-For



FEW HERE KNOW THIS. When an eminent authority announced found a new way to treat that dread American disease, Rheumatism, with just
common, every-day drugs found in any ommon, every-day drugs found in any
rug store, the physictans were slow in deed to attach much importance to his claims. This was only a few months ago. To-day nearly every newspaper in
the country, even the metropolitan dailies, is announcing it and the splendid results achieved. It is so simple that anyone can prepare it at home at sm
cost. It is made up as follows: from any good prescription pharmacy Fluid Extract Dandelion, one-half ounce; Compound, Kargon, one ounce ; Com-
pound Syrup Sarsaparilla, three ounces lix by shaking in a bottle, and take in teaspoonful doses after each meal and at
bedtime. These are all simple ingredionts, making an absolutely harmless home emedy at little cost.
Rheumatism, as everyone knows, oudition of deranged kidneys. It is a tidneys to properly filter or strain from the blood the uric acid and other matter Which, if not eradicated, either in the arine or through the skin pores, remain in the blood, decomposes, and forms
about the joints and muscles, causing the untold suffering and deformity of rheumatism.
This prescription is said to be a splendid healing. cleansing and invigorating
tonic to the kidneys, and gives almost immediate relief in all forms of bladder and urinary troubles and backache. He also warns people in a leading New York many patent medicines.
Senator Hopkins, of Illinois, illus-
trated a atory with a reference to the rated a atory with a reference to the
alertness of Aurora bridegroom "You know how bridegrooms, setting of and buy tickets only for their brides Well, that is what this bridegroom did Auror him, Why, you only bought one Brown Swiss Cattle FREMOH-GANADIAN HORSES. We are offoring for sale oattle of both nexes and live. Horsee of all ages. Btallions, mares and prices. We reptesent excily as the animal is o. E. STANDISH, Ayer's Ollff P. O.

Sunnyside Herefords


 Herefords cismat

 foot and bred aggin, for sale. Thomas Skippon, :-: Hyde Park, Ont Aberdeen- surfolik pown Angus if you require either of these Cattle James Bowman,Elm Park,Guolph ABERDEEN - ANGUS
 EIELTER BALL. Wanhindion, Ontarlo. MAPLE GROVE SHORTHORNS Sootch and dairy bred; up to date in type: prise-
winners at the local shows. A numb rof 1 and 2 year old heifers. 1 year old bull, and one 5 mos.
old- the last will mekea Bhow bull Flnra bred-
 GREENOCK'S SHORTHOANE. nadian-bred females, Scotch and Scotch-topped
For sale:
7 bulls tor of them out of Tmp. dams; also Eome choice
 YOUNG SHORTHORN BULLS!


QUESTIONS AND ANSWERS Miscellaneous

ALFALFA QUERIES I have a field on which I had corn last ear, and it was a good crop; manured
last fall, and plowed. I intend to try ome alfalfa on part of field this spring. the rest of the field will be too low. I thought of sowing some red clover. Will
both of these crops yield.a good-paying fop this year? The land is good, and 2. How many pounds to grain.
2. 3. Will a field that will grow a crop corn or wheat or red clover grow alfal
SUBSCR1BER Ans.-We would not recommend mixing
any red clover with the alfalfa seed, as
the latter will do better alone, and the the latter will do better alone, and the
wo crops do not mature togeither. The
alfalfa stems would be woodye lfalfa stems would be woody before the
lover was ready to cut. if sown without any nurse crop, a light yield of hay
right be secured this year; but nearly as ight be secured this year; but nearly as
good a stand would be sicured with a
ourse crop of a bushel of barley acre. In the case of alfalfa, which, if
sucessful, will be lett for a good many
years. sowiny without a nurse cron th years, sowing without a nurse crop is
probably wise. For clover seeding, a proshel and a half of barley had better be be
hown, so as to derive some use from the own, so as to derive some use from the
land, for a stand of clover is not ordi2. Use 20 to 25 pounds of alfalfa per
acre. and 10 pelfala acre, and 10 pounds of red clover; or,
better, especially as land is low, 8
pounds red clover with and 4 pounds timothy. pounds alsike 3. Probably. A field that grows red
cover well is likely to be good for alfalclover well is likely to be good for alfal.
fa, although the latter crop is rather
more exacting as to drainage, and
amount of potash, lime and phosphoric cid in the soil. Clay hillsides are best
Br alfalfa.
BREEDING EWE LAMBS-SOW EEDING EWE LAMBS-S
THISTLE-ALSIKE VER

1. I have some well-bred Leicester
ewes, and, last fall, bred them to a
young Leicester ram, which is well bred
also. Would you advise keeping this
alsmen med young Leicester ram, which is well-bred
also. Would You advise keeping this
ram to breed another year; and would it
be advisable to breed his lambs to him?
if necessary, to keen the crop clean. Ow-
ing to the small size of alsike seed, it is
especially important to keep it free of especially important to keep it free of
weed seeds. We might add that one
great. advantare of pasturing in some great. advantage of pasturing in some
cases is that it sets blooming period cases is that it sets blooming period
back till after the bulk of the alsike the neighborhood has blossomed, and
thus helps to insure more abundant thus helips to insure more assundant fer-
tilization by bees, and accordinaly muen tilization by bees, and
larger crops of seed.

