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QULSTIONS AND ANSWTES.







GRowing btrawrerargs by the barrei Do any of your numerous readers grow
strawberries by the barrel plan? will they kindly give all information. What size of barrel; how far apart the
holes. sho bat holes; should top of barrel be covered;
also give fall, winter and spring treatalso give fall, winter and spring A. trat-
ment? Ans,-Experience of our readers is inwhols vs. Ground pasts barley for Which do you think is bettor for young
horses through the spring and summer worse on the farm, ground oats or whole oats?
2. Do you think barley meal mixed with 2. Do you think barley meal mixed with
bran too strong teed for a sow that tis
sucking young pigs ? Ans. -1 . Except in the case of old
horses, whose teeth aro uneven, whole oats may as well be given; but it is
good good practice to throw a quart or two
of bran in with the ration, which makem the horses chew their oats better. A little clean charf or cut hay will answer the same purpose, or in the absence of
either, one milght give ono-hald the feed of whole grain and one-half of ground thrown on top to insure more complete
 sort.
What is the best method of tunerting
comb foundation in the section boxes? Am troubled with sagging when I completely fill the section, and a good many
culls result. Ans.-Good foundation hung the "strong way" in sections does not sag appreclably, and the section should be completely filled. Foundation made by the woed
procoss sags least, but othera are good. procoss saga Tens, the otherg are , good
What I mean by
the strong way "may bo seen mbe sighting over an plece of Koundation horizontally $\begin{aligned} & \text { One way it } \\ & \text { looks flat, the other way it is ridged }\end{aligned}$ Sook Aat, the other way it is ridgec
like a washboard. Now, if you hame it in the sections. with these ridgea run-
ning up and dow. ning up and down, it does not stretah
or sag; but hung with the ridgea horlor sag; but hung with the rildges horl-
zontal, the heat of the hive and weight zontal, the heat of the hive and woight
of bees will take the ". kink ". out of it, and lot it down so as to buckle out at
the bottom and spoll the sections. This is a most important point which some
soc-called authoritiea refuse to admit. sochalled authoriter refuse to adme
They recommend makeshitte for filling the soction with foundation, which afro
not at all necessary if the foundation in not at all necessary it the foundation in
hung the strong way mokley pettit.

## incubator queries.

1. Can eggs be succesfully hetched
with dry heat in an incubator ?
II not. how should moisture be applied? 2. What degree of heat should be kept?
2. Should eggs be cooled down to 80 degrees overy day ?
Muskok.
Ans. -1 . Yees, under certain condilitons cubator. There are a great many prod cubator. There are a great many pros
and cons to the question, making it impossible to give e satisfactory categorical
answer.
Follow the answer. Follow the directions accomPanying your machi
3. 108 degrees.
4. They should be cooled, but not to
B0 degreces. In a warm room, they may 60 degreos. In a warm room, they may
be safely left out hall an hour or soi in a cold room on a cold day, leave them
a cot only while turning them. In this ant only while turning then. In this
outter, notice the habit of the hen.

While marrying a Walworth couple ro cently, the Rev, A. W. Jepson, the vicar
of st John's (who told the atory at an board sehool last night), pointed out to the bride, who refused to say "obey," that if she did not say the word there
would be no marrlage. ©h, that'g orl
.
 right," said the bridegroom.
abaht that when T get 'er 'ome.

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is now ready. The largest and handsomest Ca nadian catalogue, describes hundreds of new and standard varieties of Farm, Vegetable and Flower Seeds, etc. 1905 guide is

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TOTHIULTWROUGHT IRON WMEEI CO


## Che

Vol. XI
LONDON, ONT., and WINNIPEG, MAN., APRIL 13, 19 J5
No. 655

## EDITORIAL.

## Value of the Corn Plant

The rank and file of Canadian farmers have mertance and value of the Indian corn plant impory for farm stock To our neighbors of the United States it is the mainstay of their farming operations, and one of the main secrets of their success as a wealth-producing people. It is maize, more than any other factor, that gives them an advantage over us in the cattle markets of the mother country, to which we both cater It is true they have a larger area of country especially adapted to the growth of corn, owing to fident the time is coming when this great feeding crop will be grown in Canada on a much larger scale than at present. American farmers new flocking into our Northwest Provinces, and who ern States, are not without faith that when our prairie lands are generally cultivated and drained, and the earliest maturing varieties of corn are propagated, this crop will yet be successfully grown northward renerally come to properly appreciate the value of the clover plant as an improver of the con dition of the soil as well as a stock food, the combination of clover and corn in a short rotation of crops, will be generally acknowledged as essential to the most successful agriculture. With reasonable care in the selection of seed and cultivation there is no surer crop than corn, and
no other crop furnishes so great a bulk of grain no other crop furnishes so great a bulk of grain
and fodder combined. In the sections of the and fodder combined. In the sections of the
country where corn ripens before autumn frosts country where corn ripens before autumn frosts some and fattening food, and, fed in combination with oats or bran and clover, makes a fairly well-balanced ration for any class of stock, while the stalks may also be used to good advantage as fodder. But to the great majority of ou farmers the ensilaging of corn is the surest and safest method of handling the crop satisfactorily and is the plan most in favor and most likely to hee generally adopted. The necessary preparation of the land for a corn crop requires no great amount of time or labor; the cultivation is wel No other crop will thrive and grow so rapidly in hot, dry weather, and the harvesting comes ot a season when the other farm work is not pressing a grood foundation and anchored to a building to prevent blowing over, will serve the purpose ad-
mirably for a good many years; while a cement silo, though costing more at first, is good for a lifetime. The crop once in the silo, is easy of cess in all kinds of weather, and if the corn in "लw matured before cutting the silage will b sweet, palatable and nutritious, giving good IV cattle, when fed in combination with roughar rated foods in the finishing pericd
In the average summer season there comes fe, when, owing to drouth, pastures fail, when the lose flesh and shrink in their milk supplytime when supplemental food is needed, in order avoid loss in the income from a hern, an be so well met as by having a small silo for Minter feeding. With this in view ther than on
large one, as the larger surface exposed in warm weather and when less of the silage is being used, esults in loss from exposure to atmosphere. With and the flosh feeding cattle maintained throush no a period of drouth-an important considerdion be realized.
To those who have not used ensilage, it is safe to advise the growing of corn and making provision for a silo or two during the coming
summer. Study the question of the most suit able variety of corn for your section, test you seed before planting, read or enquire regarding the best methods of cultivation, and join the pro ession successtu catcle fecders, as his he sheet anchor of suceessarming in most

The King of Italy's Co-operative Proj ect.
areat ninds continue to address themselves to fimilar problems. Canadian orchardists are busy ive growth the details of the successul co-opera McCredie is talking to the farmers of thi ountry through the "Farmer's Advocate" of the subject of co-operation, and his contrioution in this issue is likely to set people thinking. Aid Us that ©ur friend, Victor Emmanuel ]II. Kinv of Italy, desires publicity given to his proposal for he establishment of an International Chamb of Agriculture, which is to bo largely co-operative in its plan and purpose. The preliminary congress is to be held in Rome in May next. The King believes that much benefit would be derived rom " an international institution absolurely on-political in its aims, which would have be fore it the conditions orld publish periodical an nouncements of " the quantity and quality of the councements in hand." and would thereby facilitate pro duction of needed crops, and help to the attain ment of better prices. "This institution, acting n unison with the various national associations already constituted for similar purposes, would also furnish reliable information as to the d mand and supply of agricutural lator in nifter nt quarters of the globe; "would promote hose agreements nccessary and domestic recrels. and, finally, " would exercise a timely influence n the development of societies for rural co-oper tion, for agricultural insurance, and for agrarian

The precise form of this chamber and its place of permanency necessarily remain to be developed, but the design comprises two chambers, one in which the agricultural interests of each country hall be represented in proportion to their magn ude, by representatives of agricultural organiza hons, the other in the appointments so be mad This, as it will be seen in a measure reproduces our own House of Commons and Senate, of which someone has observed that the Senate served the purpose of saucer to the House's cup-overhot resolutions being poured therein to cool. In providing for the ature "ways and means, or the " sinews of war," it is proposed that expenditures might be met by, 1st, appropriations from the nations, in
proportion to representation ; 2nd, charges for bulletin announcements and display of samples and 3 rd in the event of exchenges being adopt and 3rd, in the event of exchanges being adopted
by a commission on sales.

Boiled down, it means International, National and Local organization. It looks like a big proj ness of the Italian with the optimism and energy of comparative youth, and he and many others with him in this movement believe that the disunited individual element of the agricultural masses scattered throughout the world can thus co-operate to their great advantage, especially in their defence against commercial and transportation trusts.

## Governmental Handling of Public Utili-

 ties.In the House of Commons a short time ago the question of "Rural Delivery of Mail" was debated. The Postmaster-General expressed himself as opposed to the scheme in Canada, on the score of expense, quoted the U, S. experiment as a costly one, and incidentally expressed the hope that the telephone system would be extended to farmers, and possibly come under Government control. At his request a special committee was appointed to investigate and report upon the subject. Two M. P.'s (Lambton and Wert Kent) pointed out that the farmers of Canada are askto study the cost of such mail delivery in the $\mathrm{U} . \mathrm{S}$, and for that purpose we cite from a roliable U. S. contemporary as follows

Between June 30, 1904, the end of the fiscal year, and March 1, 1905, the post office department established 5,432 rural free mall delivery routes. This made the total number of such routes 29,998 . The State having the most rural routes is Illinois, which had on March 1, 2,450 an increase since June 30, 1904, of 326 . Ohio
had 2,161 , and Iowa 2,048 .
'Illinois' lead as a rural-maill-delivery State is partly due to the zeal and activity shown by interests of their constituents, but it is mainly owing to conditions existing in the agricultural
sections. It is essential to the success of rural sections. It is essential to the success of rural shall be thickly settled. It would fail in Arizona or New Mexico, because a carrier might have to
ride all day to deliver mail at one or two ranchride all day to deliver mail at one or two ranch-
es. The rural districts of Illinois, on the other hand, have become so thickly populated that a carrier may deliver mail daily to one or two hun
dred families. The post office department re dred families. The post office department re quires roads on the rural routes to be kept in
good condition. The highways of Illinois, while generally far from perfect, are, as a whole, bette than those of many other, States.
Government $\$ 7,000,000$ annually more than it eavernment $\$ 7,000,000$ annually more than it chronic excess of postal expenditures over receipts is increased $\$ 25$ a year. Nevertheless, publi,
opinion sustains the post office department opinion sustains the post omce department pay the Government financlally, but it is earning large dividends as a social investment. It has
done much to ameliorate the loneliness of farm done much to ameliorate the
life. Enabling the farmer,'s family to get letters newspapers and magazines as regularly and almos as quickly as persons living in cities, it tend
powerfully to stimulate and broaden the national intelligence.
From our own experience, we would suggest that the Post Office Department improve on thei present methods, preparatory to looking for resh avenues of activity.
While the theory of Govermental control of public utilities is a popular one, it is well to re Nect whether in the practical working of such heory, the scheme is to be preferred former case too frequently satisfled in the hope of cheape service. To make a comparison we cite the $\mathrm{C}_{4}$
the Farmer's Advocate
and Home Magazine.
the leading agricultural journal in the DOMINION.
THE William Weld company (Limated).
Two Distinct Publications-EAstrrn and Westren
Eastrrn Offick:
Carling Strbet, london, Ont.


> Winnipge, Manitoba. Branch Officz: Caloary, Alabrta, N.-W. T. Lowdon (England) Orfick:
W. W. Chapman. Agent, Mowbray House, Norfolk Strect,
London, W. C., England. London, W. C., England.
John weld, Managrr.

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$=-\quad$ London, CanadA. graphs; the latter costs about half the figure of the former for a telegram of ten words, but the Government telegraph system makes five mistakes to the Company's one ; and in business one mistake may lose more than the cost of one's teleservice the inertia is appalling, taking the service as a whole, either in Britain or Canada. A good man's efforts are either so hampered that his efficiency is destroyed, or he quits the fight against departmental lethargy in disgust. There is also another thing to consider, and it is that the political appointee quite frequently gets to think that he is not paid enough when he takes his present and past services to the Government into consideration, and if he does not get the figure he values his serwes at he balks, and the publi pays the piper. To our mind, likely to be satis
trol of public utilities is not likely factory until appointments to the civil servic the system pretty commonly used, namely, political preferment, which sometimes lands a good
man into the country's service, but more often an indifferent public servant.

## Points Right.

The compass you sent I recei
am well pleased with it; also the
vocate" is a leader in its class. Hoping may be long spared to publish so valuath
paper. paper.

How to be Up-to-date. I am still taking your paper, and am fully con
vinced it is the best agricultural paper in Canada and do not believe it is surpassed, perhaps nninced that no up-to-date farmer can aff
get along without its presence in the home. readily congratulate you on its weekly issue.

Instances of Successful Co-operation: IV
I have already mentioned the Canadiun cheese in
dustry as one proving the advantages of farmers co operating, and an editorial note in the previous article well stated that, though many of our cheese factories
bad more recently been taken over by private enterwell stated that, though many of our cheese factories
had more recently been taken over by private enter-
prise, their success had been achieved as co-perative prise, their success had been achieved as co-operativy
concerns. In view of what has been maintaincd it these articles as to the right principles and methods of
co-operation, it may be well to point out that in the cheese industry there is not the same need for a specific guarantee of milk supply by members; as milk, unlike
live animals or other farm products, cannot easily be live animals or other farm products, cannot easily be
sold except to the nearest factory in most cases. The capital required was obtained from members instead of by loans. Without the guarantee as to care of animal
and milk, which is universal in the creamery associaand milk, which is universal in the creamery associa-
tions of Denmark, our factories, as we all know, have had the greatest difficulty in securing milk of the best quality, and, in consequence, our national cheese prod
uct has not been as uniformly excellent uct has not been as uniformly excellent as it should be.
The same is very true of our creamery butter, and for The same is very true of our creamery butter, and for
the same reasons. The Dairymen's Associations, how-
over, are overcoming these difficulties in another way, over, are overcoming these difficulties in another way,
and it is noteworthy that their tendency is distinctly and it is noteworthy that their tendency is distinctly
towards co-operation in principle, and away from the spirit of Government compulsion.
Roaders of the .. Farmeri's ly familiar of the "Farmer's Advocate" are sufficientthe Patrons of Industry, so that I nedd only mention
the binder twine factory and salt supply enternises begun under their auspices, and continued with entire
success, breating and keeping down piratical couthine success, breahing and keeping down pirati-al comp,ines
in both those directions. As in the cheese industry, conditions peculiar to these enterprises made it easy for
them tor succeed in spite of private competition, and spite of the fact that they were not owned, organized or managed according to co-operative principles and
methods. They are simply limited liatility methods. They are simply limited liatility concerns,
and the fact that a large number of thir shares is
held by farmers does not make the distinction
That they have gained practically the same results
as truly co-operative organization would have serured as truly co-operative organization would have securered
is due chiefly to the fact that the owners and man-
agers were actuated at heart by the agers were actuated at heart by the stririt and prin-
ciples of co-operation. But they might, for their own
benent, have done otherwise, and the farmer consumers
could not havo could not have done anything to control their policy or
actions. That these owners and managers have thus
operated according to the spirit of co-operation only operated according to
proves that farmers
and all for each
and all for each,", can work together, "each for all,
So much, then, for co-operative industrics. But
what the farmers produce, separately or oointly, must
be sold; and what is sold must be carried (in our cuse be sold, and what is sold must be carried (in our case
most of it a long distance) to market. The amount
of farm products sold by Canadian farmers is enormous,
and it might with of farm products sold by Canadian farmers is enormous,
and it might with great profit be done co-operatively,
It has beenn done co-operatively abroad. Denmark has its associations for spale and transpoartation of but
ter, bacon, eggs, horses, etc. Germany has nearly 2 . ter, bacon, eggs, horses, etc. Germany has nearly 2,
500 associations for the same purposes. France and
Belglum are similarly provided. By thus carrying their Belplum are similarly provided. By thus carrying their
products to market, insuring them in transit them
selves, the Danish associations actually save onequarter of the price received on the British market The west-
ern farmers of the United Statcs are rapidly increasing
their already numerous associations for sale of products numerous ansociations for co operative of supplies. Towa alone
has over 200 of these local own elevators, dealing in lumber., coal, ewning their
handling their grain and live stock in comlinatios Rockwood association nlone handles over $\$$ oron, (trou
worth of goods annually
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
perity are together absent, but I shall give an instance
or iwo of importance, to show that the intent to co or iwo of importance, to show that the intent to iples and methods emphasized herein, may result $i$ failure of attempted co-operation With the exception of one co-operative bacon With the exception of one co-operative bacon fac
ory, established in a Danish district where there were not hogs enough to keep it going, there is no discoverable instance in Europe where co-operation has failed. For failures we must, unfortunately, seek at home
The (so-called) Co-operative Bacon Factory at Palmwe ston will at once occur to everyone. This factory was organized, a a was the binder twine factory at Brantford, as a limited liability company, with shares held among the farmers
Brantford a consiceran
Company succeeded, while the Palmerston Company failed. The reason is easily seen.
When the farmers'
When the farmers' company started business, the private packers-who, be sure, understood long ago the
dangers to them of co-operation-went to the farmers with increased prices for hogs. They went to the many farmers who didn't own shares in the factory, and also to the few who did. They offered such prices that the new factory lost one dollar on every hog they handled,
and the new factory soon quit. It was very simple.
The farmer who had $\$ 10$ in bacon-factury shares got The farmer who had $\$ 10$ in bacon-factury shares got his cash $\$ 10-$ in increased profits on one batch of hogs
sold in Toronto, and could afford just then to see the sold in Toronto, and could afford just then to see the
shares worthless. But the fact is, he didn't expect the shares worthless. But the fact is, he didn't expect the
factory to fail because HE sold his hogs to the faciactory to fail because 1 HE sold his hogs to the fac-
tory's competitors. He thought the other shareholders
and the farmers and the farmers generally would hold the factory up. the property of a co-operative association, every membaised which had given a guarantee to sell it every hog ties if it failed, you may be sure it woulld the liabilgest and most succossful bacon-curing factory in Can ada to-day. More, the complaint of one farmer, that he doesn't get fair prices for selects, and the content fed hogs, would be settled for good. . The ten per cent. ommission every buyer of hogs takes out of the farmer would go to the farmer's bank account, along with enHored profits in other respects. As it is, we are deanying it cannot be done- All that is nonsense. It An lie done if the farmers do it themselves.
Another instance of so-called co-operative farmers' Mdustry is the "Farmers' Co-operative Harvesting Machine Co.," at Whitby. It is, perhaps, too soon yet
to decide whether it is a success or a failure. That is in dispute at present among the directors, one of whom is a prominest Toronto fineancier. But it cer-
tainly is not co-operative, and so far as can be learned trinly is not co-operative, and so far as can be learned
most of the shares are not held hy farmers. What oncerns us -the farmers-is that the farmers should binders, but all their implements. Truly or organized their ording to the methods and principles outlined in these firms who are already in the business. The following articles will show how the Canadian farmer can and should accomplish this and other objiects by co-operative
organization.

## What Price for a Herd-header?

 The ahove question, often asked himself by the heginner in pure-breds, was suggested to us a Hort atme ago hy a pure-bred catle man, who to head his herd, and the price such should cost. The bull in question, an animal of one of the ijecf breeds, cost somewhere between $\$ 75$ and $\$ 125$, and was at the head of a herd numbering some wenty or more breeding females. The said bull Was neither a good representative of the breed anded either for type or masculinity), nor of the heef type, and had he been altered, would have hreeding females in the herd could safely ine valued on the average at $\$ 100$. What, then, should the breeder expect to pay for a fit bull to head hisherd, two things being steadily in mind, viz., that the bull is half the herd, and that the greatest and quickest improvement in the quality of a hurd can be made by the use of a first-class male? (iiv.n a herd of twenty mature breeding females,
at an average of $\$ 100$ apiece, no person can reasan Tharacter, either of sex or brecd, to render him
the service such a bull should, for a sum nuch the survice such a bull should, for a sum nuch
himow $\$ 3$, and should the prepared to go doulle that price for a superior animal rather than take vidnality mediocre brerding and medium indiNat will wet calves if mated to heall sexually (ii) Winte thringing is in the together of aneer's art mature Wh. . speringing Fogether of animals to muli-
Fif the breeder look solely from the Nan thely from the stander looks at -uat ...nnond himsolf breeding pure-breds, and 2. 1!....en that man will find it pay him Num... anst toll he can afford, and he
using inferior bulls, and are thus hurting thenseives a bad example to beginners at the business, and also to the farmer seeking to improve his
rade stock; and by flooding the pure-brud min grade stock; and by flooding the pure-bred mar-
ket with a lot of inferior stock, they lower the prices all round.