## Veterinary

UNTHRIFTY FILLY

$$
\begin{aligned}
& \text { Two-yeur-old filly is unthrifty and has } \\
& \text { been so since last spring. Her hair is }
\end{aligned}
$$

MILBURN'S


Are a combination of the active prinolples of


CURE
CONSTIPA
CONSTIPATIO

CURE
BILIOUSNES
Dyapepala Boup Btomach, What uad Comploxion.

CLEAN
OATED TONGUE
owrooton the broath and cloar away all wawh

 Hawthern Herd of Deep - milkins SHORTHORNS e youna bulle.
by Aberdeen Hero, Imp.
$=08840=$. Also females aill ages. Wm. Grainger \& Son. LONDESBORO P. O. SHORTHORN BULL OFFERED Dark roan; real good hoed and horns; excellent

 ny good herd.
 Maple Grove
SHORTHORN. 6 bulls and 2 heifers for eale,
Bred from imp. and home-bred ook. A number ory oung bows
fo in calf. Present etock bull tarry Morning. C.D.WAGAR,
Enterprise, Ont. Sta. $\&$ P.O.

Athelstane Shonthorns! Throe ohoice buls from 9 to 12 months and
heifers from 1 to 3 years ; low down, thiok fleshed and
sorto of families: Rosemood, Butter fly. Rosaling,
and Countess, and mostly sired by the Bruce Maylower ball, Star Prince =53900=. Pricos
WM. WALOIE.
Merr reeanomable. Ont.
Box 324. R. H. REID,

Clover Lea stook Fapm
PINE RIVER, ONT.,
BREEDER OF SHORTHORN CATTLE
SPRIIIG VILLEY SHobThoBils
Two young imported balls of the very best qual.
ity and orroeding. Bia Canadian-bred bulls
mostly the get of Bepton Chancellor (imp.) ity and breading Bix Canadian-bred bulls.
mostly the get of Bapton Chancellor (imp.)
moter KYLE BROS., MVR, ONTARIO.
$\qquad$

OUÉSTIONS AND ANSWERS Miscellaneous.

PRORABLY DISEASED TOOTH Horse runs a yellowish green fron poth nostrils, and also coughs up grea He is an aged horse, and has heaves started last summer. Ans.-The symptoms described appeat ooth, but it might be something of ontagious nature. In such cases of suspicion, the proper thing to do is to 0 otify, at once, the Veterinary Director-
eneral (Dr. J. G. Rutherford), Depart ment of Agriculture, ottawa, Ont. A this horse is old and unsound anyway, hances taken.

GREASE
I have a horse, fifteen years old, hat lore feet for about a year. It has a ver ffensive smell, "and discharges freely Can you advise me what will cure it? Ans.- - Purge him with a $\begin{gathered}\text { a } \\ 2\end{gathered}$ eeding only bran mashes for twenty-in, ours before and after. Poultice for two lays and nights with linseed meal and nd changed every four or five hours. hen dress, twice a day, with a solution
or corosive sublimate, 15 grains to pint of water, opening up the hair
get the lotion into the sores PLANK-FRAME BARN IN QUIRIES.


INTERNATIONAL STOCK FOOD COSTS ONLY
 This Beautiful Plcture It 6 Brillant Colors Mallod to Yoi FREE And


 Mutavixu woue


WRITE AT ONCE Sot, Nne the the Paper in white you in international Stoch Food Co romonto, CANADA

37
3 FEEDS 管 ONE CENT
2m
Man man


## LIVINGSTON'S OLL CAK


Yothing is better for fatiening steers quickly and patting them on the market in prime
 ore and bittor milk Mhen Red Livington's oil cake moal. A
DOMINION LINSEED OIL CO., LIMITED
Montreal, Que.
Baden, Ont.