## HORSES.

The Cosmopolitan Hackney "One great merit possessed by the Hackncy
horse," says a writer in the Lordon Live-stock
Journal, "is that he appears able to flourish ander almost any climate, and upon almost any able of transmitting his leading characteristics to mares of every breed. This faculty was rendered
obvious by what was to be seen at the recent London Show, where first-rate specimens of the oreed were forthcoming from all parts and dis
ricts of the United Kingdom ; and if a proof of the toughness of the Hackney were required, it is
seen in the instance of the champion stallion, seen in the instance of the champion stallion,
which left this country for Amcrica at a very early returned home to carry off the highest honors a the Society's show.
" We all learn, too, at least all of us do who
not permit our better judginent to be blinded do not permit our better judginent to be blinded
by unreasonable prejudice against the horse, what he Hackney has accomplished on the Continent, and also the great value that is placed upon his services by some great breeders of South Ameri-
a, whilst his recent triumph in the United States, after many years of vicissitudcs, must have con-
vinced every unbiased mind that the Hackney beongs to a variety which cannot be put down.
"The prepotency of the Hackney stallion is
nother point in his favor, for even his greatest enemies admit this fact. Indeed, one of the favorite charges that I have heard brought against
him is that once you ret his blood into a strain him is that, once you get his blood into a strain,
you can never get it out again. This being the
case, the question may be asked. © How can horsereeders do better by their, studs than by raising he best type of Hackney? 'The breed flourishes
wherever it is piven a fair chance, and it breeds true, than this, can there be a better recommendation for any horse? No doubt the cause of
the Hackney has been injured and he has gained the Hackney has been injured, and he has gained
enemies in consequence of the injudicious attempts which have been made to have him accepted as a riding horse. In the old pre-railway days the Hackney was certainly used for riding purposes, un beneath the bridges since the bygone race of British yeomen used to ride to market on their Hackneys, with their wives behind them on pil-
lions. The exigencies of modern tastes require omething different from the ordinary Hackney and even if it is conceded, for the sake of argument, that there are two types of the breed, it is unfortunate for the horse that so many of the
harness variety are to be seen in the classes made or Hackneys in saddle.
"The greatest of all the Hackney character-
stics-action-is all in the direction of work in ather, for there is no honse in the world that
an move like he does, and hence the possibilities which lie before the man who forms a stud with the object of breeding for the market of
one thing he can be certain, provided that he elects his stock with judgment, and this is that reeds of horses. In spite, too, of the incressing probability of the motor-car, there is a strong the fate of the bicycle before long, and thereby assuming a definite position more as a vehicle of
commerce than that of a rich man's toy. When commerce than that of a rich man's toy. When kreat as it is at present, will be increased, and
hen Hackney breeders who have declined to lose ." The Hackney is the horse of all others for he amateur horse-breeder to exercise his talents upom, for this variety flourishes in every district, is long-lived, good constitutioned, kindly in dis-
position, a reliable breeder if properly mated, and above all, invariably salable if a good ine,
any breed of horse claim more than this?

## Saved the Colt.

Finclosed please find the sum of $\$ 1.50$ for my
cnewal. We find every dopartment of thi cnewal. We find every dopartment "M
Farmer's Advocate and Home Magazine" "x-
Mumely interesting and helpful. Trecall one in
tance in many of its usefulness during this last tance in many of its usefulness curing
"ar, when an article "by "Whip "enatled us to
reat successfully a sick. colt. We wish the reat successfully a sick. colt.
Farmer's Advorate ", continued
Oxforcess
O. Ho. Ont.

The "Own Brother" Question.
week a handful of ©Clauber's salts. Sulphu opens the pores of the skin. He stated that he had been feeding six draft stallions for a week on 300 pounds bran and 300 pounds oats,
with hay. lurink the season he advises washing the horse out occasionally, say about once a week, with warm water and castule soap. He had no faith in stock fouds or condiments, which, tho 1 ,
they might add bloom, afficted injuriously the procreative faculty. A teacupful of flaxseed procreate could often be fed to advanta, of during the breeding season. The grain ration he considered
better fed with a couple handulus of chaffed hav.

## Breeding Trotting Horses.

The first principle of breeding is to use as wellthese mares with the best bred and most success ful sires within reach. It will not always be possible to produce sound and speedy colts, but greater than where scrub sires and scrub mares are used. It does not pay to use inferior animals for breeding purposes, and no breeder can hope to succeed who uses this class of animals.
There is always a demand for trotting-bred horses and right now there is a buyer for every sound, useful light-harness horse, and I do not suppose that there is a reador who does not know that buyers are sco ang everys to buy willing and The trouble with many breeders is that they attempt to breed horses on too large a scale, and No farmer or small breeder should keep over a half dozen mares, and these mares should be made to earn their keep, at least, by being used of the ordinary largest breeding farms in Indiana a few days ago, and saw some thirty-flve brood mares in idleness which could just as well have been doing the work of a score or more of work horses good pedigree is no reason why she should be kept in idleness, and the sooner the farmers learn this fact, the bether it will be.-[J. M. McCart

## Over-fat Stallions.

An exchange, commenting upon the tendency with fat, at the expense of the development of muscular force, says :
"It should become apparent at a glance that he modern methods of feeding and fitting many highly detrimental. Work, the product of constitutional vigor, is the ultimate object in the roduction of the draft horse. Through selection, environment furnishing adequate nutrition, size and weight have been developed and made transat in such animals is a positive disadvantage for which not a sensible argument can be advanced. Feeding for the intentional production
of fat is, therefore to be denounced. The art of of fat is, therefore to be denounced. The art of
the feeder should be devoted to the development of bone and muscle, that added ability for heavy work, not to the rounding out of the body with fat, which means, inevitably, fatty degeneration
of the vital organs. The forcing process by thich many draft stallions are made to attain great weights, is injuring the breeding business proving wholly or partially impotent for stallions proving wholly or partially impotent, for so many
foals coming into the world crooked and weak, for so many grade colts from suitable mares failing to attain draft horse proportions. Deprive proves to be deficient in the width and depth of body, and development of muscle and bone that are the true attributes of the ideal drafter. Fat does not impart strength for labor. Its presence
indicates weakeness rather than strength. The fat stallion is a burden unto himself, and a dis appointment to his buyer. Besides this he proves fallure on the stand, and his colts, few as they usually ar
character.
is for sires the need of our draft-horse induatry is for sires that are great in development of bone and muscle, and possessed of constitutional vigo In their place we are often offered stallions that have been fed on sloppy food, doped with drugs made to seem powerful and ponderous, but rend-
ered actually weak by such methods. Set one of these pampered beasts to work and he speedily loses three or four hundred pounds of fat, and stallions cannot beget real draft horses. Fhere are others, and they are doing kood service, but are scarce. When found they are prepotent and
worth the high figures now being coaxed out worth the high figures now being coaxed out o
farm companies for fattened draft stallions as we have described. Taken from the plowharness. the draft stallion begets a full comple ment of lusty, robust colts from his mares. He
C. D. McGilvray, V. S., M. D. V.

## A Good Appointment. <br> nt.

In the Hansard report of March 10, the Minis ter of Agriculture, in answer to a question by
W. J. Roche, M. P., stated that the Veterinary Branch has practically taken charge of all the toba. The newly-appointed veterinarian in charge the chief veterinary inspector for Manitoba, is
D. McGilvray, of Binscarth, Man., well known to readers of the F'armer's Advocate by hi a native of Scotland, a country from which come many good horsemen and veterinarians, and grad ronto, some years aro winning the gold med al and otherwise distinguishing himself. Later he spent a winter at the McKillop College, and took
the degree of Doctor of Veterinary Medicine (M in his own locality, and has served as judge at horses, and as a lecturer for the Territorial De monstrating at the I, ive-stock Conventions in

Fitting Stallions for the Season
A subseriber asks information on the proper
d
for at draft stallion whice fiting him for if any, and whether during the breeding seacon a tion was refurred to an experienced stallion man, to ho. oats and hran three times a day, with a hay. consisting. preferatly, of one-third or one half clover: five or, six miles exprcise a day, an
an intelligent groom. If the horse seems to
out of condition dissolve in the mash twice
 a study of breeding is the difference in the breed ing-on capacity shown by brothers. Why ar
horse shouid be a really great sire, and an own brother with equal opportunities should never get rule seems to affiord a reasonable solution. Ye there are many instances in. which just that state ence is to be found in two sires, both of which attained greatness in a degree, than those tio
sons of George Wilkes and Alma Mater, Alcyone and Alcantara. Alcyone died when he was ten
years old, while Alcantara lived to te nearly three
times that ace record, and was, if anything, placed ahead of his tainly had as good opportunitics as Alcyone was accorded while the latter horse was alive, and
aiter the death of Alcyone the older brother had The 2.10 list however shows Alcyone ever had tor of extreme speed Alcone far outranks hi
older and longer-lived brother. No less than 2.10 or bettrotters and pacers with records his descendants in the direct male line, while sixer, the sons and daughters of Alcyone have pro-
duced 483 standard performers, as against 345 produced by the sons and daughters of Alcantara
in spite of the latter horse's lons life and ex tended opportunities. Just why one of thrse pair er than the other, is difficult to say.-[Horse

The Live stock World is firmly of the apinion
hat not in the time of men now living will horses ver sell so low as they did durine the great de-
 pampered, plump, pretty, polished stallion is teasing him, and if his horns are removed it is no nerely posing as something he is not. Fat makes hould he beget a foal, it is likely to suffer by reason of the unnatural and unhealthy condition of These
" Thire
These are plain words, but they are true
and necessary. It is time to wake up to their truth and to seek the improvement of our draft horses by selection of true draft sires and mares,
and not by the mating of pampered animals that, and not by the mating of pampered animals that,
deprived of their load of fat, prove to be lacking in the requisite frame development of the true Iraft horse.

## STOCK.

## Senate Vs. Embargo

On motion of Hon. James McMullen, the Cana dian Senate, on April 6th, adopted the following
resolutions: ". Resolved, that the Senate of perial Government to the fact that Canadian herds are now, and have becn for many years past, free from those particular diseases against
which the embargo has been imposed. That this has been repeatedly admitted by the Imperial uthorities themselves. That, under the circumtances, the continued prohibition of the importation of Canadian cattle on the pretext that there
is danger of the spread of those particular dis ases among the British herds, is an unjust imputation and should be repealed. That the Senperial act based thereon should be repealed : that a copy of this resolution be transmitted the Honorable the President of the Board of England.

Principal Dewar on Eradicating Tuber culosis.
Principal Dewar, of the Raval (Dick) Veterin ary College, Edinburgh, in a recent address be tuberculosis can be all but extinguished in a pedibe characterized as ruinous. The fact that the ork has been done, he stated, is sufficient to 0 do it. The disease can be all but stamped out by a sensible use of tuberculin, separation
of the reacting from the non-reacting cows and the careful observance of sound principles in the or that carried out at the great breeding establishment of Hon. W. C. Edwards, at Rockland, Ont., with which readers of the "Furmer's Advo-
cate", are familiar. Commenting on Principal Dewar's address, the Scottish Farmer sing " Great Britain will not always be able to bluff the stock breeders trade, it is a suicidal business to go on breedine stock under the conditions favoralle to the spread of the disease, when means for its control and
restriction lie ready to the breeder's restriction lie ready to the breeder's hands. Prin-
cipal Dewar's words of counsel, advice and warning should he laid to heart by the stock breedirs

## Against Dehorning

$$
\begin{aligned}
& \begin{array}{l}
\text { arce in favor of dchorning, and have read simi } \\
\text { lar articles in } \\
\text { opinion, instead of the Govere. Now. in my }
\end{array} \\
& \text { law, as suggested by the writer, requiring that }
\end{aligned}
$$

cure, he will still be cross, and if he gets a man
down in a corner he can push just as hard and down in a corner he can push just as hard
as surely finish him as he could with horns.
Wentworth Co., Ont.

## Two Kinds of Branks.

A short time ago we were asked for a descrip consisting partly of irom, for handling unruly animals. The accompanying cuts illustrate two kinds of branks.
No. 1 is made of round iron, bent and welded
by a blacksmith, as shown in cut by a blacksmith, as shown in cut. The ring fit
over the muzzle, taking the place of the corre sponding piece of rope or strap in the ordinary

halter. At D and E a strap is attached, passing over the head behind the ears. As the shank $B$ projects above the muzzle, a slight duwnward
pull on the rope attached to the ring $\Lambda$, gives a leverage on the lower jaw.
No. 2 is made of flat iron
; hinged at in the other brank, the headstrap is a t ta passes through $B$. Pulling on the at $\mathbb{C}$ and compression on the branches of the lowe cause

## Another Sheep Rack

## Bring interested in the helps given in the columns your valuable farm paper. I enclose you

 if a shour valuable farm paper, I enclose you a drawingandeding rack, which we have been using for about 20 years. The one that we have is 16 fect
long, and as it is placed in the center of pen the shecep Ong, and as it is placed in the center of pen the shece,
an get around it, and it will accommodate from 15 to 18 sheep to foed around it. From the hayloft overhead, at one end of rack we have a chute which rest one end on the raak and the other a ttached to side ..f
shed. This is arranged so that it will contnin

 compartments, by the use of doors or slides at each
end of rack. Cur shed is 24 feet witle, which leaves
atout 4 feet at each end of rack. I enjoy your valu-
able farm paper, and in renewing my subscription I
$\qquad$


board six inches wide nailed to scantling D. ${ }^{\text {D }}$ This is nailed to the inside of the frame, and the face of nches aphree or four inch strips, about three or four together to prevent the are straight and close enough hrough among the feed, and also keeps the seeds and dirt from getting among the wool. The trough marked is attached after the slats are put on, and besides Aoing for feeding roots in, catches some of the finer
lover heads. Instead of having the scantling extend ing beiow the rack or feeding troughs, the rack could be placed on blocks at whatever height desired. The Idvantage of this rack is that it answers the purpose of a hay ns well as a root or grain rack. The hay or other fodder is not above the sheep, as in the case of a rack narrower at the bottom than at the top,
then with the shute at the end the hay is handy

Encourage the Linen and Wool Indus tries.
Sir,-I have before me copies of the Imports and Sir,-1 have before me copies of the Imports and
Exports (Customs) for three years, viz., 1901, 1902 and 1963, and I find that the woollen manufacturers of
this country import wool from foreign countries to the this country import wool from foreign countries to th
following extent:
 $26,880,045 \mathrm{lbs}$ Or an average of $8,960,015 \mathrm{lbs}$. per annum, and Thry also imported rags, principally from England,
rance and Germany, for the same years

$\qquad$ Or equivalent to $126,287,392 \mathrm{lbs}$ in three years, an
verage of over $42.096,000$ lbs. per annum, also free of duty. $\begin{aligned} & \text { nd of shoddy goods, imported likely by the whe }\end{aligned}$ In A. D. 1901, page 181
In A . . 190. In A. D. 1903 , page $259 \ldots \ldots \ldots \ldots . . \quad 116,385$ yards Total .................................. 362,970 yards. (il) ert to a duty of 20 per cent. We. do not export Iny shoddy goods, so the inference might be drawn that his country, are made into clothing for the Canadin dited besitles the quantity of shoddy goods imported Duminioneto all sold and worn by the people of this control over the quantity of rags picked country has no o house, consequently I cannot account for the amouse er cight but from the imports there is an average the Dominion, besides per head for the population If shoddy goods imported, all worn and used up auntity Canadian consumer. rugs from those foreign countries to compete with our wool, and our Dominion Minister of Agriculture gives ne to understand (this is a copy of his reply). March
1 st, 1905 . In regard to the matter of prohibiting the importation of rars for the matter of prohibiting nt the present time to deal with it in the way you from being made by woollen manufacturers, it would b archin $n$ blow at the industry that it would really hurt We prohibit. of (Sgd.) SIDNEY FISHER. We prohibit the importation of oleomargarine, but
terine, or other substitute for butter (to protect th trrine, of other substitute for butter (to protect tho
farm industry); customs tarin, 1897, schedule C., section
6.39) Would 639. Would it not be advisable to prohibit the manufacture of rags also, and prohilit their importation, o The farmers of this country are quite willing to cumpete agalnst any crude fiber, such as cotton, linen,
etc, but those rags, purchased tion of one cent per pound. should not be permitted They are a menace to the health of an aspiring nation, spreading contagious diseases, etc.; besides
shoddy goords made from them are a fraud on the pur-
 dealing in raps, directly or indirectly, then the farmer
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
of wool they wante
an thicn whatever on the subject. What sort ver $8,000,000$ pounds per annum? Could not our larmers grow it if educated as to the quality? I would like an answer. In Don our Domino Government, the water powers of this country will be harnessed by linen mills, addi facturers can say grown in Canada and made in Canada, an improvement on their present motto (made in Cane
ada). Pure food to each and clothing from pure filber only should b
this Dominion. his Dominion.
Russell Co., o

## Re the Scrub Bull

We have heard and read a great deal lately about the scrub bull. F'armers and feeders esportance of keeping cattle bred only from purebred bulls of good type. But is it not surprising how many scrub bulls are yet kept in this fair country of ours? we can count several just in our own community. Just think of a farmer in this age keeping a $\$ 15$ or $\$ 20$ bull jear are hindrance to progress, and how a man will by little enterprise, keep a whole neighborhood back. low are we going to remedy this? Some say make those who keep a bull not registered pay a
license fee or fine of $\$ 15$ or $\$ 20$ a year ; others suggest something else. But, do you know, I matters, if they would read more good agricultural papers and become more enlightencd, the re-
sults would be quite different. Only a very few attend the Farmers' Institute mielin, s, and only a small percentage take a real good farm paper,
and consequently many are not posted in these and consequently many are not posted in these
things. In conversation with a big farmer the other day, I said, "Do you take the 'Farmer's a farm journal printed in the United States that别 And this man has boys who would relich good farm paper. I honestly believe if our Gov-, ernment would place the "Farmer's Advocate
in every home of those who will not take it, wovery home of those who wive this country a lift that would be felt ome into our homes every week, saying, "Wake up" ou must try and do better!". And the "Farm practical budget of information, at a cost of les han three cents a week.

Rape as a Food for Pigs.
ome important conctusions which have lieen rrived at as a result of experiments carried out ductions drawn were
That with pigs from four to ten months old apresenting the various breeds of swine, an acr when combined with a ration of corn and shorts,
cquivalent to 2,436 pounds of a mixture of these rain feeds.
That rape is a better green food for growing
pigs than good clover pasture, the pirs fed upon higs than good clover pasture, the pirs the rape having made, on the averake, than was re-
of gain on 33.5 pounds less grain
quired by the pigs fed upon clover pasture. quired by the pigs fed upon chave better :qpe-
That pigs are more thrifty, have beter when supplied with a rape pasture in conjunctio with their grain feed, than when fed on grain
alone. That rape is the most satisfactory and cheap-
cst green feed for pigs that we have fed.
That rape should be sown in drills 30 inches That rape should be sown in drills 30 inches
apart, to facilitate the stirring of the ground and raten off
The pigs should not be turned upon a lape
pasture until the plants are at least 12 to 14 pasture until the plants are at least 12 to 14
nches high, and that they should be prevented rom rooting while in the rape field. That rape is not a satisfactory feed when fed
alone, when it is desired to have any live weicht alone, when it is desired to have any foug it has been found that they will just about maintain themselves without
loss of weight on this feed alone.
"Farmer's Advocate " in Wisconsin.
Enclosed please find \$1.50, for which please ex and my subscription to Decernber meh and the fal hat it comes from beyond the line that separates
your country from mine serves to make it all th more interesting. Wishing you continued success
W. W. WINTER.

Questions for Mr. Fawcett.
 Fawcett Grisdale has said about cost of producing a pound of beef on a steer from two to three years of age. Mr. Fawcett might tell us if he ever calculated what it cost him to produce such a pound of beef. I he did not, how can he say that Prof. Grisdale
is wrong ? Mr. Fawcett mipht also let us know how many Mr. Fawcett might also let us know ing localities and names, have made money in producing beef in the conditions spoken about by Prof. Grisdale. It would be interesting to know if these men did not make money with some other line of their live stock or farming operations, and lose money putting on a certain number of pounds
of beef on a two-year-old stecr. If Mr. Fawcett calculates the crops 1aised on the farm at cost price, he loses what he could have made by selling these crops; and if Mr. Fawcett calculates the
crops raised on the farm at the price he could crops raised on the farm at the price he could
have sold them, I believe he will find out that
Prof. Grisdale is not far out. Is Mr. Fawcett ready to send a two-ycar-old steen to one of the Maritime Provinces Experimental Farms, and let till he is three years old? If he is we could
see what it costs to produce a pound of beef on see what it costs to produce a pound of beef on
a three-year-old steer in the Maritine Provinces LANGELIER.

## Wensleydale She ep.

These appear to be the modern form of an old brced, onec known as feeswaters. They are said generaloscly allied to the lelcesters, as thelr for them that hey well os the old Lincoluc were employed by Bakewell in his work of improvement of the Leicester. Thise long-woolle. the country from Yorkshire on the Nirth-east, to Devon and Somersct on the South-west, and to have extended through Nottingham, Leicester, joininy worcestershire, Gloucestershie ond a broad band in the Midlands and in the Northeastern and South-western counties of England, chalk formation, south of which the Down lreeds Chiefly have their home, and north of which the
hardier mountain breeds are to be found. The Wensleydale long-wools took their, name aloout the time the Yorkshire Agricultural Society commenced giving prizes for them, lieing more extensively cultivated in Wensleydale than
in other parts. The present type has long l wen fixed, and no one who has achieved any success as


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ears, ant on the belly and scrotum . In the cla cultural Socierty Show in 1903 and 1 1904 AgriWensleydale wool won over anl competiturs, Inwool, Cotswold, Romney Marsh, Devon Longunsurpassed for hardiness and strength of constitution, and that the quality of their mutton cannot be excelled, being noted for the absence of
patchiness or excess of fat. The Wen leydale faced Sheep Breeders. Associntion and Flockliook Society is incorporated, Mr. John A. Willis, Manor House, Carperby, being Honorary Sceretary, breed. The Royal Agricultural Suciety of ting land gives a full prize-list for Wensleydales, and chere aro usually about as many exhibitors in this It is strange that this excellent brecd has not been introduced into Canada, where its merits There seem to entitle it to a prominent place. there would seem to be a promising fleld for some
enterprising breeder to establish a flock of Wensleydales in this country.

## Molasses for Live Stock.

An Old Country exchange has the following to say regarding the British child's bread-appetizer and " sweetener, Some years when the use of these sub stances for stock-feeding purposes was first introduced, treacle was very largely employed, and in some cases with such lack of discrimination as to be productive of injurious results, for it was found that when given in quantity to breeding animals it had the effect of injuriously affecting their procreative powers. On account of this, a reaction against the use of molasses for stock of a number of years foods of this kind labored under a heavy handicap, because of the prejudice generallv entertained against them. For fattening stock the objection, which held good in the case
of the breeding animals, did not apply and the of the breeding animals, did not apply, and the
consequence was that many who might have profitably employed treacle for this purpose, were needlessly prevented from doing so by the dread
of injuring their animals. Treacle, like all sugary compounds, is very fattening ; and the experiences of our best feeders go to show that. when used with discretion, it is capable of being very
advantageously employed in the fattening of advantageously employed in the fattening of farm
stock. It is, of course, best when the animals are being house-fed, and the most effective plan of giving it is to dilute it which the animals are receiving In the fodder treacle-as, indeed, in the use of all foods-moderation must be exercised at the commencement, and only a small quantity given. A pound per but when the systems of the animals become ac customed to it-for, as is well known, it is very laxative in its effects-as much as three pound ${ }_{\text {per }}^{\text {pized cattley }}$

What it Costs to Export a Sheep to Britain.
Sheep handlers are protesting against the vociferous manner in which exporters of live mutton have advertised their, losses of late. In the his tory of the trade there never was a time when either cattle or sheep exporters admitted that their books balanced on the right side. " Their actin. "As a matter of lact, sheep sent shecp the water have made money this season. Tak a 130 -pound wether, costing 6c. on the Chicago market. It represents an investment of $\$ 7.80$
An additional $\$ 2.00$ will lay it down in or Liverpool, and as the pelt is worth that much, the cost of the carcass is thus 87.80 .
Such a sheep will dress not less than 48 per Such a sheep will dress not less than 48 per cent.,
or $62 \downarrow$ pounds of mutton, costing a little less than 12tc. per pound. Now, the stuff has been fetching 13 c . and 14 c . right along on the other side, when sheep are worth $\$ 5$ and $\$ 5.80$ here a price that leaves a ase money right along, why do they continue
loserations? "-

## One Indication of Masculinity

In the selection of their rams in autumn, flockmasters are always careful in avoiding animals
with long, narrow necks. And very properly with long, narrow necks. And very properly
so. Experience shows that animals so constituted lack the masculine character and great constitutional vigor which it is always of so much
importance that a sire should possess. importance that a sire should possess. A thick,
stout neck, with a good arch, or crest as it is called, may ulways be taken as an index to constitutional vigor in the sire possessing it. The
remark applies as well to horses and cattle as remark ap
to sheep.

## FARM.

## Queries for Corn-growers.

What variety of corn do you prefer, 1st, for the production of ears and grain, s , Whater for ensilage? 3rd. What is your method of soil preparation, manuring and sowing, or planting? 4in - What quallities of seed per acre do ather points Concise answers or thers. Forward at once, giv ing your locality and nature of soil

## Eradicaung Quack Grass.

o the Editor "Farmer's Advocate": Sir, - I have several times rcadies as to the
er's Advocate". queries and replies
best methods of eradicating quack or twitch best methods of eradicating quack or twitch
grass. I have had considerable experience with
gither to it, and 1 often think of the big times we used Io
have with the quack roots when I was a boy. If we found a spot of quack grass in a field, we would start to root it out. We would plow the ground
(shallow of course, as we wanted to keep it as (shallow of course, as we wanted to keep it as
near the surface as possible), then harrow it near the surface as possibie), then (we had no horserakes then) gather all we could get into small heaps, and when dry have swudges enough to send the mosquitoes had not nearly all the roots out of the ground; we only had them nicely thinned, so that they could grow stronger and
faster, and we had fitted the ground in such nice faster, and we had fitted the ground in such nice
shape, too, that it just suited the roots that were shape, too, that it jast that the next year a similar job had to be done on that ground, $\begin{aligned} & \text { or } \mathrm{Mr}_{\text {r }} \\ & \text { Quack would have possession in earnest. } \\ & \text { But it }\end{aligned}$ Quack would have possession in earnest. is now a good many years since way, yet I have had a good deal of it on different warms to deal with, and I have had no trouble
to speak of with it. The old method makes a lot to speak of with it. The old method makes a
of useless work; and, secondly, it is a waste of of useless work, and, secona turned into a fairly
material that can easily be
good fertilizer. What we must consider is, that good fertilizer. What we must consider is, that
the object in this case is to exterminate, and not
pret the object in this case this we must take nature's
propagate. To do this
way, which is nearly the opposite of what has way, which is If we examine a bed of quack
been practiced. In
grass that has not been disturbed for two or grass that has not been disturbed for as ncar
more years, we will find a mat of roots as the surface of the ground as they can grow, and get sufficient earerse that order as completely as we can. As soon as the frost is out of the
ground, while it is quite wet and soggy, and before growth starts in the roots, hilch a good strong team to a plow that will turn over a good
wide furrow, and behind that put a man that does not care whether, his furrous are set up on
edge or not (if they are, part of the roots will e near the surface), and cut wide enough so as
oo turn the furrows over flat, and plant that quack as evenly and deeply as it is possible.
Then, with whatever crop is grown on the ground hat season, give as shallow cultivation as posible, so as not to pull up any of the roots; and
is they aro now down too deep to thrive well, as they are now down too deep co the soil. If
they will nearly all rot, and enrich the
a few of the roots here and there, not buriwd a few of the routs here and there, not
so deep as the rest, do grow, it will take some
time for them to get ahead, and then it is only to epeat the simple operation. a SUBSCRIBER.

## Poor Sugar-beet Pulp



We have laken the "Farmer's Advocate several yeans, and consider it a first-class agri
cultural publication. However, 1 do not thinh
Holen cultural publication. However, 1 do not think
that the letters you have published so far con-
cerning that the setters
cerning sugar-leet pulp will give farmers a rer-
fectly fair, idea of its value for feeling purposes. However it may be with farmers who live near enough to the factory to haul the pup away
while fresh, I can say from expericence that the
stuff that comes to us after lying in a heap at stuff that comes to us after lying in a heap
the factory for an indefinite lengith of time, a on the car for perhaps a week, then handled wo or three times while still heatine. is prat cally worthless for feed, and this is the state in
which farmers at outlying points are sure to kel most of those who have tried it in this district that it is not worth the handling -and those "
uphold it as equal in value with mangels or with from that with which the company favon
MASON ${ }^{1 \mathrm{~s}}$ Huron Co.

## A Splendid Knife

## The , rundurs, the farmor's knifo and th.

 They certainly are splendid value C. R. GERRY."ellinkt on Co, Ont.

## Three-horse Equalizer

Alfalfa Seeding
One of the greatest boons which new arzout
ure is bringing our farmers is alfalfa or lucerne, which is being grown throughout Ontario in ina permanent pasture seed mixture for, dry, hilly land, it is unequalled; as a hay crop on the same kind of land it is invaluable, since unce "s-
tablished it remains for years, yielding heavy tablished it remains for years,
crops of the very best hay, with no labor or cex crops of the very best hay, with no lavor or harvesting it. For soing, it is even better than for hay, as for this purpose
the full value of its food constituents is realized. the full no loss by over-ripeness or imperfect curing. In some of the rolling parts of the country, as in
sections of Southern Ontario, many of the steep sections of Southern Ontario, many of the steep,
clay hillsides, where other crops could not be verr" profitably grown, have been seeded, to alfalfa,
and are now yielding mangificent crops. The clay of the hillsides supplies the mineral elemenis in
alfa abundance; ; the hills afford good drainage and FC the air. The hins and here lucerne does tis liest. It will usually succeed, however, on any iterp As a considerable area will likely be sown this year, a few hints on seeding will not be amiss. preferably last year's coot or corn ground, buy about twenty or twenty-five pounds per acre of the very best and cleanest ssed olptainaiole. It is extremely foolish to take any chances with Before purchasing, examine a sample carefully for weed seeds, and also test for germination. soil at all likely to suffer from drought, sow the
alfalfa without a nurse crop; on moist land, cather in moist climates, a light seeding of barley, say a bushel or five pecks per acre, may be sown without seriously injuring the chances of the lucerne; in fact, it will help to keep down weeds.
The seed should be covered lightly with the smoothing harrow. On dry land, some disk it smoothing harrow. Un dry land, some disk it
in, but we believe harrowing is better. On acadvise application would not
yard manure-it should have
been applied to the previous
ring, whiffletree for the center horse to top ring.
and doubletree for two outside horses atta.had and doubletree for two outside horses attarhed
to lower ring. This doubletree is made about a foot longer than the ordinary two-horse doubletree. This rig allows the horses to work clos
together, as the whimletrees overlap).
Falpin Co., Ont.

Seeding in Prince Edward Island.
In oats the leading varieties grown here are Bar own the Waverly for two years, and have had have returns. In wheat the principal varieties are White There is not much barley grown alone, but mostly with Wher grains. Two-rowed is preferred. Peas and
vetches are grown with oats for areen feed ount of the weevil very little is allowed to ripen. In selecting seed grain, if 1 want, say, 25 hushels ts to sow a certain field, I want at least 30 bushels commence with Set the fanners, if possible, wher
draft is blowing through ; open the slides so as $t$, ve all the wind possible; take out all the riddles ;
in the coargest seed screen in the bottom, to allow $t$ in the coarsest seed screen in the bottom, to allow hopper, and turn hard. My hopper, and turn hard. My reason for removing the
iddles is, they carry the largest of the grains over th the chaff and small grains. If one had largo lowing through, there is no machine invented will do Mivantage of the wind. ans too thick. I sow of cits, 3 husherls hy mumaturn

$\qquad$
$\qquad$
$\qquad$
$\qquad$
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$\qquad$
$\qquad$
$\qquad$
 if dry … top. Whll at once. the spike harrow, and then ver, and 2 us ulik. per acre. Charles Craig.
Prince Edwatd Island.
crop-but we would recommend lime and about and twenty-five
bushels per acres Dushels per acre of wood ashes.
More particulariy would this
be beneticial e beneticial on would this

ight loan ir sand. Alfulfa is an irrigation plant, thriving The clover, it is a gross feeder of potash, and ts roots will not thourish in an acid soil. Articial inoculation with these bacteria may not previously grown. It is believed that the bacteria of lucerne and sweet clover are practical-
ly the same, or very closely related species. The ly the same, or very closely related species. The
red clover bacteria are thought to be quite an other kind, and hence of little or no use for in-
oculating alfalfa soil. The simplest method of oculating alfalfa soil. The simplest method of
inoculation is to sprinkie over the field a load of loamy soil from an old alfalfa field. However the best way to ascerlain whether it will succeed on any siven farm, is to experiment on a small
scale to begin with. be expensive, and generally speaking it will prove satisfactory on well-drained land. $\Lambda$ plot of alsupplying green fodder, to be fed in the stables in the summer, as it can usually be cut throe times during the season of the first year, and

Treat Seed Oats for Smut.
: probable that there is an annual loss of throuch the million bushels of oats in Ontario This could be largely prevented if the seed oats were itmmersed for twenty minutes in a solution made liv mixing one pint of formaldehyde (forma this solution has the power of killing the spores ratment and leaving the oats uninjured. If the Wkes place, the oats should be spread on a floor atmy theroghly dried but if it is made immed lally dry the sowing, it is only necessary to parT11) prevent smut spores from bags, bins, taken the formalin has themg mixed with the oats after Mi...tual. and if comparatively cheap, and very whi.e.twal. and if thoroughly performed, need not

PROF. C. A. ZAVITZ
Premiums Appreciated.

## Trenzied Potato Culture

 How New Expensive Varieties Were Raised and From time to time during the past year short accounts appeared in the press of the fabulousprices asked and obtained in England for new varieties of potatoes, and of the enormous crops
obtained from a small amount of seed. Many obtained from a small amount of seed.
people frankly disbelieved the reports, while others people frankly aisbelieved the reports, while doubtful, and wondered how such results
were were obtained.
I determined to find out the truth, and had a good opportunity when on ar visit to South Lin Country. I went straight to the principal grow-
ers and such information as I obtained is absoers, and such information as lutely reliable, and all the statements as to quantities and prices are facts, vouched for by men of
integrity. I am thoroughly convinced that Canadian farmers and gardeners can obtain similar re
sults by familiar methods. INOTE.--But pronasults by familial methods. Much patience is required in the raising and
evelopment of these new varieties, and it sometimes happens that the man who raises a new variety does not benefit much by it. He may
like an inventor, sell his discovery for a mere like an inventor, sell his discovery for a mere
song, while the buyer makes his thousands. Nearly all the new varieties are hybrids, or
crosses between two older varieties. The crossing crosses between two older varieties. The crossing
may be a natural one, or, the result of the gardtained in the plum (or apple, as it is sometimes called) are sown early in the spring, under glass.
The plants from these will, perhaps, all be clifferThe plants from these will, perhaps, all be dlifferent, and only the best are selected for the next
year's seed. This process goes on for about five years, at the end of which time, the best, or what
in the grower's opinion is the best, is saved, and the new variety is ready for introduction to the
world care, the sedlings turn out to be uscless, and that time was entirely wasted. To put the mat-
ter in a nutshell, the law of the survival of the ter in a nutshell, the law of the survival of the
fittest is in force here, as in the whole of nature It will be easily understood that special training' is required for such work, and even that is
useless without a keen insight and a knowledge useless without a keen insight and a knowledge
of what will be required in the potato world for several years in advance. Mr. A. Findlay, of years, has introduced many of the most profitable varieties of potato in Great Britain. All the
growers who were approached on the subject, agreed that he has done more for the homely, but necessary, potato than any other individual. His whole energies, and those of the growers (as
distinguished from the actual raisers) have been distinguished from the actual raisers) have been
and are centered on the production of new dis ease-resisting, and at the same time prolific.
varieties. Their efforts appear to have been crowned with a considerable amount of surcess, As regards price and produce, the most sensational potato of all time is undoubtedly the
"Eldorado," of Findlay, which has so far fully "Eldorado," of Findlay, which has so lar, iully justified the raiser in giving it such a hige for it has been a veritalle mine in ind
ing names
for those who were so fortunate as to get possesfor those who were so fortunate as to get posises-
sion of some of the seed. One of these was Mr. Geo. Massey, who leaped into prominence and
caused an immense sensation by the high pric s he obtained for his variety. His first sale was
made in December, 1903, $\$ 7,000$ being obtained made in December, $1903, \$ 7,000$ being obtained
for fourteen pounds of Eidorados. This, howiver, for fourteen pounds of tidorados. This, howerer
was destined to be beaten in the following sirin-
when when a single potato, weighing five ounces, wa rate of $\$ 1,250$ per pound. One naturally wonder
how it is possible to make any protit aflior aying how it is possible to make any prolit aftirr paying
such a high price for the seed; but the following authentic case will show, at the same tume, This car
it is done and how it is profitalle. This it very close. record, but many other yweds 1904 Mr. Charles Noedham, Wildsworth, Lincolnshire, Englante, bouyht a sinal From Mr. Massey, the price being $\$ 30$.
from Interesting to note that half an ounce of pur
unold is worth $\$ 10$, so that the potato cust thr On the 10th of March this precious potato wa covering of soil, and ten days afterwards aleven
urouts were taken off and planted. Between th 2nth of Were taken of and planted Barch and 30 th of June other sproll
wire Wre taken, and cuttings from the carlier sprouts
making in all 120 plants from the single potato The last sixty cuttings were planted out in the
Ten between the 1 st of June and 6 ith of .Julv. Now, as to the produce. The first 11 plant
 wight 110 pounds, or an a arrause Ir Needham sold 49 mants thes wre hat
he had kept them they would have rtelded as well as the others. The total would have been con-
 pounds. it that price amounts to $\$ 1,500$. Surely that is profit enough ior any a verage man, and
would pay handsomely for the care bestowed on the oricitial potato. hoots were planted out five
and three feet betwcen each plant and the haulms (tops) were so luxuriant
that they covered? the whole of the space between. One of the large, the whole of the space between
and from the sixty lateses weiphed two pounds,
alants 12 were weighed, ; pounds. Out of a

hat, one thousand bushels of late ones. One might go on writing of the good qualities of many more new and valuable varieties; but the
more there are, the harder it is to choose more there are, the harder it is to choose, es
pecially when so many are really good. No les phan 460 varieties were shown at the National
Potato Show last year. Potato Show last year. However, enough has
been said to show, and I hope, to prove, that the potato has a great future before it in England and if in England, why not in Canada? $\begin{aligned} & \text { W. Margrave. }\end{aligned}$

## Open the Furrows.

"I have one piece of oats on my best ground,
and ta should be my best crop; but they are not doing nearly as well as another piece which I did not expect so much from, and this is on account of not having run the furrows on the better piece. When the big rain came, the water did not get wanted the boys to run the furrows before leaving the field, but they were in a hurry to get through and thought it would not make much difference
anyway., tion I had last summer with a farmer friend The boys won out so far as having their way in he matter was concer No form of seeding is commendable that is not well done. Half doing, to get the work turned off in a hurry, is most detrimental to
success. Nothing should be slighted with a besuccess. Nothing should be slighted with a be
lief that this will be a dry year, or otherwise. Speculation as to the weather does not pay when our crop is at stake. Let us not be satisfied weather can demand, and if the most inclement weather can demana, and if we have a clay fiet
to wor, let us treat it as clay requires.
Wentworth Co., Ont.

## Eidorado Potato.

Weight five oun ${ }^{-e s ;}$; sold for $\$ \$ 5000$
total of 361 pounds of potatoes, 100 single tubers The vigor of the potatoes was absolutely unimpaired, as the sight of them bore witness. The whole crop was quite free from disease of any hind, and were nearly all marketable size ; and Lhe weights speak for themselves. Last fall a well-known Scotch grower gave Mr. Findlay $\$ 100$ for a single tuber of a new variety. He afterwards refused $\$ 125$ for it, but in order grower allowed him tho was very pressing, the grower allowed him to cut out a single eye, for
which he (the grower) received $\$ 25$. This was since the beginning of 1905 . As for the treatment this wonderful crop rehad the same manure as the ordinary potato. In no respect were they treated better than common field potatoes. The Eldorado was first sent out pected to be on the market for culinary purposes in the fall of 1907 . There are other new varieties. The Leader last season produced (without the method of direct) a crop of 600 bushels to the acre. The produce was lifted within ten weeks from the time in planting: they were fully matured, und fine in appearance and flavor. Again, a late variety, Come cases, as high as a thousand bushels to the acre, while in most cases the yield has been
over five hundied bushels. Of course, it will be



Basket of Eldorado Potatoes
Wight foutteen pounds; fold for 87,000 in Decernber, 1903.

 to put all logsing chans, shovels, picks, ares, otc. If such a place were provided on every tarm there would Bo leas lose of the Armers valuable time. orten when
Ii is most noeded
STARK it is mose noodod
Potetroboro Coo, ont

Artificial Manures and Their Effects on Root Crops.
To the Editor "Farmer's Advocate":
Sir.-Now that in some distrcts at least of the
old-setlod parts of Ontarlo, farmers are beginning

 tor strawt this owould seam to bo ba opportune moment
to enter into a dibuscion of the value of artifcial mato enter into a dibcussion of the value of artifcial ma-
nures and their effect on various crops. In England, Germany and France, where a great deal of straw and beam is sold orf the landd farmers find it necessary to
supply something in their place to provent the rapty supply something in their place to prevent the rappd
detorioration of their land.
It is almost impossible in doterioratation of their land
considering this considoring this quastion of manures, under such cor
dititons as prevali on our large Engilish farms, to correctly sum up even approximately the exact loss gain on a year's farming transactions, no one yoar
stands altogether by itself, hence the practice, whe one tenant leaves a farm to be taken over by another
 going "' 'oee, determined largely by the residual manurial
value of all straw, etc., left by the leaving tenant. value of all straw. otc., lert by the leaving tenant.
Wher oso much of our land it all down to grase the
farmer, whether he be a dairyman, or tis stock fooding Parrer, whather ho be a dairyman, or tis stock fooding
for the markets, must depend not on the grain produce of his own farm to feed his stock, but on the Liverpool dian and American grain, with cottonsed and linseed
in various forms, whilist he hells most of his nwn grain In various forms, whilst he sells most of his own grain
at a higher price than he can buy at, rotaining only a part of his straw. This is where the artificial ma-
nure comes in.
He sells his wheat stran per tom to some factory in the town, and buys some artifcial manure to the same weight, but at two or
inree ghillings a ton less, whilst its effectual manurial

 most disappointing result, in that one may neutralize
the other. TTris sometimes happens when nitrate of
sode nad beic soda and basic slag are used on rass land For some
years exporiments have been carrited on in the counties of staford and Shropshire, under the auspices of a
joint committee of their respoetive count councis, and and
directidec by the experts of the Harper - damm gsicul tural Colloge, at Newport, not only on the farm con-
noctod with the college, but also on tarms in noctod with the college, but also on farms in diferent
districts of the two countios.
The results have been carratuly thabuated for several yoers, along with the the
cost of the manures ; and trom these it is possible to cost of the manures; and from these it is possible to
calculate the cost of the increased yield, compared with calculate the cost of the increased yield, compared with
the next plot of unmanured land in the same field. Let
me pive some of the resulte with the cost me give some of the results, with the cost, farmyar
manure being valued at $\$ 1.25$ per ton. I give the al proximate figures in the Canadian coinage. It must
also
remembered the whole cost of dressing with also remembered the whole cost of dressing with farm is certainly felt more by succeeding crops than is the
case with some of the artificial manures. In an experiment with swedes, at Blurton, the un-
manured plot produced 10 tons 15 cwt . per acre, whilst manured plot produced 10 ons 15 cwt. per acre, whitst
an adjoining plot dressed with five hundredwoight of
superphosphates and \&of a hundredweight of sulthate superphosphates and ol of a hundredwight ow s.. or a
of potash gave a yield of over 14 tons 12 cwt., or
increase of 3 tons 17 cwts . per acre, the total cos being $\$ 5.45$, or $\$ 1.40$ per ton of increase. A plot
dressed with farmyard manure, twenty tons to the acre
produced the far heavier yield of 25 tons 2 cwt., but manure being considered worth $\$ 1.25$ per con, the in amoun of labor in spreading twenty tons of farrmard
amanure and broadcasting not quite six cwt. of artificial manure is a consideration. Another experiment wit swedes, carried out at Featswood, was on the economy
of using home mixed manures as against purchased compound manures. The cost per acre for the com-
pound manure was about $\$ 11.50$, and the yield in this case was 20 tons 11 cwt. The home mixed manure consisted of and was sown at the rate of, superphos
phates, 3i cwts.; sulphate of ammonia, i cwt.; and
nitrate of soda, 1 cwt., per acre, and the yield was 20 Cons 16 cwt., or an increase over the other plot
ons $1 \mathrm{bs} . \mathrm{c}(5 \mathrm{cwt}$.), and the cost of the manure wa 560 lbs. ( $5 \mathrm{cwt}$. ), and the cost of the manure was
about geven dollars. In the case of an experiment at Blurton, on exactly the same lines where the compound
manure was used the crop per acre was slightly heavier than whare the home-mixed preparation was used, bu then the latter was the more profitable
sugar-beet growers, is one which has been the Harper-Adams, Agricultural College, and which dea not only with the tonnage produced, but also with th
composition of the roots produced. The crop is, mospition of the roots produced. The crop is, of
ourso, swedes, but the amount of sugar in the juice it
fiver
cwt: sulphate of ammonia, nitrate of soda, and sul-
phate of potash, each about 1 cwt., and kainit, 4 cwt., phate of potash, each about 1 cwt.
te artificial costing $\$ 12.75$ (nearl) over 24 tons per arce. rather more than croub
crop trom the unmanured plot. but the aul doubl crop trom the unmanured plot, but the quality was very
different.
The rools from the unmanured plot (ons. difirent. The roots from the unmanured plot on-
tained 14.92 per cont. of dry matter, and their juice
 the best manured and heaviest yielding plot showed
11.8E per cent. dry mater, and the percentage of mugra
oster in their juice was 9.59 . Then another plot, manured.
with dung and dissolved bones, at the rate of twenty tons per acre, and $31-3 \mathrm{cwt}$. per
produced fust under twenty tons of the artinclast mander twenty tons of roots, the cost of age of dry matter was 11.96, and of sugar in the juice,
8.80 . Again, after comparing the results of a series
 land is of a modium loam om a clay subsoil. reating on
the new red sandstone formation), shows that the uss of potash with other manures has little or no result on the crop, whilst the addition or kainit, instead of either
salt alone or of salt and potash torether, has given the salt alone or of salt and potash together, has given the
best resulta over a periot of some years.
observabest resalts averan
tions were also made at the same time as to the cause or mangels " "bolting "t to seed in the first geoson of their growth. It had been suggested that this bolting
was caused by some in iury to the plants in an early was caused by some injury to the plants in an early
stage of growh ond to test this point the hand sin-
gill
 close to plots of the same varioty on on
which the hoo had been used, but at the end of the season it was found that the numbor of bolted plants
was about quual in both cases. . It had also been sugy
 $\operatorname{lng}$, but on making a trial of seds from seven difrerent
years' crops, it was found that oach plot had boited years crops, $1 t$ was found that each nlot had bitted
equally, but different varieties differed considerably in the number of plants that bolted, and it has thus come to be considerad that the different methods of producing
seed is in part responsible for the bolting. whil st the seed is in part regponible for the somb exhist thin
 in the next season, which was much drien, the same sean
varieties bolted rather baily.
The botiting greatly af locts the foeding value of the plants, as, taking the
caso of one variety alone, the sound roots produced