SHORTHORN BULLS|HERD BULL FOR BALE For sale.


other particulars apply to
to ILLER


 ors always weloon

Brougham P. O. M. O. Ry, and P. M. Ry


We are offering a very superior lot of shorthorl
H1Ome-bred Bu11s of the best breeding and quality at attractive prices for the buyer.
To see them iif all that io neeoeseary Try to do no if you are in the smo. clincy. Haner. CARGILL \& SON, Cargill, Onf,

T. DOUGLAS \& SONS


## 2 Vary Fina Young Bulls

ONE RED AND ONE ROAN
0 and 16 monthe old From imported sires and dame. Both will make w. J. SHEAW \& SON, BOX 856, OWEN SOUnO.

A, EDWARD MEYER, Box 378, Guelph, Ont.,
Offors for sale two young seoteh-bred bulle of
good colors. both irom imported sire : one from mported dam and the other from a clementine
 Salem Shorthorns!

. A. WATT, SALEM, ONT Elora station, C.T. R. and C. P. R. Long-distance phone. TWO IMPORTEO BULLS Piroot from Aberdeonshire, sootland, of exoel.
font auality, oolor and breeding, two from imp. ro and dam, apd others irired oy Joy of Morm


 Wo ofter for male oholico young bulle from 6 to 10
 ther imp. or Oainalian-bred.
 Maitland Bank Shorthorns ${ }^{\text {-Five }}$ to bulle, 18 mont ix balls, 9 to 12 months, got by Broadhooks
 ale. Oome and set ihem or write inel, Ont. BCOTCH BHORTHORNSI We noworer for hedifor calver 10 nid 11 month Ild. All roda, Brod from Imp. nire and dame: STONELEIGH E. JEFFS \& SONS, STOCK FARM $\begin{gathered}\text { Breeders of Shorthorne, Lei- } \\ \text { cestion snd Berkshires. Young }\end{gathered}$



## SCOTCH SHORTHORNS



J. F. Mitorelil

SHORTHORNS AND LINCOLN SHEEP.




Shorthorns! BELMAR PARC.

mana

Pr White,
 Monparill Arehor, Imp. Proud amm, Imp. Marieots Sallor. Monparoil Eollopes. Pomat lein Imported and from import.
An unaurpaesed lot of yoarling heifern.


PLEASANT VALLEY SHORTHORNS



## 10 <br> IMPORTED BULLS

Recently arrived from $\mathbf{S}$ zotland in good condition. They are a superioz lot. Selected for herd-keaders. We also have a number of Canadianbred bulls of excellent quality, and representing the ohoicest breeding. Femsles suitable for show or breeding purposes.
W. G. PETTIT \& SONB, FREEMAN, ONTARIO Burlington Jot. Sta., G. T. R.

Bell telephone at eaoh farm.

## ${ }^{11384}$ Maplo Lodgo Stock Farm 1007 An exceptionally ohoioe lot of heifers and Bong bulls for sale now. Beat milking train <br> . W. Smith, Maple Lodge P.O., Ont.


SCOTCH SHORTHORN BULLS ${ }^{-}$Woodiold Princo, sire

$\qquad$

TRADE TOPICS Hydraulic-power presses, steam evapora tors, gasoline engines, etc., are adver Mt. Gilead, Ohio
bickmore's gall cure. - a specific for the cure of scratches, grease
sore shoulders and other ailments of sore shoulders art and
horses is advertised in this paper, together with a sample horse book, by the

To any of our readers contemplating a trip across the Atlantic, we recommend a perusal of the advertisement of the
Dominion Steamship Company, running Dominion Steamship Company, running
in these columns. For solid comfort ait a moderate rate, the steamers of this line
moe
sailing weekly from Montreal and Que sailing weekly Irom Montreal and Que-
bec for Liverpool, have a first-rate repubec for
tation.
The safety tackle block advertised in The safety tackle block advertised in Company, Cleveland, ohio, is a labor-
saving device which should appeal to farmers in these times of scarcity of
suitable help. For stretching wire fence, unloading hay and grain, slinging inJured animals, raising building frames, and many other purposes on the farm,
this safety tackle block answers admirably, being positive in its action and
abletion and
working with safety and satisfaction working with safety and satisfaction.
See the advertisement, and write the company for their free catalogue, which
tells all about the advantuges of this do tells all about the advantages of this de
vice, mentioning ". The Farmer's Advo-
cate." PEERLESS WOVFN-WIRE FENCING. -Throughout Canada, old-fashioned rai
and wooden fences are being rapidly dis. placed by woven wire. There are many
makes offered for sale, each with good
cunlities cyualities to recommend it, and high
among the list, if not, indeed, on top,
is among the list, if not, indeed, on top,
is the fustly-celebrated Peerless fence,
manufactured by the Banwell-Hoxie Wire manufactured by the Banwell-Hoxie Wire
Fence Co., Hamilton, Ont. One of the strongest painis about. this fencing is
the ". Peerless
Lock," an ingenious the "Peerless Lock," an ingenious
method of so arranging the tie wires that while it admits of the greatest flexibility
and elasticity of the fence as a whole it and elasticity of the fence as a whole, it
prevents any slipping or sliding of the prevents any slipping or sliding of the
stays, or springing out of place of the
lateral wires, keeping the fence frm and lateral wires, keeping the fence firm and
rigid. The material employed is what
is known
 pered in the process of making as to re
tain the greatest possible elasticity and tensile strength without brittleness.
Practically rustproof and strongi it will Practically rustproof and strongl it will
stand for years without repairs, resist-
ing, it is claimed, attacks of the most ing, it is claimed, attacks of the most
vicious animals. It is neat and attrac-
tive when properly erected. tive when properly erected, enduring ex-
tremes of weather, and not sagging or iremes or weather, and not sagging
getting " baggy., Peerless fencing
made in a variety made in a variety of styles to suit
different nses, and the purchaser may
choosn a meah anenty
 according to his requirements. This sea-
son the company are putting out an son the company are putting out an
especially attractive tine of woven-wire
poultry fencing, built on the same plan
 -