## Millets and Their Uses.

The German millet (Setaria Italica Germanten) dif It producherman millet is a plant $3 \ddagger$ to 5 feet high mature so early, neither is it as good a drouth-resister as the common or Hungarian millots. The place of be sown for fodder when the sanplememtary crops, to be ewn for fodder when the season is late. They are
useful in in hoot rotations-useful to aid in getung rid of weods, and as a supplement to other forage plants. and to be used in place of a bare fallow. The millets
in common use are the foxtail millots. (Setaril Chootochloa Italica, var Germanica). These plants thrive well in rch, warm, loamy soils, but not on thin, poor aand. It has been stated that a crop of millet on new German millet is supposed to have been brought from. rass. Hungarian millet was formerly known as Bengal but it has a tendency to volunter, which is a quality the latter part of May or in June, on spring plowing,
 sedier or by hand-the former way proferably. The
quantity of seed used per acre is from onehalf to threeQuarters of a bushel. Thin seeding frequently results
in coarse stalks not a desirable quality for hay. This class of fodders should be cut before the seed has begun
to ripen, espectally t or horses. If cut to oarly the or ripen, espocillly for horses. If cut too early the the
hay has too laxativo an efece.t., The best time to cut
 as one authority puts it "tho best time to cut for hay
is when the riajority of heads have distinctly appeared.".
From experiments made in North Dation From experiments made in North Dakota, mill let hay,
in which the seeds had been allowed to to ripen, had beol
 cows, although data of an oxperimental nature of this
statement are not aviliable.
The millets are sill hit haxalive in erocts on the bowels, and stimulate the kitl
and reys to work; immature millot is laxative, overrtipe
diuretic (acting on the kidneys). Once indyy
 May for horses, nnd it should not be tod ortener than
t.wice a day tor other stock , rreferably not at all t

## Good Common Sense

## Supplementary Summer Feeds.

 "Beginner " writes, asking our readers. to adise him through the "Farmer's Advocate," wha ariety of what single grain or grass mixture they find best suited for supplement ry summer feeding of dairy cows. The enquir is timoly, and the replies should te prompt a

Alfalía as a Substitute for Bran and Cotton-seed Meal.
An important point in feeding conomy is t Co take the place of the expensive protein feed
such as bran, oil cake and cotton-seced meal, whic such ha bran, oll cake and cotton-sece meal, whic
it is usually necossary to purchase in greater
less Less quantity and feed with the home-grom
fodders to make a good milk ration. lodders to make a good milk ration. The valu
of alfalfa for this purpose is being recognized by practical darymen, to whom the following result of an experiment by $A$. $M$. Soule and $S$. 1 Barnes, of the Tennessce Station, will be quit
credible : Twelve cows were divided into threo groups cotton-seed meal ; one, corn silage, alfalfa hay falfa hay and wheat bran. The feoding period was four months.
Lot 1 consumed 21,376 pounds of silage, 3,624 pounds of wheat bran, and 1,207 pounds of cot
ton-seed meal, and produced 7,521 pounds of milk and 439.05 pounds of butter-fat. Lot 2 con-
sumed 20,558 pounds of silage, 3,638 pounds of alfalfa hay, and 1,871 pounds of cotton-seed meal and produced 7,689 pounds $\begin{aligned} & \text { of milk and } 424.89 \\ & \text { pounds of butter-fat. }\end{aligned} \begin{aligned} & \text { Lot } \\ & 3\end{aligned}$ consumed 16.139 pounds of silage, 3,350 pounds of alfalfa hay, and
$3, \tau 25$ pounds of wheat brat and fald pounds of milk and 347.99 pounds of butter-4at The digestible matter consumed by the three lots ior the production of a gallon of milk was, re spectivecy, 5,5 and 7.9 pounds, and for the
production of $n$ pound of butter 113 . 121 and 14.7 pounds.
From these results it is concluded that un pound of cotton-seed meal conld be replaced by about three pounds of alfalfa hay, and one pound
of wheat ran by boout 1.5 pounds of alfalla hay The limit of this substitution will depend upon the individual capacity of the animals to consume the when fed with silage, but that will lie consumed be increased to fifteen or twenty pounds when fed
without silage. In this experiment the favoraile results following the sulsstitution of alfalfarail large measure to the feeding of these material with a fine quality of silage.
The net cost of producing a gallon of milk
allowance being made for the tendance, and also for the cost of food and at was 7.1 c . for lot 1, 1, 5.7 c . for lot 2 , and 8.2 c . for
lot respectively, $12.3,10.4$, and 15.3 c . From the sults were, therefore, obtained with the best realfalfa hay at $\$ 10$ per toned with lot 2 . With alfalfa hay at $\$ 10$ per ton, and wheat bran a
$\$ 20$, the saving effected by substituting alfalfo wheat bran is estimated at 19.8 c . per hundred
pounds of milk, and $\$ 2.80$ per hundred pounds of

## Experience with Milk Fever



APRIL 13, 1905

Weight and Sale of Cream and Mill

1. What is the weight of a gallon of cream 30 per cent. and 40 per cent. fat ?
2. What is the weight of a gallon of milk, say milk containing 4 per cent. butter-fat ?
3. Which will pay the best for a farmer. to 3. Which will pay the best for a farmer,
sell cream at 50 c a a gallon of 10 pounds' wei.ght,
30 per cent. fat, or milk at 14 c . a gallon, 4 per 30 per cent. fat ; or milk at 14 c . a gallon, 4 per cent. fat ?
Thunder Bay.
Ans.-1. One gallon of cream testing 30 pe cent. fat will weigh, according to Farrington
9.96 pounds ; testing 40 per cent. fat, 9.66 pounds. Ordinarily, however, cream weighs a about
10 pounds to the gallon, and the percentage of 10 pounds to the gallon, and the percentage
fat in the cream will make practically no differ fat in the cream will make practically no derer ence Ce. Cream testing 25 per cent. fat, weighs
scale.
practically 10 pounds to the iniperial gallon. practically 10 pounds to the iniperial gallon. pounds on the avcrage. It varies according to
the specific gravity, but this variation would no be recorded on the average scale.
4. It would pay your subscriber much bette 3. It would pay your subscriber much better
to sell milk at 14 c . a gallon than to sell cream to sell milk at 14. a gallon than a sellon. A the prices named, fat in the form of cream wonld
sell for 16.6 c . per pound and in the milk sell for 16.6 c . per pound, and in the milk at
33.7 c . per pound, assuming that all the fat was 33.7c. per oo the milk in the form of cream Stated in another way, the amount of milk re
quired to produce one gallon of cream would be quired to produce one gallon of cream would b
about 7.3 gallons, which, at the price named would be worth $\$ 1.02$, and the gallon of cream would only be worth 50c. Where the cream only is sold, the farmer would have the skim milk for
feeding purposes, but to offset this to some extent would be the labor of separating the cream from the milk. He would need to place a very
high value on the skim milk in order to make cream selling as profitable as selling milk at the
prices named.
H. H. D

## Soiling Experiments in Maryland.

In the Maryland Station bulletin 98 is a recor
of some soiling experiments which will be of in
terest at this season. They are not to be re terest at this season. They are not to re re few good points. In these experiments green rye
cave a decided decrease in milk flow, as compared with silage fed the previous week. Green wheat fed to 21 cows in alternate 15 -day periods with the rye. It is believed that the feeding value of green rye has been nuch over-estimated In another experiment, soiling iand pasturing
were compared. Ten cows were fed on preen corn were compared. Ten cows were fed on green corn
for one week, foliowing which period five of them for one week, foliowing which period five of them
were continued on green corn and five turned on luxuriant grass and clover pasture for thirty-five
dave The cows changed to pasture increased in davs. The cows changed to pasture increased in
their average daily yield of milk from 15.9 to 172 pounds, and the cows fed corn continuously decreased from 15.3 to 14.9 pounds, a differenc of 1.8 pounds milk per day in favor of the pas-
ture. Some advantages of soiling, such as the greater quantity of fed olitained per acre. and
consequently the gieater number of cows that can he kept on a given area are, however, pointer hy the greater amount of lator entailed. For soiling, except as a supplement for the usual d midsummer season, during which pasture fails t
make much growth. For this period every dairy man should provide himself with sila "e or a
couple of acres of some soiling crop as oats ind couple of acres of some soiling crop, as oats and
peas. followed by corn. This simnle precaution weans of ereatly increasing the stock-carrying

## Eastern Ontario Dairy Instructors.

 Mr. R. G. Murphy, of Brockville, Secretary of the Ate instructors for the season of 1905 . They are al i.tles of having all come together is that in addition to
their excellont individual qualifications they will star




 Chentham, Cananoque: R. Fllintt. South March:
Campernn. Camphelleroft: N. M. Wilson. Kemptvilt,
Roht. T. Grav, Marmora: J. F. Singleton. Newhoro Tas. Irwin, Bancrot: C. A. Fublow, Picton: G.
Publow, Chief Instructor, Kingston. Tho ten instructors Por Western Ontarlo, with Mr

Detructor's course at the Ontario Agricultural College grand staff of 37 men In all, Ontario will have a grand staif of 37
tion this season.

## O. A. C. Dairy School Graduates.

## The class of 1905 is one of the brightest whic

 las graduated from the O. A. C. Dairy Schoo are included four from the Maritime Provinces one from Argentina, two from Wisconsin and one from Pennsylvania. The remainder are from various parts of Ontario. The School has a reputation as wide as the Ontario Agricultural College, of which it forms a part. It is a great advantage to the students of the Dairy School lectures from many of the members of the Colloge staff. This is especially beneficial in chemistry and bacteriology. We are pleased to hear that increased accommodation is soon to be provk The term closed with an "At Home," tend ered to the students and their friends by the in structors. The class presented Prof. Dean with the examinations: $\begin{gathered}\text { Proficiency List.-Factory } \\ \text { Freund, } \\ \text { Hilbutt, } \\ \text { Wisconsin, } \\ \text { U. }\end{gathered}, \quad$ W. S . H . Lund, Guelph, Wellington Ont.; 3, J. H.'Wilson Mountain, Dundas, Ont.; 4, J. Bower, Harriston Wellington, Ont.; 5, H. F. Hughes, Petitcodiac R. W. Burns, Butternut Ridge $\frac{\mathrm{N}}{\mathrm{N}}$. 8 W W Tool. Bishop's Mills, Grenville, Ont.; 9, G. P freensides, Atwood, Perth, Ont; 10, R. P. Den-

Sweet Eyes (lmp.) 173933.
First 3-year-old Jersey Cow at Canadian National Show. Toronto, and at CentrallCanad

Porth, Ont.: 12, D. F. Stewart, Hampslead, Perth Int.; 13, 1. W. Grieve, Wyanaotre, Wellingto S.; 15, L. E. Smith, Oliver, Middlesex, Ont.: 1 A. F. Barber, Grafton, Northumberland, Ont.;
and W. J. Murphy, Bornholm, Perth, Ont.; 18 , hiss Annie (is, Condersport, Ta., U. S. S.; 21, H. V. Godoy Buenos Ayres, South Americaine-1, D. F. Mc Kenzic, Kinmount, Victoria, (Ont.: 2, L. R. Suth
rland. Six Mile Brook, N. S.; B, R. W. Brow tamford. Welland Ont. 4 F' Ward, Guelph Farm Dairy-1, Lawrence Jenkinson, Toron-

## Moisture Percentage in Butter

A despatch from London. Fng., contains the market report, referring to the standard of moistintroduced the hutter hill, which fixes 16 per ent. as the legal amount of water to be allowed ow percentace of moisture in colonal butter will Cradually increase, until it collesely approaches the
sixtren per cent., for it would he more than human to expect the colonial huttermaker to wilfully lose 34 shillings per cwt. by sending it to us with only 10 or 11 per cont. moisture, when he

## Cool Curing of Cheese

onsiderable interest has been aroused among Cheesemakers by the lecture delivered by Mr. D. College, at Castle find the agricultural Douglas. It is gratifying to part in aghour coliego authorities taking that the public should heve as thentic reliable results which require explanation and good deal of qualification before being of any prac tical value. Mr. Robb's experiments are only original as applied to Scotch Cheddars, as they have been thoroughly investigated and tested in
the United States and Canada many years ago The results have all gone to prove that cheese cured at a medium temperature, viz., 50 to 58 degrees F., have been more perfect than cheese
cured either at a lower or higher temperature. The conditions of curing in America are different from those ruling in Scotland, and what is suitable for the one country is not always suitable for the other. In America, cheese are mostly veyed from considerable distances to the cheese factories. This starts the ripening process, and causes their cheese to ripen quicker at a lower temperature than in Scotland, where cheese are
mostly made from the milk of one dairy. In this our makers have a great advantage over our, Am erican cousins, the milk being freer from harm ful germs, which a low temperature keeps from
developing. omitted one very important point in giving the results of his experiments to the public, and that was the price realized for those test chese.
have been informed by those who examined them
that they were that they were not value for within 10s. the time of exami-
nation. It may be
of interest to a nation. It may be
of interest to a a
number of our farimers who do not
make fine choese to make fine choese to-
know that by keep-
ing a secondary ing a secondary
cheese at a cool
temperature do not develop their bad flavors so auickly as at a higher are not interested, however, in knowing how to make or
keep accondary ceep a a secondary
cheese, as it should che the aim of cvery dairynnan to make
his cheose first-class. his cheose first-class.
The writer has had The writer has had
over forty years' experience in this
trade, and would strongly warn dairy armers against
keeping their tem-
perature lower than perature lower than
from 58 to 63 degrees, as I have ala number of late number of late-
made cheeso tha are kept far too
near the 40 -degree temperature by being badly fred nnd per cwt., as on the same cheese when properly kept. At a time when our trade is being sorely pressed by the Canadians, it would be unfortunate
if aur dairymen should follow experiments on the lines indicated by Mr. Robb, as I have no doubt thas indicated by Mr. Robb, as I have no doubt will find that it is not in the present system of ripening we fail, but in the want of the fine nutty
flavor that is so much prized by the public. IAndrew Clement, Scotland, in Scottish Farmer

## Pure Culture Starters.

The National Creamery Buttermakers' Association will consider at thelr next convention a proposition as follows, as a protection agains i. Only butter cultures bearing the label "guaranteed pure cultures of lactic acid bacteria." shall be recognized as standard, annually of two or more samples of cultures from each manufacturer. 3. The analyses shall be
4. The regulte of the analyses shall he pub lished through the press.

Minnesota dairymen are anxious to adopt a trade-mark, so that their butter,
the market. will be known as such.

## Cheese-box Courtship

 dian condon, Eng., despatch says: ". A CanaShields tradesman a rather difficult task. On opening a cheese the latter found a small bottle,containing a communication addressed to his containing a communication addressed to his
English friend, dated from Frankville, near Brockville, Canada. The communication requested him to pass the letter on to the nrettiest girl in town,' with whom the writer invited correspond-
ence. The merchant, however, was not prepared to carry out this commission

## fOULTRY

## Square Dealing with Customers.

 If there is one purchaser wholly at the mercy respondence.. For this reason it is especially desirable that advertisers of this class of stoshould be thoroughly honorable and prompt should be thoroughly honorable and prompt
their dealings. Unfortunately, the temptation
hold off customers whose orders cannot be fill old off customers whose orders cannot be filled
promptly, often proves too strong, and the repromptly, often proves too strong, and the re-
mittance is kept until the sender is exasperated, and, perhaps, entirely disappointed in his cal-
culations. As a point of honor, it would seem cuations. As a point of honor, it would seem
to be only fair, when a person advertises to sell eggs, that orders which come in as a result
that advertisement, and which cannot be fil within a reasonable time, should be acknowledged immediately with an offer to refund the money at the customer's expense. A complaint bearing
the stamp of genuineness has recently come to hand from a disappointed har recently come In poultry advertisers has been somewhat shaken The person alluded to states that she sent for a setting of a certain kind of eggs, and after wait-
ing for some four weeks, received in lieu of the setting of thirteen ordered, five of that kind and three of another kind of fowl ; that, of the five murred from refunding the money or sending another setting. While unwilling to impugn the honor of poultrymen in general, we are not dis-
posed to ignore instances of this kind. The "Farmer's Advocate" is naturally anxious onserve the interests of the brecders, but su scribers come before advertisers. We believe t majority of our advertisers mean to be squar
and that, as a class, those using our columns a the cream of the poultry and live stock men, bu instances such as the above are liable to occur spite of every precaution on our part
cases of disappointment are, no doubt, cases of the seller, and it is no not surprising that
fault of the the
they become silow the liston to they become slow to listen to complaints.
same time, it behooves them to exercise same time, it behooves them to exercise uvery their patrons. We believe it is better to lose an rder rather than displease a customer. Fai ealing and busincsslike methods pay the adver o the credit of the advertising medium.

## A Case of Apoplexy.

Would like you to tell me what is wrong with my hens. Have found as many as four healthy-looking
Barred Rock hens, fat and with combs red, lying dead
under roost in tho under roost in the morning, although nothing arong
had been noticed at night. Others have one side of the had been noticed at night. Others have one side of the
head swollen, and are lame on one leg. Found one head swollen, and are lame on one leg. Found one
hen dead on the nest. Have been feeding principally
on oats, with routs ance on oats, with roots once a day, and, occasionally,
mixed-grain chop in milk. "They had all the fresh mixed-grain chop in milk, They had all the fresh
water they can drink. all the gravel they cared for,
nnd oyster-shells accasionally. Have a guodisized house water they can drink, all the gravel they cared for,
and oyster-shells occasionally. Have a good-sized house,
with plenty of licht with plenty of light. They appear to eat well, and
have been laying well dill winter.
J. M. have been laying well all winter.
Under ordinary circumstences, I would have M .
hesitation in saying that the birds are dying of apo
 lack of excerise. It is hard to understand birds be-
coming too fat when they are fed princtrally on oats. coming
unless th unless the chopped grain and milk are in oxcess. Where
such breeds as Rochs and Wyandotes are kept, and the
hirds are over two yours of age, or ace even ouly one year old, they are inclined to become die on the nest. Troe olly thing that can the done is
to incease the exercise and reduce the tlosth. This can


 Nidd then use thiss water to mix the chopped feed, pors


An Exoerience With White Leghorns the Editor "Farmer's advocate": I have been amused at the letters regard:ng tained with a small flock of White Leghorns givel 10 my children as a present by the owner of the
farm I am manager of. On June 11th a Ply mouth Rock hen with eleven newly-hatched clicks arrived at the house. They had the run cf the grass fields and were fed regularly. In Octoler
the first egg was laid, and during the balance of the month they laid, from one to two a day.
During November there were more. In the last During November there were more. In the last
of October two of the four cockerels weivhed $4 \frac{1}{3}$ of October two of the four cockerels weiphed $4 \frac{1}{2}$
and $4 \frac{1}{2}$ pounds : one pullet weighed $3 \frac{1}{2}$ pounds. and $4 \frac{1}{4}$ pounds: one pullet weighed
During the past exceptionally severe winter we have had as many as four eggs a llay from the
seven pullets, and last week there were 41 egres Seven pullets, and last week there wers weiched
laid in seven days. A dozen of these wiser $1 \frac{1}{2}$ pounds. The results of the eleven Leghorns
are proof that they can supply egas ; and at the same time, the cockerels not five months old
weighed over 4 pounds each.
$\qquad$
GARDEN AND ORCHARD.
Co-operation in the Fruit Business.

## There is, perhaps, no other question occupying

 the attention of progressive fruit-growers so muchas co-operation in the handling of fruit. and no enterprise deserves more careful consideration be fore undertaking it. Many a good co-operative
association has been wrecked by people rushing association has been wrecked hy people rushing
wildly into it, imagining forture is theirs, and then just as soon as some little difficulties appear rushing as wildly and rashly out of it.
Co-operation nust be entered into with a steadfast determination to overcome olstacles and

D. Johnson, Forest, Ont.
ways leavroblems, which, whell work d out our foundation. Ile cannot expect to attain
ident must be content to work patientry for sears the orchard We must produce good fruit befor Wee can successfully co-operate in colling it
find as we iravel throughout IIostern (Intari
ruit grownin. distich thusiastically the idea of co-veperative handling
fruit. lout whin we press on thom the atisulu necessity of growing it on sen then in pre principles they
seem to think it ail so derpis mithoudel in in ect
$\qquad$
 ributing prohlem, and made honest practical, united effort. The handling of the Texas tomato crop is (1) re example, the growers now being atlle Mace their products in our markets, pay and yet compete against us, while we, worki
as we have been doing, are unable to transi ,ur plums, pears or tomatoes to Northwestirn Canada, where thousands are hungering for he iruit that is spoiling by carloads in Ont.ario
rrchards. Two years ago thousands of bushcls rchards. Two years ago thousands of bushels
wasted in our district alone, not for the want of wasted in our district ack of a proper methon of listributing i
The Ontario Fruit-growers' Association must work out some system of handling such fruit for
local associations. They have a light to Gov rnment aid in this matter, and should demand A. As a member of the Provincial Committee on crview with the Minister of Agriculture and his nanayers on this matter, who showed a readiness oh help the fruit-growers in every way they could It sems to me a central cold storage ware-
house could be established in Toronto, to which ach day's pack of tender fruits could be expressed
hrough, and when a carload from the various hrough, and when a carload from the various
issociations was to hand, they could be loaded nto a cold-storage car and rushed through to heir destination. There are, no doubt, many ifficulties in the way of such a movement, and ommittee will only be too glad to receive them Come system must be undertaken soon to meet he demands of fruit-growers, and the sonner the
better. We cannot expect to be perfectly suc cessful the first season, but we must experiment would suggest that the Government send suple of practical men to California and Teras tems there. The handling of the apples is comparatively easy, and I have no doubt but that in a year or two, with proper methods of packing lose Government inspection and proper advertis
ing, buyers will come direct from Furope and the West, and pay cash down for our fruit, i. o. b. hipping point.
o-operative buving of boxcs with power sprayers (perative packing in central packing-houses, and Conperative selling of fruit, the fruit-gro *rr cal hok forward to the day when the fruit-rwowing famous as the California business.
We must bulv individual interests in the Whe must hury individual interests in the
common good, work patiently, and, above all, re frain from quarreling among ourselves. The
manufacturers find it to their interests to stand together in spite of individual differences. Why
not the fruit-growers? not the fruit-growers?
President Forest Fruit-growars' JoHNSON. ing Association Fruit-growars and Forward

The Coreless Apple. And his years they numbered nine: Rough and unpolished was he, alb
He constantly aimed to shine. 13 proud as a king on his box he While the hoys of his set looked wistfully
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

English Commission Men Frightened
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Much in Little. $\qquad$
En Frightened
$\qquad$
$\qquad$
$\qquad$
$\qquad$

receipt of the premium

$\qquad$

Herb Vagaries.

## By Anna L. Jack.

 It is interesting to rocall the vast importance thalour grandmothers for several generations were accustomed to give to the herb garden, and the quaint sayngs that surrounded these culinary adjuncts to the
winter stores. Even though the good George Herbert shut them out from his kitchen as "vanitios," they had a place in cottage or castle for their culture. Even in the monastery, the inmates were given a " " knowledge
of all salads and pot herbs whatsoever." Here were grown not only sage and thyme, mint and savory, parlerbs now fallen into disuse. First in the gardens of io-day for its fragrance and uses is the Labiat to family. for therr volatile oilis held in the foliago. Fven to brushng past a bed of either peppermint or spearmint Of the latter Gerarde wrote. "The smelle reioyceth the memory, and good for many maladios. But in these days It often goes by the name of fish mint, and ts the
 sesese
kitchen.
many
while sirtues, besides being a stanle in the the Romans and called ""pudding grass," because it was
used to sturf meats, and the compounds mado of an anlmal's interior, as sausage meat, etc.
Thyme was bell eved to strengthen the tongs, and to avert melancholy. It is said to have made the hed in
the stable at Bethlehem, but by what authority it not easy to trace.
The old saying, "Sowing fennel is sowing sorrow,"
and also, ". Whero and alko, "Whero rosomary fliurishes the lady rules,"
are well known, and Shakespeare recognized in many Ways the uses and pecullarities of herbs. Fven worm-
wood, that is stlll largely used, and taken in France under the name of absintho. ts commented on where he
"Thy sugared tongue, to bitter wormwood taste." It is Intoresting to know that there is a species of this
plant found to old-tashioned gardens, and known by the pecullar name of "old man," or "Southernwood"
 rragrance. What conld we do without ter parbeer
Tt was of parsley wroath were twhed for the victors in the Neman games. but in some way it fell into dis-
favor, probably beeause it became the custom for the
 its pleasant flavor to soup.
Along the fence of a felld, where fity years ago was an old garden, there still grows clump of carraway,
and as its white clusters turn to seed. the nelghoors "ome from far and near to gather it, so tenacious of life and persistent In growth is this plant. It is an
ancient herb, and keeps, too, its Aralic name, Karweya," while e th is much valued in oriental crokery,
as well as by the Germans. who use it in corthin knds
and in hanquets of the middle ages, and Shakespeare has Tustice Shallow say
We will eat a last year's. plppin of my own gratting
with a dish of carraway. It is not easy $t$ to tell in $n$ shart article of the many
Hant
 spring anemone ise
remedy anainst dise
later viter snys
The frrst spring-blown anomone, she in his doublet To keep him sate from pestilence, wherever he should And we all know the fragrant lavender, and the highlyscented mugk. So the vagaries of herbs have been
noted in all generations, trom the time even of the tithing of ". mint, antse and cummin". And in cach on theso savory products

soothing and a m healing virtue, but imperfectly under | soothing and |
| :--- |
| stood or app |

## Judged on Its Merits.

Find enclosed my subscription for 1905 .
nest
nsider the ". Farmer's Advocate the the best paper in its line. I taught school for eight line to all the best cducational papers and macazines published it this country; therefore sar
the "Farmer's Advocate ", is the best paper in
its its line, viz., the line or agracking you to coninue my paper.
Oxford Co., Ont

Popular in New Ontario. You will find enclosed $\$ 1.50$ to extend my subscription to your vighly appreciated up here in the District of Temiscaming. Evervhody whn
reads it here declares it to be the best farmer's weekly that he has read. N. W. EIJWARDS.

Home Culture of Strawberries.


## Strawberry Blossoms.-1. Perfect: 2 Imperfert

In May, when warm, spring rains have mellowed the ground, set out your plants, previously ordered
from some reliable seedsman. One hundred plants constitute a fair-sized strawberry bed, at an average cost
of a dollar and a half. Now occurs a slight divergence of ways and methods, according as one wishes-a a matted "strawberry bed,
or one where the plants are hilled in distinct rows. or one where the plants are hilled in distinct rows.
For general purposes, the former method is largely approved. The "hilled" beds may present a more uni-
form and neat appearance, but each individual plant

## 

Illustrating Proper Method of Setting Strawherry Plunts.-No. 1. Roots Not Spread Out: No.
Planted too Shallow ; No. 3.. Properly Sct.
requires mulching, else the berries will be gritty; the unners demand constant cutting, and for some unaccountable reason. .grubs ". beds than on the "matted ones." All things considered, a greater yield. with
less attendant labor, accrucs from the "matted" bed. In this case, the plants should be set about a part, the roots well straightened and spread in the the surface covered with well-rotted manure. Great


Fresh-picked and Inviting
care should be taken that the crown of the plant is not
so high that the roots are exposed to the air, nor yet so high that the roots are exposed to the air, nor yet
so deeply sunk that it is covered with earth : either Doring the first summer, some of the more ambil tious plants will athempt to blossom weakly. It is
best not to allow this. Nip of all aspiring buds, that ing effort of the following yenr h, lanket of tir first shoughs. In the spring weed carefully and spread with a dressing of hardwood ashes, fol-
lowed in about two weeks_by a light application of Mlants that arw not too (hose together, and wel
wieded, sometimes bear the third wear hut is is weded, sometimes bear the third year. but it is better
eronomy to set out a fresh bed with the young run eronomy to set out a fresh bed with the young run
ners, which have routed themselves on all sides of the parent plants. After the start, by keeping a bed
hhead, so to speak, one can enjoy strawherries in lux-


Sometimes a varlety is designated by "(B)"-bi-sexual. This plays an important part in the proper solection of Hhants and their consequent bearing results.
Hi-sexual or perfect varieties (the names are synonymous) produce flowers which contain both stamens and
pistils. $\quad$ They are seli-fertilizing, and can bear indepistils. The are selli-fertilizing, and can bear inde
pendently of the pistilate varleties, though a greater yield is forthc
Pistillate, or imperfect plants, protuce flowers which contain pistils only. They are lavish bearers when properly pollenized by perfect varieties, but when planted
by themselves they produce literally ${ }^{\text {a }}$ nothing but !eaves." A friend of the writer, ignorant of this important detail, bought a quantity of plants of Havernand, a
pistillate variety, which is prolific and satisfactory under proper conditions. The soil was rich ; the plants nnder proper conditions. The soil was rich; the plants
grew well, and blossomed profusely. They continued
To to grow till they stood knee-high, but not a berry crowned their maturity.
Subsequently, this same gentleman, having discovered his unistake, again had a bed of Haverland strawber-
ries: this time in conjunction with some staminate ries; this time in conjunction with some staminate
plants. Again, the soil was rich, the season favorable in every particular. From about $1-18$ of an acre of ground he picked, during the bearing year, 16 or 12
bushels of strawberries, while hal? as many more rottod
cn the vines, despite all efforts to keep pace with the cn the vines, despite all efforts to keep pace with the
supply. Picking grew from a wonder, a delight, to a supplalization. The different varieties of strawberries possess certain distinctive features in. flavor, color and anape. most garnet : others, still, are pale feesh-pink, so faintly washed with red that they present a somewhat heached appearance, which belies their delicious flavor
Among early varlitics, the Haverland proves very Among early varietics, the Haverland proves very
satisfactory in combination with such ataminate varieties as the Wilson and Downing, which bloom at the same time, as it is important they should.
The Wilson is a firm berry, rich and dark in color, and pleasantly tart. The Downing, though not large, is very aweet and
pleasant to the taste. Its ohief value lies in its earliness and fine favor
The Sharpless
The Sharpless attains an enormous size, but is not
very firm or regular in shape, being better for imme diate use than for canning purposes.
Howard's No. 41 is a eatisfactory late vaniety, mo dium color, good size and regular shape. It is a consplicuously all over Bine are also No. 5, Nick Ohmer, Marshall and Brandyr's list of favorites. It must be remembered that the growth of strawherries differs somewhat on different To the general run of people, "strawberries" stg-
nifies merely the flacild imitations, slowly sacging in their boxes on market garden carts, or along clty thoroughfares ; a "far cry" from the strawberries which cleam sparkling red beneath thelr covert of leaves on
one's own strawberry bed. Something subtly delicious and indefnable. lurking in the fiavor of these freshlypicked berrics, disappears, never to return, after they
have hours.
it is a luxury to be ahle to plick a handful, a ful or ten quarts of mellow, sun-warmed strawberrles
when and as you wish. It is no less a luxury to be when and as you wish. It is no less a huxury to
ahle to mive away luscious samples to onese frlends.
Brome Co Que.
M. SPAFFORD.

## The Fruit Trade with Ontario

Last summer. it will be remembered, Prof Reynolds, of the Ontario Agricultural College, ex perimented with two carioads or cender ins ding larger conslgnments of Ontario fruit 'to the ping larger
Northwest. At the time of the experiment the "Farmer's Advocate" gave a description of the experiment and quoted the prices realized, which, by the way, were quite satisfactory, both to the Ontario shipper and the Western buyer. Recently, however, Prof. Reynolds has issued a bulletin besed upon his experiment, in which he cites the objections of shipping fruit to the West, and shows that all may be obviated or removed. Which
fruit properly handled (the art of doing which the growers are rapidly learning), careful icing of refrigerator cars, and a reasonably fast freight service, the Professor asserts that peaches, pears,
grapes, plums, berries, etc., can be landed in Winnipeg in first-class condition in from six to seven days from date of picking, and that these ruits when kept at refrigerator temperatures will ${ }_{\text {As }}$ in so many other things, the freight service is the most serious interference with the shipment of fruits from the east, hut with a railway comand consumer at heart, this difficulty should easily he remedied, providing suffcient pressure is hrought to bear by all parties interested in the have , The Ontario Fruit-growers Association and it is hoped that the promis.d redress will
operative before the 1905 crop is ready to ship.

## To Prevent Potato Scab

 An Albertan reader asks how to treat pota toes to prevent scab, and in reply we give treal the Horticultural Division of the Minnesota Experiment Station (see bulletin No. 87). Corrosive sublimate was formerly advised, but formalin, used as below, is now recommended as equally efficacious and saferi to use. Corrosive sublimate is a deadly poison. The expense of formalin is slightly greater, but it does not amount to much in either case, since one pound of formalin, costingnot more than fifty cents, will make thirty gal lons of solution and is enough make thirty gal els of potatoes. This material the rate of eight ounces (one-half pint) of commercial formalin to fifteen gallons of water The
potatoes should be staked two hours in it potatoes should be soaked two hours in it. It
this method is used, the seed should bo planted this method is used, the seed should be planted
within two or three diays alter treatment. ${ }^{\text {This }}$ material gives equally as good results as corrosiv sublimate. It is slightly more expensive, but th expense is light in any case. It has, however
great advantages over the latter, in that it is not so dangerous, and being a lituid is eeaslly
diluted for use, and may be placed in any kind diluted for use, and may be placed in any Kind
of a receptacle. This material does not in any
way iniure the tubers way injure the tubers or mater them dangerously
poisonous. If the solution atands a long time it poisonous. If the solution stands a long time it will probably lose strength.
If
the tubers are exposed
several weeke before planting the scab germs will largely be destroyed.
It would be a good plan to turn such potatoes occasionally, in order to
expose them fully to the light. expose them fully to the light.
As the result of following.
As the result of following out this method of
preventing scab on potatoes at the Minm ment Station, for more than ave years they have
grown potato crops each year that have bene grown potato crops each year that have been
nearly free from this discase, and they believe thaty tree from this discase, and they believe
tharmers cannot afford to neglect this


NEWS OF THE DAY
Canadian.
The C.P.... wir bulld Important railway entensions
Nearly 1,000 more Ontario emigrants left the Union Station, Toronto, for the West on April 4th.
The turbine liner Virginian, a sister ship to the Victorian, is on her way to Canada with 1,500 Eritish
mmigrants. Mr. Frank Oilver, M. P. For Edmonton, has been
sworn to as Min minister of the Interior, to succeed Hon
Cliford Sifton
A serious opidemic of dysentery has broken out in Hull, Que.e. where deaths have been occurring at the rate
of nine daily. of nine daily.
Muskoka has asked the Onturio Govermmen
grant of 825,000 to aid the Free Hospital for cun-
gumptives.
gideration.
The request has been given favorallo conThe first through train on the Canadian Northern to Saskatchewan Valley Left Winniteg on Anpri1 3rd. Salle
of farm lands in the Far West are reported as much more active than last spring.
 The report of the Provincial Raillway Taxation Com
mission was
 earnings.
The new turbino Allan Liner, Victorian, arrived in
Halifax on the first of April. The turlinnas
 $t$ the entiro absen
An influential deputation from Prituce Edward I, land has interverved the Governmen ${ }_{i}^{\text {ing communtcation open }}$ nok for ask for a powerful icentreaker Immediat as possible,
Traverse.
While plowing over a Beld, near Windsor,



## British and Foreign.

 Seventy g1een poisoned.
It is propose
the U. S. . propose
A serious revolution against Turkish suzerainty has en out on the island of Crete.
Fifty miners were entombed by an explosion of gns in a mine at Zeigler, IIl., on April 3 r
A stranger, disguised as a Cossack, was arrested recently in the Czar's palace, Tsarkoe Selo. When
searched two bombs were found on him.

China is organizing armies, and arming them with the most modern weapons. Thousands of Mauser a

An immense canal, reaching from the Pacific Ocean
Le Lewiston, Idano, is to be constructed in the near
tuture, and will be used chiefly for the transportasion
A violent earthquake in British India has caused great loss of life. The roports are not all in yet from
he various districts affected, but it is feared that the death roll will extend into the thousands.
There is much suffering among the Chinese in the vicinity of Mukden, where 100,000 people have been left ing. Of these, 60,000 are being fed and housed in Muk den by the Chinese Government.
Admiral Rojestvensky, who is now on his way Coward Vladivostok, is said to be making a detour
lowards the cooler waters of the Southern Seas. order to rid his vessels of the barnacles which fastened
on them during the long stay at Madagascar, and were proving a serious hindrance to speedy navigation.

The chief of police at Lodz, Poland, has l,een killed
hy a bomb, and in further conflicts between the troops and Jowish Socialists at Warsaw, four men have been
killed and forty wounded. In Northeastern Poland the reasants are still on the march, cutting telegraph wires,
pillaging, and demolishing the houses of land-owners in their way

## shifte more the scene of interest in the Far East has

 Orient was thrown to to the sea. Upon April sth thenews that $\varepsilon 1$ vessels of Admiter of excitement by the squadron had been sighted, steaming slowly nast sacific pore northward into the China Sea. The vessels were visible for miles. The news has been received with much rejoicing by the Russians, who feared that the
squadron might encounter the Japanese somewhere among the perilous passages of the East Indian Islands Whether Rojestvensky will sail directly northward, or
loiter somewhere in the China Sea to await the arrival of Nebogatofis squadron remains to be seen. The ac hons of the Vladivostok squadron, which is still in the
harbor, will also be watched with keen interest, th
protabilities being that uno protabilitites being that upon the first intimation of the
near approach of Rojestvensky's vessels, it will sally out to harass Togo's fleet in the rear., However that
may be, within the next fortnight there is likely to be fought the fiercest sea battle since that of Trafalgar. The recent visit of the German Emperor to Tangier
which is held to have an important political signifin cance, is arousing much interest throughout Europe. It appears that the German Government has not been
satisfied with that part of the Anglo-French Treaty satisfied with that part of the Anglo-French Treaty
which nllows France certain privileges in Morocco
 of Morocco i, strengthening his depaitments of war and by the Sultan, and totally refused beluctantly necepter
who profess very litt tribal chiefs, who profess very little allegiance. Of late Germany has
stepped in and begun assuring Morocco that her author-
ity will the excrited

$\qquad$

## It Helps.

##  <br> $\qquad$ greatest success.

THE FARM BULLETIN
Eastern Ontario and Quebec maple sugar and syrup makers propose organizing and adopting a brand The Department of Agriculture proposes to establish the scheme for farm reforestry.
" You have the best paper (meaning the 'Farmer' Advocate and Home Magazine ') in Canada or anywhere
else." So writes Wm. Hastie, of Huron Co., Ont. It is announced that M. D. Wisdom, of Portland ment of the Lewis and Clark Exhibition, to be held at Portland during the coming summery
Mr. F. G. Bergen, of Ormond, Ont., who took in poultry-keeping, has been appointed manager of large poultry plant, owned by L. F. Swift, President of
the Unlon Stock-rards Chber Prof. W. J. Kennedy, of the Iowa Agricultural Col lege, son of Mr. A. Kennedy, of Vernon, Ont., has re
turned from his British and European tour, as a repre sentative of the U. S. Dept. of Agriculture. Atte
making his offlial report he will resume his collogg Newly arrived immigrants from the Old Country have been simply besieged at the Union Station, To some occasions so great that policemen were kept clearing a passage in the corridor. At the Immigra. tion Office over one thousand applications for help from armers fing in all parts of ario are on file. growers' Assoclation has appointed a Noagara Fruit Co assist Prof. Lochhead, of the Ontario Agricultural localit, in carrying out experimental work in thnt peste. Mr. A. H. Pettit urged the scale and other fruit experiment farm, as referred to in last week's. Jarmer's Advocate.'
stock-breeders as one of the men who helped turn the show herds of Hom. Thos. Greenway out for inspection,
and later at the Northern Minnesota Experiment Sto tion at Crookston, Minn., has been appointed manage of Sir Wm. Van Horne's farm at St. Andrews, Now Brunswick. Mr. Oastler, it will be remembered, won ment. ment.
kinds accial traind carrying samples of good grain of all
are making the States. A number of instructors of the Northwestern
colleges, and from agricultural culture of good seed a specialty, show farmers through the trains, and give all necessary explanations. A
marked increase in the quantity and guality of the graln grown in these districts is expected as a result of
the experiment. Refining Trinidad Sugar,-Mr. D. A. Gordon, M. fr Fast Kent, is about to try an important expert-
ment in his large beet-sugar plant at Wallaceburg importing Trinidged raw sugar to be refined during the
season when sugar beets latter can only be had for a fow monthatinable. As the early winter, the project to use the mill during the rest

## Annual Meeting Toronto Driving Club

$\qquad$ McBride occupled the president's chair, and there the Secretary and Treasurer were both highly satisfacAfter the election of officers a presentation of a the club, Ald. S . McBride. At the copular president of
thension of this presentation the secretary, Mr. H. G. Wade, who is
leaving in a few weeks to reside permanently in ottawa. Was presented by the members of the club with a gold watch and chain, suitably engraved. Suitable replies The election of officers resulted as follows: Presi-
dent, Ald. S. McBride ; Vice-President, Ifon. Treasurer, J. H. Lock ; Committee, H. A. Snow, R.
I. McBride, Mr. Lockrie. Cins. Verral James McFarren; Auditors, Ald. John Dunn and Ald. S. McBride A hearty vote of thanks was tendered to Burns \&
Sheppard, for the hospitality they have shown in all