## QUESTIONS AND ANSWERS

 Miscellaneous.BLACK TEETH IN PIGS Editor " The Farmer's Advocate We have a brood sow which has raised
several litters. She fed her lat for a week or two quietly, then she be came very cross, would not let them suck, and they were likely to starve. We look out all the black teeth. Then let
the sow in with her litter, and she lay down quietly, and we had no more trouble. They grew rapidy after. Wer
had several similar cases before, and in every case the pigs improved rapidly after this treatment.
[Note.-It is not because teeth are indicative of a disease of the thang pigs as popularly believed, but that they cause pain to the mother, making her cross and irritable, sometimes to such an extent that she snaps at a pig
and kills it, and, having tasted blood and kills it, and, having tasted blood,
she may take to eating her young, tragedy which sometimes occurs. It good practice to break off these sharp
teeth with a pair of small pinchers keeping the sow in another pen during the operation.-Editor.]
DEVOLUTION OF ESTATES,
but no children, to whom would his property fall? Would whis sistera and would it be distributed? 2. If a young lady had money de-
posited in the bank and should die withposited in the bank and ehould die with-
out a will, to whom would the fall, or who could collect it? ? ? Ontario. Ans. -1 . Assuming that he died with-
out a will, if the net value of his real and personal estate does not oxceed lutely and exclusively. If such net value should exceed $\$ 1,000$, the widow would
take the $\$ 1,000$ and interest thereat take the $\$ 1,000$ and interest thereon at
4 per cent. per annum from the dat 4 per cent. per annum from the date of
her husband's death, and one-hall of the residue of the estate, and the remainder
of such residue would $\mathbf{k}^{\text {'n }}$, including his sisters and brothers 2. Her next of kin would be beneficial. ry entitled to the money, but it would
be collected by the administrator of her CAMPHORATED LINIMENTGive the recipe for camphorated liniment and a cure for scratches. I have
great pleasure in reading our paper. It is a great help in farming and other use-
ful occupations. Ans.-1. The following recipe for camphorated liniment is taken from a text-
book used by Dr. J. H. Reed, at the Ontario Agricultural College: Alcohol, 3
fluid ounces; oil of turpentine, ounces; spirits of ammonia, 1 fluid
ounce; gum camphor, 4 drams: water to make 1 plnt.
2. Remove the patient have a case, if pays' rest. a purgative of 6 to 10 drams aloes and
2 drams ginger, according to aize. Feed
bran only until bran only until purgation ceases, and
even then feed very little grain until he
is put to work is put to work again. Follow up with
$\mathbf{3}$ drams nitrate of potash twice daily for a week or ten days. Local treatment possible, without washing. Many cases of scratches are aggravated by washing
with soap and water. Local applications depend, to a considerable extent,
upon the weather, apon the weather, especially in cases
where the horse has to be worked or
driven during treatment. driven during treatment. be worked or
or ointments are generally oils
aileed, oinnately.
lotions have buch an astringent eather
that they dry up and harden the skin,
whereas oils or ointments have smore whereas oils or ointments have a more
softening and, at the same time, untion softening and, at the same time, anti-
septic effect, and tend to prevent crack. ing. Apply warm poultices of linseed
meal, with a little powdered charcoal,
every every six or seven hours for a coraploal,
days and nights, and then apply, three
time days and nights, and then apply, three
times daily, an ointment composed of 2
drams oxide of zinc, mixed with $1 \frac{1}{\text { a }}$


## Tons of Energy


$\qquad$ DR HESS STOCK FS?D



10e Ibs. $87.00 ; 25 \mathrm{Ib}$. pall 82.00
Wher er. Hess stock Food differs, in particular is in the dose-it's small and $f$ ed

 DR. HESS \& CLARK, Ashland, Ohlo U. S. A. A. UMTANT LOUSE KLLLER KILLB LOE.

## THIS IS THE

 HAND SPRAMOTOR. H:ar y No. 1 or Mo. 2. Mounted on a 2 -wheel cart. Hes 52 Inoh wood wheel with iron hub, coldrolled steel axle, hardwood frame. For one horse Adjustable all-brase
 our patent parallel nozzle oontroller, holding nozzles in corrreot position
when raised or lowered with rack and pinions all fitted for vineyard and mustard and orohards, and all kinds of hand


##  10 Lin order to make room  

HOLSTEINS FOR SALE

 bulla. 7 , head to choose from oome
and sot them, or write or pricos and
deerition
deseription.
 MAPLE GLEN HOLSTEIN\&



Only Bull Calves
Maplo Hill Holstein-Friosians
 @ W. Clemons, st. Ceoree. Ont



 for bale holstein and myrshire GEO. RICE, Annanandale Stock Farm, Tillsonburg,Ont.

FAIRVIEW HOLSTEINS
 alf the tor onto 3 .imen hampion Also

Holstelns and Yorkshilmes




The colden Lad Eull.
 Exhibition. His calvee coming from my
pare Bi. Lembert cow proves this oross a derfal sucbes. Oorrespondence invil T. PORTRR, Woenton Road.

N JEPSEVS
DON JERSEYS


 Duncan station, C.N.R.
Jerseys suit on onaiog , muat



 Whon witinn divortiome
Plases Mantion this Papal

## BRAMPTON JERSEYS



B. H. BULL \& SON. BRAMPTON, ONT.

KELSO S. F. AYRSHIRES|Sunny Springe Farm. ${ }^{\text {Wom }}$ now

 Nornh part oulara
When Writing Please Mention this Pape
STONEYOROFT STOCK FARM, st. Anne de Bolleve

(Adjoining the new Macoonala Colleee)
Breedere and Importors of pith-inem
Aymhime Cattle, Clydesdalo Horse Yorkehime 8wine and Colle Doge Anything for sale. We offer especisilly a few select young balls
 HAROLD M. Mell'Phone connection.

STONEHOUSE AYRSHIRES



The "STAY THERE"上evex



Burnside's Champion Ayrshires





R. R. NESS, Howlck, Que.

AYRSHIRES Young balle from prod daing Wardon Wo have only four spring bull
 gitiliton and Toterrmbl



SPRINGHILL AYRSHIRES!


 Drices. ROBERT HUNTER \& SON\&,
Long-distanoe 'Phone.







OAKDALE BERKSHIRES Lartion Berkaire herd in Onowe



Subscribe for the Farmer's Advocate
$\square$

## GOSSIP

Dr. C. K. Geary, of St. Thomas, Ont., Shire horse breeding frm of John Cham bers \& Sons, Holdenby, England, has rately sold to Mr. Archie Reid, of Jarratt's Corners, Simcoe Co., the high class quality. Shire stallion, Cranmore Cir-
ton (imp.), by the renownod show horse, ton (imp.). by the renownot show horse, Shire quality, Cranmore Girton hus had lew equals ever landed in Canada. A the late Horse-breeders Show, in To
ronto, he was placed second, but considered by many competent judges an easy frrst. He is the scrt badly neded
in this country, as he combines size in this country, as he combines sive and
quality, beatifuly moulded, and will cer-
quily

 Mr. .Reid purchased from the Doctor the
right good Shire stallion. Bramhall Zea-
 been the demand for' the esvicices of this
horse that Mr. Reid was compelled to buy Cramore Girton to hell him out,
The Doctor reports the demand for Shires as rapidy on the incrense, $\begin{aligned} & \text { and } \\ & \text { expects } \\ & \text { another }\end{aligned}$ shipment about April
and 1st, several of which are alrendy booked
the cargile shorthorns. THE CARGILL SHORTHORNS.
At the present time the great Cargil herd of sift strong. nearly a hundred of
and
which are imported from Scotland, the Which are imported from Scotland ithe the
bilance being their produce. it is doubtul if there is another herd in
merica so strong numerically, and, cerdmerica so strone numencanty, and. cer-
tain it it, there is no other with more
higheclass animals in it. Originally so high-class animats in it. Originaly so-
lected from Scotiand and England's best.
 interests, which have accrued from the presence of this great herd, the annual
produce of which are sactiered though-
put the length and breadth of the land.