## Good Common Whitewash

$\qquad$ or outhouses and . handfulueach of sifted wond ashes and clean larrel salt, with a pint of
soft soap well stirred in, nnd add slacked lime until
Olick as good hultermilk; applying plentifully with a Milick as good huttermilk; applying plentifully with a
lirush. For inside wals. tanke one bushel of unslacked
lime, three pounds of sumar the three pounds of sugar, five pounds of salt; slack through a stexe, and reduce to the proper consistency
with cold water, npplying with a prush This is recom-
mended

Ontario Veterinary College Graduates On March 30 th, 92 were added to the 2,767 grad-
uates who had previously passed from the Ontario Vetuates who had previously passed trom the Ontario Vet-
erinary College, Toronto. The gold medal given by tho erinary Conege, orar Association, for having passed the best general examination, was awarded to Wm. Lenton, of Wawanesa, Man. The Principal, Andrew Smith,
F. R. C. V. S., presided, and on the platorm with him were Rev. Dr. Armstrong Black; Professor Harrison, Guelph; C'ol. Lloyd, Newmarket; Dr. Cowan, Galt ; D King Smith, and Dr. J. T. Duncan. than was usually given by veterinary a closer stud than was usualiar given to veterinary students to path-
ology. Veterinarians took a too narrow view of their profession, and he suggested that they should study sanitation, physiology, the hygiene of mill, and should
give more attention to the inspection of meat. give more attention to the inspection of meat, a line
in which Europe was far ahead of Canada. By doing these things they would help themselves and elevate their profession.
The list of graduates was as follows: F. J. Ander
son, Thompson, North Dakota, U.S.; Francis W. Ander son, Thompson, North Dakota, U.S.; Francis W. Ander
son, Highland, New Jersey, U. S.; H. Howard Bair son, Highana, New Jersey, W. . H. Howard Bair
Belvidere, New Jersey, U.S.; W. E. Baker, Demorest
ville, Ont.; Clyde F. Beamer, West Union, Iowa, U.S. ville, Ont.; Clyde F. Beamer, West Union, Iowa, U.S.
Geo. W. Benjamin, Rushford, New York, U.S.: James W. Geo. W. Benjamin, Rushford, New York, U.S.; James W
Broadfoot, Russell, Man; A. H. Brother, Toronto Junc tion, Ont.; E, A. B. Bruce, Cheltenham, England; Frank A. Bunnell, Waverly, N.Y., U.S.; Reaben A. Byer, Mark
ham, Ont.; Edward Bailey, Uxbridge, Ont.; Geo. A. ham, Ont.; Edward Bailey, Uxbridge, Ont.; Geo. A
Campbell, Mohawk, Ont.; Ralph w. Carmack, Dana Campbell, Mohawk, Ont.; Ralph W. Carr, Bulalo, N.X., U.S; Frederick Chapple, Barline, Ont.; Ernest E. Chase, La Farge,
Wis., U.S.; Geo. L. Clark, Columbia City, Ind., U. S. A. R. Crooks, Scotland, Ont.; Henry A. Coxe, Miton
Ont.; Benj. Matt. Deavenport, Starkville, Miss., U. S.
J ohn A. De Cow, Middlemiss, Ont.; Georve H. Dedolph Tigerton, Wis., U.S.; J. D. Delaney, Independence, Iow U.S., Fred H. Dettman, Pigua, Ohio, U.S.; Thoma
Drown, Mitchell, Ont.: Cyren B. Estey, St. Cloud Drown, Mitchell, Ont.; Cyren B. Estey, St. Cloud
Minn., U.S.; John F. Fulcher, Forest, Ont.; W. H Galbraith, Brampton, Ont.; H. J. Gordon, Teeswater
Ont.; Nathan G. Gray, Ledyard, Connd, U.S. Edward S. Greenwood, Douglas, Man.; Archie L., Hagkerty, Wes Winfield, N.Y., U.S.; Henry J. Henrickson, Syracuse
N.Y., U.S.; William Hilton, Winnipeg, Man.; Robt. Le Humphrey; Bluemont, Va., U.S.; Mell Frazer Jackson Auburn, Ala., U.S; Conrad J. Johannes, New Dundee
Ont.; Micajah J. Jones, jun., Blanchester, Ohio, II. S. A. Star. Keeler, Ottawa, Ill., U.S.; Harmon R. Kidder
North Warren, Pa., U.S.: William Kime Chatham, Ont Anson Knight, Sardis, B.C.; J. Franklin Lavery, Sun
derland. Ont.; Andrew N. Lawton, St. Thomas, Ont derland. Ont.; Andrew N. Lawton, St. Thomas, Ont.
Wilfrid Lenton, Wawanesa, Man.; Alvert M. Lloyd, Kes wick, Ont; F. H. S. Lowrey, Picton, Ont.; James D McCarten, South Bend, Ind., U.S.; Harry C. McCartney
Ellenville, N.Y., U.S.; Robert A. McCartney, Ellenvill Ellenville, N.Y., U.S.; Robert A. McCartney, Ellenville,
N.Y.. U.S.; James A. McCreight, Brandon, Man.; James T. McFadden, Woonsocket, R.I., U.S.; Donald W. Mc Leish, Markhill, Ont.; F. A. McNally, Toronto, Ont. J. C. McNeill, Walkerton, Ont.; George Ulius Marchan
Mt. Eaton, Ohio, U.S.; C. A. Matthew, Coalport, Pa Mt. Eaton, Ohio, U.S.; C. A. Matthew, Coalport, Pa
U. $;$ Wm. A. Meiser, Meiserville, Pa., U.S.; James Molison, Natick, Mass., U.S.; Fred J. Montague, Car Mich., U.S.; C. F. Moore, Lumsden, N.-W. T.; David B Sycamore, Ohio, U.S. G. Wyndham Newton, Chelten haw, England; N. Peter Olsen, London Junction, Ont. David R. Philip, Rochester, Montana, U.S; Walter W Pugh, Toronto, Ont.; David H. Pyke, Elmwood,
H. H. Ross, Burford. Ont. Robert K. Russell, Toront Ont.: Frank A. Scott, Traverse City, Mich., U.S.; W
A. Scott, Rockford, Ntcola Valley, B.C.; Harry Sears, Pittsfield, Mass., U.S;; Charles H. Solt, Arling
ton, Ohio, U.S.; O. I. Spidell, Wilmot, Ohio, U. S ton, Ohlo, U.S.; O. L. Spidell, Wilmot, Ohio, U. S. .
(has. B. Stirling, Mt. Pleasant, Mich., U.S.; Oliver C. Stoner, Fernhill, Ont. : Cecil L. Thompson, Newton
Kansas, U.S.; Henry N. Thompson, Buissevain, Man
John Thompon Strathroy Ont. Miton R. Thynge John Thompson, Strathroy, Ont.; Milton R. Thyng
Morton, N.Y., U.S.: A. La Verne Tiffany, Dimock, Pa Morton, N.Y., U.S.; A. La Verne Tiffany, M. S, Jua Tornguist, Buenos Ayres, Argentina; GGo. W. Valentine, Waterville, N.Y., U.S.; John C. Wainright, Strath

## Put Neck Back into Joint.

$\qquad$ veterinary adviser of the " "Farmer's Advocate,"" re placed a dislocated neck in a horse that had, in or the
ing himself, put it out of joint by a wrench of ing himself, put it out of in
halter. Treatment consisted in dealing the distension a heavy blow; then as the horse collapsed men holding the halter jerked it sharply, the vertebre slipping back with a sharp click. After lying stunned for three hours
the horse got up and began to eat oats. Dr. Mole feels assured the recovery, which seems complete, "as unique in the annals of veterinary practice. Neath
usually resulted before operation, due to the rupture of the numi-gastric nerve, causing suffocation. Should an nimal survive replacement of the vert
followed within a week or so.
I received my premiums, the reading glass and
harmonica, and am much pleased with them. I harmonica, artid am much pleased with them. I
think they are all right, and will try to get some think they are all right, and will try to get some
more new subscribers.
LLOYD SMITH. more new subscriber
Elgin Co., Ont.

The National Record-keeper.
$\qquad$ well as our readers generally, will be pleased to view in Mr. William Austin Clemons, who a couple of months ago, under authority of the Dominion Minister of Agriculture, Hon. Mr. Fisher, took charge of the preliminary Wark in connection with the supervision of the proposed ational records. As announced in a recent bisue, the of the breeding fraternity. The Executive Committee of the Shorthorn Breeders' Association a few days ago placed themselves on record, endorsing Mr. Clemons' appointment as Registrar-General. Left unhampered by political or other improper influences, his record for staunch integrity and independence of character will public of the character of the pure-bred livestock recards under his charge, and bearing the national imMr. Clemons was born Octoler 7 th, 1870, in the ownship of South Dumfries, County of Brant, Ont., and is a son of Mr. G. W. Clemons, the well-known Treeder of Holstein-Friesian cattle, and Secretaryeducated at the local rural school, the St. George pubic school, and the Hamilton Collegiate Institute, taking his second-class teacher's certificate at the age of fiftegn. After leaving school he returned to his father's


Mr. W. A. Clemons.
farm, and ussisted in establishing and building up the Maple Hill herd of Holstalus. For six years, from 1894 to 1900 , he had charge of the office of the Holwith pedigrees and experience in keeping livestock records. In 1900 he went to Ottawa, as Secretary to the Live-stock Commissioner, and the Department of Agriculture, under Prof. Robertson, a position he has occupied up to the present time, demonstrating himself to be a most careful and competent officer. He married in 1903, Helen Jean, daughter of Mr. David Nairn, Principal

Best Investment.
As my subscription to your valuable paper has ex-
pired, I enclose $\$ 1.50$ for renewal. 1 constder it the West spent dollar and a half that I can invest in any cate " for twice the money. I have to acknowledge on behalf of my daughter, the receipt of premium of it. Wishing you every success.

## Even in England.

Enclosed please find remittance for two re own as usual. Everybody looks for the "Farm er'B Advocate," even in England. TEO. TOLCHARD,
Bruce Co.

Re the Taxation of Farm Woodlands. the Editnr "Farmer's Advocate ": Sir, - was glad to note your editorial in your iseue
of March 23 rd, advocating a law empowering munici-
palities to exempt from taxation such woodlands as are palities to exempt from taxation such woodlands as are
properly cared for. In view of the great value of a wood-lot as a part of any farm, and of the rapldity that there should be no two opinions as to the wisdom of this policy.
I note in th
I note in the report of the Director of Forestry for
1901, that the farm woodland Middlesex and the six adjoining counties, decreased from about 940,000 acres in 1896 to about 640,000 acres in 1901, a decrease of 32 per cent. in five years. After making ample allowance for errors by township assessors,
the falling off is to be regarded as little less than astounding. The average per cent. of woodlands has astounding. The average per cent. of woodlands has
fallen in thess seven counties from $22 \%$ of the total area to $15 \%$ or somewhat over $1 \%$ per year. That the tain. The hope of arresting this deforestation Hes, it The hope of arresting this deforestation hes,
seems to me, in three directions: (1) In an appreciation on the part of the farmer that it is worth whlle matter of dollars and cents. (2) In the diffusion of knowledge as to the How of the matter; how to im-
prove the wood-lot by the use of the axe : how to bring prove the wood-lot by the use of the axe, how to bring
about favorable conditins for rapid growth and good about favorable conditions for rapid growth and good
natural reproduction ; how to plant, and how to get good planting stock, and a dozen other hows; and (8) by judicious and equitable taxation.
It is undoubtedly true of several of the neighboring
States- particularly the great forest States of Michigan States-particularly the great forest States of Michigan,
Wisconsin, and Minnesota-that unwise taxation has been at least a close second to fire as a destroyer of the forest. They have abundantly proven that by
means of an unjust tax law, legislatures may devnstate means of an unjust tax law, legislatures may devnstate
foresit lands in a wholesale manner. It is equally true that by judicious tax exemption they may do much to stimulate the cause of forest preservation and exten-
Such exemption should, in my opinion, he limited
to wood-lots reaching a definite standard wo promise. This standard should be within the reach of all intent on improving their woodlands. The exemption should the exempted property the exempted property; and only a reasonable propor
tion of any property should be oxempted.
JUDSON F . CLARK,

## National Live-stock Convention

On Thursday, April 20th, delegates from the vari-
ous live-stock associations will meet in convention at the Imperial Building, 138 Queen St., Ottawa, to decide upon the constitution and rules to govern the National Association of Canadian Stock-breeders, and to elec
officers for that body. The comnittees appointed by
the Clydesdale Hackney Shire Sheep, Swine Short officers for that body. The commiltees appointed by
the Clydesdale, Hackney, Shire, Sheep, Swine, Shorthorn, Aberdeen-Angus, Hereford, Ayrshire and Jersey
Associations, to complete final arrangements in connecAsoociations, to complete final arrangements in consey
Ation with the nationalization of the livestock records, tion with the nationalization of the livestock records
will meet at the same place on Wednesday, April 19th Both meetings will open at $10 \mathrm{a} . \mathrm{m}$., and continue
 inote.-We trust that, in response to the call of the Live-stock Commissioner for the second national convention, there will be a large gathering of stockmen at Ottawa on April 19th and 20th, in order that every step in the nationalization scheme may be fully and fairly considered by those most directly interested, and in order that every necessary precaution be taken to rol the breed societies to retain conThe import respective records, registrars and funds.


## A Song of Seed Time. By Frank H. Sweot.

## MARKETS

## Toronto.

Live stock.

| Eixport Cattle-Choice are quoted at |
| :--- |
| $\$ 4.75$ to $\$ 5.25$, good to medium at $\$ 4.50$ | to $\$ 4.75$, others at $\$ 4.25$ to $\$ 4.40$, and bulls at $\$ 4$ to $\$ 4.2 \mathrm{~s}$.

Butcher Cattle-Good to chotce, \$4.60 to $\$ 4.80$; fair to good, $\$ 4.10$ to $\$ 4.50$; mixed lots, medium, $\$ 3.2 \Xi$ to $\$ 3.90$, and common at $\$ 2.50$ to $\$ 3$. Cows sell $\$ 2.50$ to $\$ 4$, and bulls at $\$ 2$ to $\$ 8$.
Stockers and Feeders-Short-keep feed-
ars are quoted at $\$ 4,65$ to $\$ 5$, common \$ 81.30 to $\$ 3.46$ with $\$ 1.75$ to $\$ 2.50$ for bulls.
or bulls.
Milich
Milch Cows- $\$ 30$ to $\$ 65$ each
Cakives- 8 ct . to 6 c . per pound, and $\$ 2$
Sheep and Lamb-Export sheep are
quoted at $\$ 8.75$ to $\$ 5.50$ mixed $\$ 4$
quoted at $\$ 8.75$ to $\$ 5.50$, mixed at $\$ 4$
o $\$ 5.25$, grain-led lambs at $\$ 7$ to $\$ 7.50$,
bernyards at $\$ 5.50$ to $\$ 6.50$, and springs at $\$ 8.56$ to $\$ 6.50$.
Hoges- $\$ 6.25$ per cwt. for choice light
weights, and $\$ 6$ 友
eights, and $\$ 6$ for heavie
ghain, flour and feeds Wheat-Ontario-Market dulle millers
olding fair supplies, and with four for holding fair supplies, and with flour for
oale, not being active buyers. No. 2 red sale, not being active buyers. No. 2 red
and white, $\$ 1.03$ to $\$ 1.04$; spring, 96 c . to 97 c. , and goose, 89 c . to 90 . . Manitoba easier, for delivery at lake ports on the opening of navigation quotations
are: No. 1 northern, $99 \ddagger$ c.; No. 2, 93 c.; No. 8, Noc.
Flour-Dull,
Flour-Dull, with millers looking for buyers : 90 per cont. patents, $\$ 4.40$ t
$\$ 4.50$, buyers' sacks, east and west ; 150 o 20 c . higher for chofce. Manitobe. to
$\$ 5.50$ to
$\$ 5.70$ for
first patents,
$\$ 5.10$ to
to 85.40 for second patents, and $\$ 5$
85.30 for bakers'. 85.30 for
millfeed
$\$ 18.50$ for shorts, for car lots, east and west; Manitoba, $\$ 21$ for shorts, and $\$ 18$ or bran
Rarley 45 c . for No. 8 extra, and 43 c . for No malting, outside, Toronto freights.
Corn-Canadian, firm, at 47 c . to for yellow, and 46 c . to 47 c . for mixed.
fo. ob, Chatham freights. American co tinues firm, an advance being expected No. 3 yellow, 55 c . to 55 dc c; mixed, 54 fc .
to 55 c ., on track, Toronto. to 55 c ., on track, Toronto.
Oats -40 c . to 41 c . for No. 2 . west, 42 c . east. Peas-68c. to 69c. for No. 2, west and east, and 70 c . for milling.
Buckwheat -59 c . to 60 c ., east and west Butter- COUNTRY pronuce.
$\begin{gathered}\text { Butter- } \\ \text { Creamery, prints } \\ \text { do, solids }\end{gathered} \ldots . . . . . . . . . . . . .23$ c. to 25
do. solids
Dairy
aubs, medium
do, inferior
Dairy, lb, rolls,
do, large r
do, medium
Cheeste-Job
for large, and
and
Potatoes-Onta
on track
eastern,
Beans-Hand-pi
prime, $\$ 1.65$
$\$ 1.25$
to
$\$ 1.50$
Hops-Steady, at 32c. for
Maple Syrup-Pr
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sians-nest box wanted stone wal Sans-nest box wanted; stone wal

- ventilation-young cattle; Sir Wm. - ventllation-young cattle ; Sir Wm.
Ihawson's books; rural telephone
supplivs; cement, sand and gravel


## Life, Literature and Education

The ideal social state is not tha in which each gets an equal amoun - wealt, but in which each gels the general stock."-[Henry George There is a burden of care in get biches, fear in keeping them, Cemptation in using them, guilt anusing them, sorrow in losing them and a burden of account at "ast thew Henry

The Speculation Devil-fish. There is a street in New York Uity
-not the only one of its kind in the world, or even in America, by any
means, yet one 1 spical of its kind means, yet one ispical of its imrndbuildings towering on either hand, their plateglass windows labelle.
with the names of brokers and firms, with the names of brokers and firms,
trusts and corporations. Prosaic enough, commercial enough-all this -and never a sign to reveal the
depths that yawn behind-abysses indepths that yawn behind-abysses in
deed, yawning indeed, mysterious in deed, to the uninitiated who pass along the crowded street, not on of whom, perhaps, whether he knows his mite or his thousand mites the great "devil-fish,", as Frank Nor-
ris has so aptly called it, of which ris has so aptly called it, of which
this office or that may be but the siig and symbol.
But the head and center of this great devil-fish community, perhap lies a little fur ther up the street
Reaching it, you would recognize a o in at a very ordinary door a "ip a very businesslike elevator ta The most modern of " visitors' gal
leries." As you go up, possibly
distant humming reaches your ear, a confised clamor of voices, for the
monster is here noisy enough, though
ins monster is here noisy enough, thomgh
is tentacles are spreading constant
ly, silently, slimily out over the whole land and a score of lands, sucking,
drawing from the people-the farmer thop, the rich man in his office the opper and silver and gold which are there much a fre Perhaps it orcurs to a curious scene. is Pandemonium got up in twentieth-
century style.
Imagine it-an immense business office, with telerraph heys clicking incessantly everywhere,
it scems, and telephones ranged t,y wh its boy waiting to answer on the first twirl of the bell. The whole
af the great floor, which is covered Whe scraps of paper, is occupicd by ${ }_{4}$ sowding and jostling one anither Wilt downward. with steps around
thie sides like an amphitheatre, is alThe sides like an amphitheatre, is al
crowded with them-men crory
where: well-dressed men and poril.

sudden slump, the value goes down,
perhaps, to 30 , and the chances are that he is ruined, while his nard- What dosecthis mean ? Why he had earned money has gone into the cof lost $\$ 13,000$ fers of the men " "behind," who have engineered the whole affair.
Simple it seems when told, and vat many will go back again and again to meet the same fate. There is always the possibility of the lucky turn, or the game would soon play
out, and the men behind see to it that there are enough lucky turns to keep the game going. So the tried are always enough of the areen willing to step in and be fleeced. And this fleecing is carried on with im-
punity, for the victims come in of punity, for the victims come in of
their own free will, and who can punish a man or a number of men for taking what another man volun-
tarily offers? tarily offers? Simple enough the
whole operation seems, yet it is far from being simple, for scarcely a glinpse has as yet been given of the trickery, the endless machinations and subterfuge and dust in the eyes,
used by the directors of these Wall Street operators to beguile money from the unwary. Oceasionally
some his financier grows sick of it some hig financier
all and " tat tles."
Fors instance, a


The richest man in the world.
No sulnsation has been caused recentLawson, of Boston, hinself a multiof the foremost in the " 'System ' which ho condemns, who ostensibly Trith what he can of the deviltry at the lack of it all. And yet there is more tin be told. Speculation is "Wick" concerns are flourishing ulative meshes. The manager of a
Canadian banking institution Canadian banking institution tells us last ycar, he had three applications twenty minutes about $\$ 50$, non had meen " dabbling day by mer d were geting "" cornered." Nocks, e would have suspected it of the

To come back, however, to the query as to how every man, woman and child on the continent may bo tions: It would surely seem that those who keep out of the muddle cause to fear. Yet such is not the case, for the tentacles of the octopus spread far and silontly, Although corporations, etc., are located in Wall Street, there are branches, known as broker's officos (bucket shops), which is equipped for the leeching business, and which, though often unsuspected even by the managurs and employes of them, usually carry
out this special business nobly. . Again, when stocks' aro down, an there is danger of a sudden panic these strong financial firms at head
quarters have no fear : they know quarters have no fear; they know
the banks are ready to loan them money at a high rate of interest 'This loaning is sometimes necessary hence the money honostly earned by
the poople and deposited in the vanks for sale-keeping, goos to up-
hold theso very hold these very institutions
whose business is the fleecing whose business is the fleecing
of the multitude. Once on the Stock trusts listed railway companies, etc, the the purses of the people prac Take in their own hands. stance. if it be stron enough-and strong enough it must assuredly be, or it would
not be listed on the Stock Exchange-it has only to say course, "A The pound of sugar shall sell for more, ", sugar and
straightway the deed is lone. Every, considerable sugar maanufactory in the country is
under control of the Sugar Trust, and so the price o every pound of sugar in the farmer, the mechanic, the pasiness man, simply has to pay more for it, hand out
his uney without warning of the few mill the coffors of the few men at the head with other things-coal, coalbe. An the strong companies, of course change listed on the Stock Ex trusts, e. gome of the stronges the Beef Trust, are not of these. But the principle is the same. One and listed or close corporations wethe been formed for the express purpose of getting moniy out of the public. ky their existence the people are a select few, good enough men, too in their way, exceit that they seem sale exerlook the fuct that a wholesaic extortion or oppressor is,
aiter all, mot to radically different are made richdazzlingly rich.
rockel is to conne, for in amounts to $\$ 900,000,000$
his money, so they say,
Carnegie his in "Steel. Carnegie his in "s steel,
lesser lights in railways, ever it may be. Those who call ever it may be. Those who call
things by plainer names, have a dif-
ferent version of it. After all, it is ferent version of it. After all, it is
but another reading of the old axiom, "One

## A Word by the Way.

Two ladies, both well dressed and evidently belonging to the higher walks of life, were going along a city street; one of them stopped and spoke a word to a dull, tired-looking baby on one arm and a basket on the other, in which she had a few bananas and apples and cheap candy for sale.
lady, Why, Helen," said the other, lady, what made you stop and
speak to that woman? What did you say to her?"'
a oh, nothing much. It was just a word or two by the way; that
was all. She looked so tired and discouraged, and I stopped to give her a fow pe
two to her.'
two to her."
A few minutes later the two ladies A few minutes later the two ladies
were in one of the great stores of the city, where they made some purchases, and while they waited for their change, the lady who had spokto en to the apple-woman entered into gave her half a lunch of violets. street, one of them said:
"Why, Helen, how could you be
so familiar with the shop girl? What so familiar with the shop girl ? What were you saying oh, not much of anything. It was just a word or two by the way. I thought she looked tired and a little ill, and she said that she did
have a severe headache. Did you have a severe headache. Did you
notice how she brightened up when gave her the violets
A word by the A word by the way ! A kindly
deed by the way! How many deed by the way How many bur hearts would be gladdened, how much weariness would be forgotten, how
smiles would take the place of frowns, how much more beautiful and infinitely better the world would be
if every man and woman, every boy ii every man and woman, every boy and girl, ast no opportunty a good ded by the way! Try it
for a single day, and see if it is nut one of the happiest days of your

The Weeping Pitcher

,


Seeking the King Draw me, we will run after Thee. I will seek Him Whom my soul What is it that I hunger for My GOD? my GOD : let me for once look on Thee As though none, else existed-We alone And Es $^{\text {spark }}$ C
Expands tit
Expands till I can say, even for myse: need Thee, I feel Thee, and I love
Thee !"