$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
A Shorthorn cow belonging to Mr. A urninull. Ward, Coldstream, Scotlan ession. This would seem in sca

```
cession. This would seem to be
```

Messnes -
Messrs. John F. Cousins \& Sons, Hur
ston, Ont., breeders of Shropshires
xfords, and Yorkshires, write
sheep business was very good in 1!
hanks to 'The Furmer's Advocate'
ald outside orders. We sold to Mre
outside orders. We sold to Mr. J.
Carswell. Bond Head, six
Chearlings, by Hampton Hero (imp
in lamb to Hamptonian 96 (imp.).
ome foll F .
rams to W. Kean and R. Wilkie, Harris-
ton; Westney Bros., Pickering; J. A. A.
Somerville and Wm. Maxwell, Wingham;
J. Thomson, Mildmay.
ing good and fast."
THE MANOR SHORTHORNS AND
The Manor Stock Farm, the beautiful
nd well-appointed home of Mr. John T.
ibson. of Denfield, Ont., was visited by
representative of this paper a dew days
ago, and, although it has been our
privilege on several former occasions to
visit this noted stock farm, we do tot
remember over seeing the large herd of
remember over seeing the large hend of
Scotch Shorthorns in better winter con-
dition, nor ever seeing so many high-class
heifers in the stables. It was a great
heifers in the stables. It was a great
day's work for Mr. Gibson when he pur
day's work for Mr. Gibson when he pur-
chased that grand stock bull, Imp. Proud
Gift, the Pride-bred son of the Marr-
Goldie bull, Golden Gift. He has cer-
tainly sired many hich-class heifers for
Mr. Gibson, prominent among which was
the last fall's Toronto junior champion,
and to-day there are some mighty like-
ly candidates in the herd for honors
candidates in the herd for honors
equally as high, to wit., two heif.

Of the noted Cruickshank J.. or J.l.la
tribe, and a ten-months-old Cruickshank
Clipe, and a ten-months-old Cruickshank
Thaughters of Proud Gift.
These are only three of a dozen or more,
with not a mean one among them. All
with not a mean one among them. All
told, the herd is about 50 strong, bred
on tribal lines, as follows Six Cruic
on tribal herd is about 50 strong, bred
on trons follows: Six Cruen-
shank Clippers, descended from Criener
shank Clippers, descended frotn Clipper
2nd (imp.), by Christmas Cup, two of
them by Imp. Golden Drop Victor, two
Imp. Proud Gift; four Miss Ramsdens,
Imper
the elder one being Duchess (imp.), hy
Matadore, one by (Governor General, and
Matadore, one by (Governor (imeneral, and
two by Proud Gift: five Cruickhank J.,
or Julias, the elder being Juno (imp.,
by Cornelius, a full brother to Corner-
stone, one imported in dam, by Scotish
Actor, three by Proud (iift. five
Actor, three by Proud Gift, five Undines,
the elder being Imp. Lady Fanny, by
Baron Ruttercup; Imp. Lady Fanny, by
by Proud Gift,
one by Imp. Nonpareill Duke; five Minas,
one by Imp. Nonpareil Duke; five Minas,
the oldest being Mina Lass $=25328=$ by
the oldest heing Mina Lass $=25328=$, by
13ritish Chief, a or of Imp. Indian Chief.
one by Imp. Prime Minister, one by Gover-
nor (ieneral, three by Proud Gift: two
Wimples. one by the great show bull,
Mildred's
Wimples, one by the great show bull,
Mildred's Royal, the other by rosebud
Champion; two Matildas, one by The
Champion; two Matildas, one by The
Paron (imp.), the other by Prince Rams
den (imp. in dam); two Bessies, one by

one Martha, by Nonpareil Archer (imp.);
Rosemary 137th (imp.), and heifer calf,
by Proud Gift; and three Lavinias, by
by Proud Gift, and three Lavinias, by
same sire; an exceedingly richly-bred herd,
and a herd strictly up-to-date in type,
and a herd strictly up-to-date in type,
with a wealth of flesh, evenly dis-

and is an extra easy ieeder, less than 27
his extended pedigree no less
crosses of Cruinishank breeding.
noll bull sure, andesty that will make a miss hams-
lens. Practically anything in the herd is
Practically and anyo hing in the herd is
r sale. The tincolns need no recom-


SHIP TO WE $\underset{\text { PAYALL }}{\text { EXPRESS charges }}$ E. T, GARTER \& CO 83-85 Front St., E., TORONTO CANADA. Extra
Prices for
LYNX, SPRING RATS AND FOX. and Most Reliable
Hide, Wool,Skin and Fur Housein Canada