I have just been reading Henry Van Dyke's beautiful little romance, "The Story of the Other Wise Man," which
as he explains, came to him one sleepless night. He says: "I I hav never felt as if it were my own. I was a gift. It was sent to me; and
it seemed as though I knew the Giver, though His name was not spoken." The story of Artaban-the with the other Magi to Judea, tak ing with him three magnificent jewels to present to the new-born King.
One of these jewels was a sapphire One of these jewels was a sapphire
blue as a fragment of the night


$$
\begin{aligned}
& \text { sky " the second was a ruby y } \\
& \text { "redder than a ray of sunrise }
\end{aligned}
$$

"redder than a ray of a runise",";
the third was a pearl, "as pure as
the third was a pearl, "as pure as
the peak of a snow mountain at twi the peak
light."
Artaban had planued to met his
companions at laatylon, hut, as he hurried to the meeting-place, he dis-
covered a dying man lying vight
across the road. Then came a moacross the road. Then came a mol
ment of painful indecision. This strunger had no real claim on him, go without him to seek the King.
the man would certainly die. Should of a deed of love? One short prayer
for guidance was flashed up to the "Or guidance was flashed up to the hesitated no longer. After a long hesitated tedious delay his restoratives proved successful, but not without
great cost to Artalan. The caravan hreat cost to Artaban. Corced to part with the sapphire in order to buy camels and provision
for the long journey. for the long journey. Reaching
Bethlehem at last, another disapBothlehem at last, another disaphad departed into Fgypt in order to
escape the wrath of Herod. While escape the wrath of Herod. Whle a cottage and caressed her little baby the soldiers began their drcad-
ful slaughter of the innocents. There ful slaughter of the innocents. Ther
was no hesitation this time. Artaban's face, as he stood blocking up the doorway "was as calm as though he were watching the stars. He held
out to the captain of the band soldiers the great, glistening rubyparting with this scond jewel in
order to save the life of the bally in order to save the life of the baly in the coltage hehind him. Forced by had "spent for man that which was meant for God," and wondered sadly
whether he should ever be worthy whether he should ever be worthy to
see the face of the King
dying on a cross. One last hope drew ehe feeble be in time to offer the pearl as a ransom for his Master's
life. But again he was stopped. A young girl was being dragged down soldiers. She threw himself at his feet and begged him to save her for the sake of the "God of Purity." He,
who had so long lived a life of love had no choice now. The pearl of tender, living lustre," as he gave it for the poor maiden's ransom
Now, Artaban had nothing but his love to present to the King if he should find Him. But suddenly there was an earthquake, and a heavy tile
fell from a roof above, striking hin fell from a roo
to the ground.
Then some softiy-spoken words in his own tongue sounded like music in the distan
swered : ./ No
I Thee an my hordered and fed Thee or thirsty, and gave Thee drink? looked for Thee: but I have never seen Thy face, nor ministered to Thee my King. he answer: as thou hast done it unto one of the least of these My brethren, thou
hast done it unto ME." The pale face of Artaban was lighted up with wondering joy ; for his long journey was ended, his treasures-sent on be fore had been graciously accepted.
"The Other Wise Man had found the Strange and mysterious is the at traction of Christ. Quietly, secret-
ly, yet with irresistible power He ly, yet with irresistible power He
draws souls after Him. Like Artaban, we press on, seeking our King. Perhaps we also think that the op-
portunities of service which lie ipht in our path are interruptions and hindrances instead of helps. But, in our search for Him, let us never for get sheth not his brother whom he hath seen, how can he love God Whom he Artalaan only understood the glory but why should we not live always in the sunshine? That wonderful " Inasmuch " text can transform the most commonplace life, changing dif
ficulties into opportunities, weary duties into loyal service. We need not seek year after year to
find the King, for He is always at our side, and will pladly accept our gifts-even tre gold of a secret consecration revealing itself in the
whiteness of a life purer than a pearl whiteness of a life purer than a pear
of great price : a love more precious than any sapphire, proved by a glad self-sacrifice brighter than the cost-
ly blood-red ruby. Such jew y blood-red ruby. Such jewels as -upon His heart, when He goeth in unto the Holy Place, for a meinorial before the Lord continually.'
Surprises there will when God's great light is turned on the lives of men. Some who think they have offered great treasures, cived their reward-the reward they ovetca-even the praise of men and The pleasant consciousness of self-
satisfaction.
While think they have had no influence for uiet because their lives have leen quiet and unassuming, may find that selves and the world so insigniticant into the Treasury, are jewels indeed and dear to the heart of the King. Oh, let us keep unsleeping guard over
our motives: for, terribly often, examination will prove that our gifts, if they are the expression of love at Men's circumstances may change but the deepest instincts of human The jure are the same in every açe. than the short pleasure of getting. deed, the child of Love will always walk hand-in-hand with Joy. The strained the wise men which con-

THE FARMER'S ADVOCATE.
and country, not for what they might gain, but for what they might give has Christianity is far more than a mora force; it is the visible sign of one of the mightractive power of Person even Ine Innumerable thinkers agree
ality.
in declaring that in declaring that the heart of man can only rc3t on a "Person." No
abstract philosophy can satisfy the soul which is, and must ever be, athirst for the "Living God." Who can deny Liddon's statement that this strong passion or cesire of with all the agonized earnestness of a disappointed and tortured sense-speaks not merely or chiefly in the churches newspapers, in social gatherings, in political assemblies.
What do we look forward to most in our visiols it is not chiefly the re
veil? Surely it lief of a freedom from pain and temptation, but rather the joy of behold
ing the King in His beautv. the ful ing the King in His beauty the ful-
fillment of the promise-so dear to the heart of every loyal, servantThey shall see His face
Would not the loss of Him be greater Than if the whole world went from you? What, without Him, can it give you?
Apart from Him, life is a grievous With Him a pleasant garden.

I speak to those who count His service the great joy of their lives-
taking it for granted that others will hardly take the trouble to read these weekly talks-and to you I say: Don't get discouraged in your up-
ward climb, for it is the most ward climb, for it is the most ria-
tural thing in the world to want to mount higher. God has made us to climb, and no one can find real satisaction in standing still or slipping own hill
Man was made to grow, not stop;
That help he needeth once and needs no nore
Having grown but an inch by-is withFor he hath new needs-and new helps to these.
This imports solely, man should mount on each
New height in view ; the help whereby New height in view ; the help whereny
he mounts-
The ladder-rung his foot has left-may Since fall, things suffer change, save Since all things suffer change, sove
GOD the Truth.
Man apprehends Man apprehends
stage
Whereat earth's ladder drops-its service Whereat earth's ladder drops-its service
done ;
And nothing shall prove twice what
$\qquad$
Character.
How you have hated yourself during temptible, questionable thing ! Yet you have tried to console yourself with the
great good you could do with the money you made by it. It is astonishing how
unen will play with the poison of dishonesty, which is so insidious at first,
which intoxicates and stimulates one but which intoxicates and stimulates one, but
paralyzes and kills later. If every youth were only taught that to
man must be greater than his occupa sale at any price ; that he will always be fich so long as he retains it, and just in and weak and unhappy and a failure ne matter how much money he may have just in proportion to the weakness of with character; if he only started out
foilure is onvent that only one real of self-reep cost, the barter of one's character, either for pleasure or for money;
if the youth were only taught that he if the youth were only taught that he
cannot afford to deceive even a little bit cannot afford to decelve even a selling, o,
In the quality of goods he is sel
in the quality of the service he is giving what a revolution would come to our
civilization !

## Mr. Jones-See here ! This horse you sold me runs up on the sidewalk every

 Bold me runs up on the sidewalk everytime he eees an auto.
Horse Dealer-Well, you don't expect a Horse Dealer-Well, you don't expect a
afty-dollar horse to run up a telograph
month.
It is it neede
preciated.

One Spring Shrub.
By Mrs. Anna L. Jack:
A child of the city came in with a A child of the city came in with a
spray of white blossoms in her hand, asking, "What flower is this?" It had been broken from a clump of ium, and was full of the mysterious charin of early spring. "It wasn't as pretty as this yesterday," she said, can't you give me a smaller name ?" So we called it " Shadbush," and "Juneberry," the first, because it blossoms when the shad are coming up the river ; and the last name, because the purple fruit ripens in that It is said to be very pleasant to the taste. It may be ; but only the robins, or blue jays, or some other
feathered raiders know for certain what a real feast of them can be, for no ripe berries are seen on our bushes, though we have watched for
their ripening. But the long sprays their ripening. But the long sprays
of pure white flowers are charming, of pure white fowers are charming,
coming, as they do, in early spring,
standing like ghostly sentinels in the garden and woodland, before other
trees attain full leaf, and delighting the plant-lover with a profusion of graceful loveliness.
ness is a decided actuvisition in ardinorthern climate, and yet it is a favorite in more southern countries,
where it is called "Service Berry," where it is called " Service Berry,"
and much valued as a confection for the table. But the trees are often

cut down in order to reach the fruit and no thought given to futur
beauty and usefulness.
I wish we had one in our fron yard in town," said the little girl longingly, as she placed her spray
in a vase on the talle. Juneberry in a vase on the table. Juneberry son of the year, and deserves more notice than it gets, being quite over-
looked among the novelties that are looked among the novelics that ar early flowering and delicate beauty,
it needs only to be secn to be ap

A Request.
Dear Flora Fernleaf,-Will you be that will grow up every spring without fresh seed; also a list of the
creeping vines that grow fast all creeping vines that grow fast all
over the house or porch, and oblige over the house or porch, and oblige
one of your flower lovers? Ans-All plants BLUE BELL. Ans.-All plants marked in the
datalogues as "perennial " grow up catalogues as "perennial " grow up
year after year. Some of them, however, cannot stand our winters, and require to be taken into the cel-
lar every fall, but the following will lar every fall, but the following will
be found perfectly hardy, requiring little care, other than to keep the grass from encroaching, and per haps the putting on of a light cov-
ering before winter sets in : WhiteAchillea, White Columbine, White Percnnial Phlox, Whirlwind Anemone, White Peony, White Double Daisy,
Lily of the Valley. Blue to purple Lily of the Valley Blue to purple
-Monk's Hood, Perennial Forget-Me-Not, Perennial Larkspur, Blue Iris, Scabiosa Caucasica. Pink to criam, Bleeding Heart, Pink or Crim son Peony, Pink or Crimson Perennial Phlox, Michaelmas Daisy, Or $\begin{array}{ll}\text { iental } & \text { Poppy, } \\ \text { flora. } & \text { Gaellardia } \\ \text { Bright } \\ \text { red-Sardinal } & \text { Flower. }\end{array}$ Yellow.-Golden Saxatile, Coreopsis Lanceolata, Golden Glow, Iceland Popy, Siberian Lily, Helianthus, Hypericum. If some of these do no show any flowers the first year do not be discouraged; they will bloom In regard to vines, we would sal that if you wish quickly-growing
how that will make a considerable try the Japancse Kudzu vine, Japanese Hops, Dutchman's Pipe, Cobooa vine, or even Gourds. For veranda
or porch vines, Japanese Morning or porch vines, Japanese Morning
Glory, Canary Vine, Cinnamon Vine, Balloon Vine, Perennial
Peas, Moon Flower Peas, Moon Flower or Wild
Cucumber would probably be satis factory. If, however, you want to plant strongly-growing, woody vines, which will be there for keeps, you will find the following very desir-
suckle, Virginia Creeper, Trumpet suckle, Virginia Creeper, Matrimpony
Vine, Wistana, Chinese Mation
Vine, or any of the hardy climbing

## Seasonable Hints.

Thin out asters, etc., to two inches
apart when they show the third apart when they show the third leaf, three-inch pots or little retton bags, filled with clay, placed side by side in a shallow box. When all danger the garden, clip take the box out to the garden, clip off the cotton, and
set the little lumps of clay in holes made to receive them. In this way they may be removed without any convenient to have these boxes about the house, one may set the little plantlets out in a "cold frame," which is simply a bed of rich soil,
made in a frame with glass over it The glass, of course, must be raised at the back for ventilation during the day, and
ting at night.

Shrubs and trees may be planted early in the spring before active growth has started. Roots of perenone takes care to keep plenty of clay about them, the plants will suffer othing by the moving.

Sow poppies very early in the you want to have strong, sturdysoms. As the seed is very fine, it may be well to mix it with sand
when sowing, in order to sow thinly enough. Frost does not harm poppies. If for any reason you cannot have a flower garden this year, plan for a

## Borrowing Trouble.

A woman with two small children entered a suburban street car. Such
an anxious face she mad. with a tense, worried look in her dark at hor pityingly. Only a hard, wearing life, they thought, could have given her that expression. She had not ridden more than a
hundred yards when the troubled hunded joepened on her face. She gazed up at the high belli-rope, as if
meditating a desperate reach ufter meditating a desperate reach ufter
it. Her anxiety communicated it self to the children, whose tiny faces became almost ludicrous little coples of he
asked a you wish to stop the car ?" asked a main next to her, turning as
Oh, no, sir, not yet," she sald " not till I get to Blank Road; but l'm wondering how I'll, get the con-
ductor to look round., " I'll see that he does," replied, kindly the does,. the man "The idea of her beginning to woriy already, "whispered a woman miles from here It was a pleasant country road that the car followed, with green
fields and wooded tracts sending whiffs of fragrance through the ope windows, but it is very doubtful if the anxious-laced woman felt any
pleasure in the ride. She sat stiffy pleasure in the ride. She sat stifify
upright till Blank Road was reached and when she alighted with her smal charges, a smile could hardly be re strained on several faces.
left in the car could truthfully say they did not share in some degree this same unfortunate habit of bor-
rowing trouble? Do all of us take rowing trouble? Do all of us take
the pleasures of the life journey as they come to us, or do we too often Mose some of the wayside beauty be
cause we are fearful of trouble that cause we are fearful of trouble tha
may lie ahead. - TThe Golden Rule.
. Fussy Landlady (to new lodger):
"Well, slr, if you'll only tell me when

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Portralt of the Late Bishop Baldwin


The London Printing \& Llthographing Co. LONDON. ONTARIO

THE EXCELSIOR LIFE Insumance company.




qur Prize Competition.


$$
\begin{aligned}
& \text { Wably would not do for a } \\
& \text { right, being a real little mis- } \\
& \text { but he showed real presence }
\end{aligned}
$$

$$
\begin{aligned}
& \text { but he showed real presence } \\
& \text { acting so promptly. } \\
& \text { KINCADE (aged } 16 \text { yrs.). }
\end{aligned}
$$

$$
\begin{aligned}
& \text { King, March 1st, } 1905 \text {. } \\
& \text { Dorothy, Although a } \\
& \text { Mis our corner, I have always } \\
& \text { ysays with much interest. The }
\end{aligned}
$$

$$
\begin{aligned}
& \text { ays with much interest. The } \\
& \text { "nding is true, and, even if I } \\
& \text { ap prize, I shall not think } \\
& \text { of my hero. }
\end{aligned}
$$

A Boy Knight

The Food Value of the Potato.
By S. L. Richardson.
begin making experiments,
our domestic science class ow hecessary for you to under houses. We use those tin teaspoons which look broader than the ordinary tea spoon which is used at table. The
tablespoon holds four of these; the de sertspoon two. But the way of measur
ing is an important point, as the spoon
ful is not to be heaped nor yet scooped A knife is to be used when the the spoon, to make it level from the han
die of the spoon to the point. For measuring the larger quantities, tin half-pint cup with grooves running
round it, and dividing it into quarters other. The measurements are always to
pe level. starch.
Take a potato wise. Cut off a thin slice, and hold it giv to look through so as to see how it Pare a potato and grate it into a
piece of cheesecloth, which has been laid
ver a small howl grated, pour a little water over it, and Wash within or through the strainer.
Notice the fibre or cellulose which is left in the cheesecloth. Let the liquid in the bowl stand and settle, then pour off the
water. Add some boiling water, stirring
briskly gd briskly as in making the ordinary starch,
Starch, you notice, absorbs a great deal Of what constituents have we found the potato composed " Later we shall learn
some others. Pare a potato thinly, and drop it imhittle salt has been added; boil briskly,
and as soon as it is so soft that it can shake over the fire to let the remaining Water evaporate. It is because the
starch in a potato takes up so much Place a piece of cheeserlouth weor small bowl of water; measure two table
spoonfuls of white flour into it; gather
the edge one hand, and wash the flour with the
other. Wash the flour in many waters, while, boil some of the milky-looking Water to prove that it comtains startch,
Notice how elastic and gluelike is the What proportion does this gluten bear to he two tablespoons of flour? This
$\qquad$ went in that quantity of floure
But in But in analyzing food, the standard is
he normal amount of

THE FARMER'S ADVOCATE
breathing fresh air, and enjoying fruedom Dear Dame Durden, - As I have enjoyed
the many letter in the Home Magazine
for over four years, and never felt that or over four years, and never felt that I had anything to write about until the
subject of farm and city life came up for subject of farm and city ine came up ior discussion, I think that 1 must give my next building, or or looking bricst in on the
opinion, along with the rest of my coun- dusty pavement. Six yons en try friends. Perhaps they will have
some idea of how much 1 have been some idea of how much 1 have been
belped by the many really good letters
written by them on how to do housework write by them on $\begin{aligned} & \text { tell them that I I was } \\ & \text { on a farm, when }\end{aligned}$ born and brought up in one of the largest
cities in the United States, and had not the slightest knowledge of farm ine, un-
til arter ten years of city life my hus-
band began to long for the home of his band began to long for the home of his
childhood, and decided to return to the arm, where he hat Six years ago we came to one of the
most dilapidated-looking farms one could most dilapidated-looking farms one could
see in Canada. My husband had fre see in Canada. My husband had fre
quently sent money for improvements,
but none had ever been made, and everyquently sent money for improvements,
but none had ever been made, and every-
thing had gone to rack. 1 sat down and viexed the house in dismay, and such a
longing for my city home, with all hits longing for
conveniences nd pleasures that they cannot possibly
have in the city; and if we have a little
leisure, we can study the beauties of
nature to their fullest extent, instead of
siting and counting the brick in the
next building, or looking out on the
dusty pavement. Six years of farm life dusty pavement.
$\qquad$
$\qquad$ publish, as 1 would like to write again past six yoars, and tell why I think sc
$\qquad$
$\qquad$
$\qquad$ Wec. 22nd number of the " Farmer."
Advocate," I notice where Aunt Murjor. says she has had excellent bread from
recipe taken from a former number of the conveniences, came over me that I think
I should have died right there had it not
been for the encouraging words been for the encouraging words of my
husband. He pointed out the possibllities of making it an ideal home. This
could readily be seen, but as it was then the first of November, nothing could be done in the way of renovating the house
until spring. Luckily, the house was substantially
built of brick, and when that dreary winthe had passed, we moved everything into
the woodshed, took all the partitions out, and changed the plan of the house
entirely. Everything was made as con-
venient as possible, but still the longing entirely. Everything was made as con-
venient as possible, but still the longing
for my city home remained, for the barns for my city home remained, for the barns
and fences were just as dilapidated as cipe taken from a former number of the
Farmer's Advocate." Would some one kindly give the recipe referred to again please ?
We have been taking your magazine fo
nearly a year, and I enioy the in Incle nearly a year, and I enjoy the "Ingle
Nook Chats." very much. I like to learn something new about housekeeping and am pleased to hear of other house-
keepers' methods. Aunt Marjorie describes the "kitchen cabinet "splendidly; it is a very useful
article to have in a kitchen. We were burned out two years ago. When wo kitchen, and have but a small rantry
I thought a kitchen cabinet would b handy under the circumstancess, and s
$\qquad$ the house had been. That same fall the
barns were overhauled, and repaired in-
side and out, and cement hasements put I would like to add a gingersnap recipe
which 1 have used for years
Bring to side and out, and cement hasements put
under them. Some of the fences were tablespoonful soda : pour it while foam-
 our front yard ready for sowing lawn add 1 tablespoonful vinegar, and flou
grass soed in the spring. All this improved the appearance of out
home wonderfully, and the longing for home wonderfully, and the longing
my city home gradually began to away. All this time I had been trying
to learn the ways of doing housework on
a furm, for I found it very different from
$\qquad$
$\qquad$
$\qquad$ provements in the house that it lightens
the werk. I would just as readily marry a farmer as any other man, and I think
farmers' wives have just ns easy a time Carmers' wives have just ns easy a time
as those who marry hited men Perth Co. Ont.