Hampshire Down Sheep
Splendid Mutton, Good Wool, Great Weight

This highly valuable
ENGLISH BREED OF SHEEP in unrivalled in its rapida and
WONDERFULLY EARLY MATUBIT hardiness of constivution, adapted mutton and large proportion or LEAN MEAT IS UNSURPASBED.
Fall information of secretary,
Hampshire DownSheep Breeders'Association salisbury, england
SOUTHDOWN SHEEP
Unequalled for fine quality of both
mation and won hardinest of conti-
tation, and earliness of maturity STRIDE \& son will sell by buction
Ohtohester, guseex, England, on
AUGUsT 19th, 1808,
6,000 Southdown ewes,
500 Southdown rams and ram lambs.
ON SEPTEMBER 16ih, 1908,
4,000 Southdown ewes.
300 Southdown rams and ram lambs.
Commissions careful's execated.
Telegrams: $\quad$ S IRIDE, Ohichester, England.
atride a son. Chichester, sussex, Eng.


Catile and Sheep Labels | Bira |
| :--- |
| catu |
| cat |

 Onford Down shoep. Shorthorn Cattle



Consumption
 MOUNT PLEASANT HETD OFTAMO


EAST BANK HERDS

 Duroc-Jerseys Borris. for for

$\qquad$

 MONKLAND YORKSHIRES
 JAMES WILSOO N AO SONS. FERCUS, ONTARIO.







## EImhurst

 Berkshires einted or mones refunded. MuxpreLarge stock mo ehoose from. Write uas. H. M. VANDERLIP,
mporter and Breeder. CAIMSVILLE P. O., BRAMT CO. Yorkshires and Tamworths - Eitber broed, Mowlow brook Yorkehimes.

 sucrantied an repremonted.
J.N.SMELC, Hagerovile P.O. \& Etation.






Cedar Lodge Yorkshimes 100 hoad brood sown (dmp.) and the
prod net of imp. stook, weighing from 500



P. O. COLLINE, Bomearlile P.O., Ome. CHESTER WHITE HOG8

 R RBERT CIARKE. A1 Cooser Stroot. Nttawn. Ont





H.J. DAVIS, WOODSTOCK, ONT. Lange Engllsh Bonkehines


joshua Lawrence, oxford center, ont

BOOK REVIEW.
7 Steam engineering.
In view of the many enquiries received by "The Farmer's Advocate" on the subject of running farm engines, and from
farmers' sons and others who desire to farmers' sons and others who desire to
take up steam engineering as a profestake up steam engineering as a profession, we are pieased to be abie to comfor review by the author, W. H. Wakeman, of New Haven, Conn. It is enman, of .. Engineering, Practice and Theory for Steam Engineers," and is also designed to assist those who desire to pass examinations on the subject. Mr. Wakeman thoroughly understands what he undertakes to write about, not only theoretically, but by extensive actual practice. Concise and readable, it is a
reliable work on the technical points inreliable work on the technical points in-
volved, and we heartily commend it t volved, readers, who may obtain copies
our
througe this effice at $\$ 1$, or by sending our readers, who may obtain copies
through this office at $\$ 1$, or by sending
the names The Farmer's Advocate." subscribers to
The or new

LONGEST-LASTING NO, 9 STIFF-STAY FENCE

"MONARCH" ${ }^{\text {sTHF }}$ STENCE
OWEN SOUND WIRE FENCE CO., LTD., Owen Sound, Ont.

SUBSCRIBE FOR "THE FARMER'S ADVOCATE AND HOME MAGAZINE"

"Come, Brace Up! It Cured Me and It Will Cure You"

| Why do you sit there depressed b gloomy thoughts, with that sad, d couraged, haggard face, when there within your grasp the means which jou can regain your strength energy, ambition and happiness? is time for you to brace up, be man, take an interest in the goo things oi dife. Look at me! Wasn 1 in the same condition as you Now I am happy, full of strength and ready to tackle any obstacle Yes, I too tried drugs, but the failed. Electricity will not Dr. McLaughlin's Electric weak man will ever regret triad of this grand Belt-it brought health and strength to tho sands in the past year. <br> Here is <br> of the many men cured <br> Thos. Bridges. $\Lambda$ shdod, Ont., say <br> I have been greatly benefited by <br> Belt I purchased from you some ago. My heart is much better, the rheumatisin in my arm has left. I feel improved in every spect. It has done all you claim for it. Thanking you for the intere you have taken in my case <br> Isn't this alone evidence enough to truth. Here is another <br> James Hatt, Beech Hill, N. writes: <br> I am glad to tell you that you felt as strong and well in my life a and back are gone, and I have gaine every day, and do not feel the firs $\qquad$ of my aches and pains., | tried every other known remedythose who have about given up try ing and think that there is no cur for them. Do you think you do justice to yourself to fill you stomach with drugs day after day when 'you can't see anything bu temporary stimulation in them? (If you want stimulation, take whisky it is alcohol, like the drugs, and doe less harm taken in the same was.) want to explain how vital power restored by electricity, and I ca prove to you that vital power nothing but electricity. Then you ca see that your trouble can be cured b electricity, and can understand why us show you the only road to health strength and happiness. No health person was ever unhappy, because heart full of vitality is light an gloom and depression which is calle grief. Some people are unhapp without cause. This is depression due to weakness. <br> I have a Special Electric Attach ment which I give free to those wh wear our Belt. This Attachmen parts and fills them with its warm vitalizing power; bringing about sure and lasting cure. Weaknes Lumbago, Kidney, Liver and Stomac are, inतigestion and Method Do day Here Mr N. S., has this $\qquad$ some days since | as I have not felt rheumatism or I got my principal ailments, since ago. I recommend it at every opportunity, and will continue to do so as long as I live, for I believe it has saved me a world of suffering. I am now 73 years of age, and hale and hearty, thanks to your Flectric Belt." <br> It's easy to be cured my way. You put my Belt on when you go to bed: you feel a glowing warmth passing through your body, and the electric power gives you new life. When you wake up in the morning you feel bright, lively and vigorous, and you have gone. Our Belt has removed them, and they will never return. That's a better way than making drug store of your stomach whoever saw anybody actually curel cure and if you have triad them, you know it. Nearly all my patients tried đugus first. If you haven't got reasonalıle security, and you can pay me after you are cured. $\qquad$ $\qquad$ $\qquad$ send coupon for beautifully illustrated so-page Free Book <br> DR. M. S. McLAUGHLIN, <br> 112 Yonge St., Toronto, Can please send me your tronk, free. Name Address Office Hours Wed. and |
| :---: | :---: | :---: |

Farm, Woodville, Ont, offer in this issue of ."The Farmer's Advocate - Strathattan shorthorn bull cali, scribed as a good one, of the best of breeding, and should make a capital hera-header. Ant for next fall's show-rings should see this promising youngster.

Volume 24 of the Dominion Shorthorn Herdbrok, under the auspices
tional Live-stock Record been issued. It is a volume of 680 pages, edited by R. G. T. Hitchman,
Registrar, and contains the pedigrees of 4,950 bulls and 5,444 cows, or a total of
10,394 pedigrees, received in the National Record office from Jan. 1st to
Dec. $31 \mathrm{st}, \quad 1907$ The bulls in volume, which is apparently well comvolume, which is apparently well com-
piled, number from 65,530 to 70,480 ,
and the females from 76,763 to 80,207 . and the ferales from 76,763 to 82,207 .
Included in the book is a list of members Included in the book is a list of members
of the Association and its officers and directors, with their post-office addresses, hibitions.
 Flower $=53335=$ by
Folden Rolden
Fower's (iem $=78705=$
(ien Sunyside King, and Fancy Flower, by the same
sire; the Mildreds in Pine Grove Mildred Sunset $=79573=$, by Missie Champion; Minas in Mina Lass 13th, by Imp. Proud
Gift: Nonpareils in Broad's Pareil, by Gift: Nonpareils in Broad's Parell, Gifts in Sunnyslope Lass, by Matchless
Duke; Minas in Mina Countess, Wy Suke, Minas in Mina Countess, by Imp.
Spicy Cunt. Besides these there are
several Fashions and others, bred several Fashions and others, bred on
milk-producing lines.
Imp the stock bull is Imp. Greengill Archer, by the Orange
Blossom-bred bull, Archer's
Heir, dam Cranberry 4th, by Murchison; he is a grand-
ly-proportioned ly-proporn
order, and has proved a sire of thick,
early early-maturing animals. In young bulls
there are a pair, a red eleven-months-old by Chancellor's Model, a son of Tmp. Crimson Flower, the other, a roan, same
Crige, by Royal Trince, the sire of Fair Queen and Queen Ideal, the two cham-
pions, dam a Maid of the Mist, a great milker. Here are a pair of young bulls
considerably above the average, particularly the latter; he is an extra good one,
thick-fleshed and very even. Besides thick-fleshed and very even. Besides
these there is one five-months-old, by Rosebud Champion, dam Juanita 10th;
he will make a show bull sure, and his
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