$\qquad$ orange marmalade, which some of the range marmalade, which some of the
readers might like to try just now, when Seville oranges can be had. It is both better and cheaper than the bought mar
malade. ${ }^{\text {To every four oranges, tal }}$, nalade. To every four oranges, tak
our pints of cold water, four pounds o sugar and one lemon. Put the quantity of water required into a granite pan;
take the skin of the fruit, and cut into
very thin strips and with the fingers vake thin strips, and with the fingers
vhred the pulp into very small pieces; put the the pulp into arry small pieces, old,
train and and scald when cold,
tiquid into water along with strain the liquid into water along with
fruit, and let stand over night; boill slowly for an hour, or until the rind looks
transparent: then add sugar. and boil anransparent; then add sugar, and boil an-
pther hour from the time it begins to

$\qquad$
$\qquad$ Contributor of the Ingle Nook Chata
Now, I wish to answer .. Martha's Now, 1 wish to answer Marthas
query regarding the best kind of a butter


DONT BE BLIND
to the chances that Canada 0 ? ${ }^{\text {? }}$ er to young men who KNOW SOn.E. THING WELL. You can fft yourself for higher pay by studying AT HOME
YOUR SPARE TTME
We teach over 100 subjeots including all branches of study. You can have full particulars by mhich subject you prefer and sending it to us with your name and address.

DO IT TO-DAY


The Breed That First Made Hillhurst Famous.
 were both bught at Fillluhret, ind
there are some equally good ones
Reds and Dark Roans now ready for perviciti Soteh-
topped and from good milins flam: tipect or pale at farmerr, pricoes.
as. a. cochrane
Hillhurst Station, ${ }^{\text {o }}$ Compton Co., P. Q.
L. WOULD LIKE EVERY WOMAM towrik
 Kanager SOUTHCOTT SUITT OO iondon, Cal.

## In LEAVENWORTH CASE

## By A. K. Greo

CHAPTER XXIV.-Continued Never have days seemed so long as the two which interposed between my return

from R - and the reccipt of the foliow| ing lette |
| :---: |
| Sir, | n R-1. July Brd, 1875. Party sisted of four themselves, uncle, and the

irl
named Hannah.
Uncle remained three named Hays and then left for a short tour through Massachusetts.
weeks, during which ladies were more or less with the gentleman named between us, but not to an extent suffi-
cient to excite gossip or occasion remark, cient to excite gossip or occasion remark,
when saidd gentlieman left $R$-abruptly, two days after uncle's return. Date July 19. A's to habits of ladies, more
or less social. They were always to be seen-at
brall-room.
sidered gra tay, moody, and toward the last of her her manner was always peculiar, and
that she was more or leess shunned by he
 tady exyer however, shouthed on for this opinion. No particular rea-
Uncle, ladies and son for this option. Uncle, ler New York, August
servant July 6th, 1875, in company with Mr. an Mrs. Vandervort, friends of the above. Lett July 19th, two weeks from day of
arrival. Little to be learned in regard arrival. Rille Rememberd as the handsome
to him. Renteman who was in the party with
gentlem gentleman who was in the
or seventeen miles from R , had for its Methodist minister in July of last year, a man who has since died, Samuel
Stebbins by name. Date of decease, Jan. h, of this year.
4. Name of mar
that time, is TYmothy Co
been absent, but returned to $F$ He he two
days ago. Can be seen if required.
"Ab, ah ! " 1 cried aloud at this poin
in my sudden surprise and satisfaction in my sudden surprise and satisfaction
". now we have something to work with. $\underset{\substack{\text { And aiting } \\ \text { reply }}}{ }$ down I penined the tollowing
 Mr. .S. on any day of July or August
last." Next morning came the following tele"T. O. on the road. Remembers
marriage. Will be with you by 2 p.m. marriage. Will be with you by 2 p.m,
At three o'clock of that same day, atood before Mr. Gryce.
make my report," said
make my report," said I.
The filcker of a smile passed The fitcker of a smile passed over his
face, and he gazed for the first time ut his bound-up finger-onds with' a softening aspect that must have done them good.
" "'m ready," said he. "Mr. Gryce," I began, " do you re-
member the conclusion we came to at our first interview in this house ""
"I remember the one you came to."
"Well, well," returned I, a little peevishly, "" the one I came to, then. It
was this : that if we could find to whom Eleanore Leavenworth felt she owed he
hest duty and love, we should discove who it was that murdered her uncle?" tained this?

His eyes stole a little nearer my face go on." exclaimed he, "What I undertook this business clearing Eleanore Leavenworth from
suspicion," resumed 1, "it was with the premonition that this person would
prove to be her lover, but 1 had no idea he would prove to be her husband."
Mr. Gryce's gaze flashed like lightning to the celling. "What?" sald he with a frown.
. The lover of Eleanore Leavenworth it
likewise her husband,". I repeated. . Mr . likewise her husband," I repeated. "Mr
Clavering holds no lesser connexion to Clavering ho
her than that."
"How have you found that out?" de
manded Mr. Gryce in a harsh tone tha argued disappointment or displeasure. came acqunin







 now emplosed in R -as were in tur
hotel at the time:





 8. July 31. Mr. Clavering akestificate.
er for Liverpool. Proved by news er for Liverpool. Proved by newspapers
of that date.
is September. Eleanore Leavenworth in September. Eleanore Leavenworth
hences's house in New York, con-
ducting herself as usual, but pale ducting hersele as usual, but pale of face
and preocupied in manner.
servants then in servants then in her service. Mr. Claver
ing in London ; watches the United State. mails with eagerness, but receives no let.
ters. Fits up room elcgantly as for a lady. $\begin{gathered}\text { Proved } \\ \text { from London. }\end{gathered}$ by secret communication
"November.
 room prepared for lady closed. Proved
as above. January 17 th,
having returned to Amer. Clavering. room at Hoffman House, New York
"March 1, or 2 . Mr. Leavenworth receives a letter signed by Henry Claver-
ing, in which he complains of having been
ill-used by one of that ill-used by one of that gentleman's niceess
A manifest shade falls over the family . March 4. Mr. Clavering under a Leavenworth's house for Miss Eleanore
Leavenworth. " March fourth? ". exclaimed Mr. Gryce the murder." Mr. Le Roy Roblins, said
"O Yes ; the Mave called that evening wis
$\qquad$
$\qquad$
$\qquad$ house Upon his departure she declares
her unwillingness ever to mention thi Mr. Gryce slowly waved the paper aside. .. And from these facts youd draw
the inference that Eleanore Leavenworth
is the wife of Mr

$\qquad$
$\qquad$
$\qquad$ endeavor to prove justifiatle."
A peculiar gleam shot over Mr. Gryce's somewhat ahstracted face. "Then you
$\qquad$ his standing in the relation of ut,
acknowledged husband to the suspectect
party was something." "No positive cvidence ns to his heling the assassin


G0ssip.
by, Northamptom. England Sons, Hol- paper high-class Shire stallions
mares for sale. This firm has
 essful breeders of this grand class well to correspond with them
 Among the leading young stockmen ham Co., Ont., is Jas. Dickson, orset sheep. His Tamworths a Imdale Ned 2503, a Nichol-bred hiy am Springt, 250k Nellie 2391, bred byar,
Hallman. Hallman. Some of his sows are by
olwills Choice 1343 , a noted prizewin Mr. Dickson has always found
teady sale for his pigs at fair pricas and owing to the keen demand for Dorset
sheep, he has found it almost impossible o hold stock necessary to increase his
lock to a reasonable size. His flock we ounded on drafts from the flocks of Col.
John A. McGillivray and John Hunter. In addition to breeding pure breds, Mr. orsets for the butcher, with which he
as been very successful. Growing the latest varieties of seed grain is also
made a specialty by Mr. Dickson, and he has always been able to sell the seed
through the advertising columns of the
$\qquad$
$\qquad$
$\qquad$
$\qquad$ tempt of their lives to push the Jerseys the front at the forthcoming Lewis \& his summer. They have already brought
Portland, in addition to o Portland, in addition to Loretta D.
which is owned there), the following Jersey cows from the St. Louis demonstration: Brown Lassie Duchess 2nd, Curybia, Ovozan 23rd of the Hood Farm
and Zalo of Menlo,
Dorinda Darling Srize May, thereby giving them the first. eecond, third, fourth and fifth, ninth and
(wenty-fifth leading Jersey cows at St. These cows were brish by express, and placed on the Crystal Sping Farm. owned by the Ladd Estate,
ind it is said further that the United
Site States is to be searched by experts for
any other fine specimens, and if found will be taken to Portland and there Waced in the hands of experts to be pre
vared for the coming contest.

## TRADE TOPIC.

feeding a stock toric at all tock cannot be on pasture,
 Whe appetite bitter well known, as also laxatives for stock on dry feed, and
0 salts of iron which act as a tonie These, as well as others in proper com-
tination, are all contained in Dr. Hess Stock Food, endorsed by leading medical Colloges and numberless farm and stock
huers. Not the least interesting inforemic is the eost. It only takes a
shilling's worth per day of Dr. Hess tock Food to feed fifteen steers, feeding
wice a day as directed ins at a feced. Compared to the extra gain is many times. Hess Stock Food, the roduction, and also growth and milk forms of disease by keeping stock healthy. Maran manufacturers give a written $t$ does not increase thesh and milkey proIfod many times over. you cannot Suy this Stock Food in pounds at $\$ 7$, or a $25-1 \mathrm{~b}$. pail at $\$ 2$ land, Ohio to Drs. Hess \& Clark, d to give further A., who will be
april 13, 1905
QUESTIONS AND ANSWERS. Miscellaneous. Horge insurance.
Is there a company in Canada that en-
sures entire horses or other valuable
purr-lred animals against death by acci-pure-bred animals
dent or disease? Ans--See answer to similar question on page 480, "Farmer's Advocate" for an inoperative will. Farmer has two children, son and
daughter; son dies without wife or heir Can son leave a will, legally, which will sccure what would have been his share in his father's property, to Whom or what
FARMER Ont.
Ans. - No.


THE FARMER'S ADVOCATE.
cossup.

 SHIRE HORSE
 Cor showing purpooe eilling England are in.
Canadian buyore villing

 Siation-Althorp Mart, L, \& N. W. By.

THE ANCHOR WIRE FENCE Is the strongest and best farm fence on the market. It is made
throughout of No. 9 galvanized steel wire, either plain or coiled, throughout of No. 9 galvanized steel wire, either plain or coiled, but heavier uprights may be used if desired. Any inteligent person can construct the fence by follo
in our free catalogue. Agents wanted.
GATES AND FENCE WIRE FOR BALE.

ESPLEN, FRAME \& COMPANY,
STRATPORD, ONT.
$\qquad$


EAR LABELS.-With the pasture sea-
oon approaching, farmers will be inson approaching, farmers will be in-
terested in ear labels as a means of designating animals running on commone. roadsides, or wild pastures. These labeld
are cheap, and are useful in keeplng as
record of the breedling on


$\qquad$ We are informed that the claik of
Messrs. Hodgkinson \& Tisdale, Beaverton,
Ont. for $\$ 2.000$ insurance on the cham-

| b |
| :---: |
| s |
| s |

Mr. Jas. A. Cochrane, Hillhurst, Quebec, in a special advertisement olfors for
ale young Shorthorn bulle and females. And writes that some promising young
calves are coming, by the young bull, calves are coming, by the young bull,
Broad Scotch, son of Imp. Scottish Hero (imp.), and Butterfy 49th (imp.). Ent quiries ars Irequent for shorthorns of
good milking strains from different points

WHY HORSESHOES ARE LUCK Here is an explanation of the oild
horseshoe superstition: " St. Dunatan was a skilled farrier. One day whitle at work in his forge, the devil entered in disguise and requested Dunstan to ehoe
his 'single hoof? The anint, although his single hool. The saint, although
he recognized his malign customer, acceded, but caused him so much pain dur-
ing the operation that satan beged him ing the operation that Satan begged him
to desist. This St. Dunstan did, but to desist. This st. Dunstan did, but
only after he had made the evil wue promise that neither he nor any of the
lesser evil spirite, his nermanta would lesser evil spirits, his sorvants, would
ever molest the inmates of a house white ver molest the inmates of a house
he horseshoe was displayed."-Ex.

Messrs. Hodgkinson \& Tisdale, the en terprising stockmen of Beaverton, Ont..
secured the imported Clydesdale stallion. Imp. Royal Baron, from Graham Bros. of Claremont, soon after their great mig-
fortune in losing Imp. Baron Sterling, the ortune in losing Imp. Baron Sterling, the
champion of America. They have been oxceedingly fortunate in getting suck choice horse to take Baron sterling's
place. Royal Baron may be considered place. Royal Baron may be considered to Baron Sterling in the winning. This frm has a bunch of choice mares on
hand in the pink of condition that should hand in the pink of condition that should
throw some excellient stock when bred to throw some excelient stock when bred to
Royal Baron, and we trust he will be the means of recouping his owners a goodly
portion of the loss they sustained in the death of his predecessor

Mr. Robert Clarke, Ottawa, breeder of bacon-type Chester White hogs, whome ad-
vertisement runs in this paper, and and vertisement runs in this paper, and a fine
photo-engraving of 100 of whose hogs grown on grass with one feed of grain
per day, appeared in the .. Farmer.s vocate" of April 14th, 1904, writes "The long-bacon Chester White hog is
growing so popular throughout Canada that last year I was 50 orders short in
flling the demands for spring pigs at 8 flling the demands for spring pigs at 8
to 10 weeks old, and had to carry many orders over and fill out of my fall littors,
Would say to farmers, order early, if $y_{\text {did }}$ want this class of pig-the pig that pps
a good profit on his keep-as I always ship
reas :"
reer order entered and
For full information.

## Wory Goss <br> To the Stomach

Tears Down the Little Telegraph Line that Operate and Control the Digestive Processes.

How to Repair These Telegraph Lines.

I Will Gladly Give Any Btomach Sarere dy Free to of My Rem

I a iki no deporit-no re ference-no security.
There te nothing to tiek-nothing to pay, either nowe or noterng to ny som-nothing to to pay, ererer whe doe.
not know my remedy may have a full dollar
not not tkow my remedy may have a full dollar
worth free, in hemerely writer nd akks.
I willingiy make this

 that waar outrate the stomach. The nerve日
treak down and CAME
stomach trouble. For stomach trouble is really only ach trouble. For that thamach trouble is is reaily
trouble ingide. That is why ordinary nerve remedie foil. That is why my remedy succeer
is why I can aflorito make this offer.
Yet do not misundent "Yet do tomach nerver, ater I mean rhe nutomati con trol. I have not the enpace here to explain
to you how the nerve control the tomach or
how they may be vitalized and restored Whe how thry may be vitalized and restored whe
you writer will send you bot which will
make these points clear. But this much is cer

 treatnent,will do that No other remedy thal
Dr. Shopos Restorative even claims to reach
these nerves What ailes the etomach nerves? Worry. prob
Whly. Mental anguich destroys their tiny flbers and tears down the telelerraph lines, with
out which the stomach has no more eelf-contiol than a gionge liverwark will do it Irregu ar habito will do it. $\begin{aligned} & \text { Over cating will do it } \\ & \text { Dissipation will do it. } \\ & \text { But the effect is the }\end{aligned}$ (t) same-stomach failure.
No matter how these nerves became impair
d-I know towny edol mater a way to rebuild their strensth-to
restore their vilior. It is a remedy which took
then
 which conmunities-in more than a mifty tholili.
 will accept ar glady an he would accept a do

 open and frank and fair. It it it the rumperame tevid
of my limitless belief All that I ask you to id of my limitless belief A

 Mild cases are offen cured by a single bottle. F

## Dr. Shoop's

 Restorative CORN THAT WILL CROW DUKE \& BRUNFR. - Ruthven Brood Mare Special with weakly foals in former years, anit must be used one month beforo foiling:
time Price, $\$ 1.50$ per package. Ad.
direse: J. WILHELM,

CLYDESDALE and SHORTHORNS One first-class registered 2 -y
 Royal Sovereigned and a few heifera bred
Scotlands Fame. Ata bargain if taken soon For particulars writ
, JOHN FORGIE

THE FARMER'S ADVOCATE.

WOODBURN CORN
 Perth Co., Ont.
Ans.-We are not familiar with this
variety. Ans.-We are not familiar with
variety. Inquire of the sed firms ad-
vertising in the "F Farmer's Advocate There is seldom anything yained, though, and often much lost by running after un-
common varijeties.
THICEKNESS OF SEEDING WRINKLFD PEAS Is it better to sow more per acro of wrinkled kinds of peas than of the
smoother ? Some say the wrinkled smother ? Some say the wrinkled
kinds.
SUBSCRIBFR. Ans--It might be advisable. The wrinkled peas are the richer, but they
are more likely to decay in cold. round, and are, therefore, not so wel
adapted to early spring planting of the very early sorts of garden pea cement tank and driveway. tank under basement of barn, $8 \geqslant$ feet
high, $3 \star$ feet wide. I would like some
of your readers, who have had exprience with cement tanks, to tell me mha
length it should be to water all ston n an ordinary hundred-acre farm; als orners.
2. I am going to cover a root-house
h. Which will be under the driveway, with
two ply of two-inch cedar plank with a
cont of mortar hetween, then cover with mixture of gravel and coal tar. Could ny of your readers suggest a better
way Roothouse $16 \times 36$ feet, and
Wilding over M.
Ans.-To give an estimate, the sourc
if water supply should of water supply should be know, the former, an inside dimension of 8
$3 \forall \times 10$ feet should be suffcient. hickness of walls, we would suggest
inches at bottom and 4 at top belng plasteref inside with cement. A ne wall, and nt the corners, pieces of
crap iron, such as old wagno tires, ,ent
on a right angle. would help, to hold the
$\qquad$ "scriled on phge 140 of the "Farmer
divocate." January 2 名th, in answer t

Metal Shingle \& Siding Co., Ltd., Dept. 8, PRESTON, ONT


TO SECURE THE BEST RESULTS
Place an Ad, in the Farmer's Advocate

# Last Mountain Valley 

Steamboat Service On the Lake.
S. S. Queen City and S. S. Silken Dale will make regular
trips with freight and passengers.

Railway in Operation This Summer.

WRITE FOR FREE MAPS, BOOKS, ETC

The Finest Wheat Land
in North-east Assiniboia.

Average crop for 5 years
25 bushels per acre

## Wm. Paarson \& Co., <br> WINNIPEG.





Berme fox lirwohime From the very bert of stook and carefol breed.
iog. Burrea Pe Rooks. White, Bilver-laced

 good percentage of how, bird, will prod ot ${ }^{\circ}$ MY BARREO ROCKS and BUPF ORPINGTONS
 frill packed.

McDOUGALL'S SHEEP DIP

 Sold by drugglith and dealers, or charges pre
paid on 10 aly or 10 lbe THE WORTHINGTON DRUG CO., Guelph, Ont.




 MAILED FREE MIM $\mathbf{P}_{\text {REAGI }}^{\text {osta }}$ WRITE US AND ANSWER THE FOLLOWING QUESTIONS-

DAN PATCH RESTORED TO HEALTH IN SIX WEEKS.


CR YOUR MONEY BACK IF THEY FAIL TO CURE PA

 arnational Worm Powder" "International Foot Remedy" "International Gall Cure"
Proparod and Sold on a "Spot Cash Ouarantoo" by IWTERNATIOWAL STOCK FOOD CO., Toronto, Can.


In answering any advertisement on this page. kindly mention the FARMER'S ADVOCATR

QUESTIONS AND ANSWERS. Miscellaneous.
rennet coloring matter, and salt 1. How much extract of rennet will it require to make twenty hundred pounds of milk into cheese ?
2. How much coloring and how much
malt will be required for that amount of salt will be required for that amount of
milk used, in the proportions used by milk used, in the proportions used by
SUBSCRIB BR:
factories? factories. Six to eight ounces. Ans, - 1. Six to eight onnces.
2. Two to three ounces coloring, and
three to five pounds salt; three founds three to five pounds salt; three founds
if you want a fast-curing cheose. to prepare cocoa shell for calves
Would you please let us know how to Would you please let us know how to
prepare cocoa shell for calves, and also prepare cocoa shell for calves, and also
state what quantity to use at a time? Ans.-A correspondent of the ". Farm-
er's Advocate," of Feb. 16th, 1903, thus er's Advocate, of Feb.
doscribed his method of preparing cocoa
shells: Put about a quarter of a pound shells: Put about a quarter of a pound
of the sholls into a kettle holding about of the shons in ater. Bring to a boft!,
two gallons of water
and silimer for two hours or more on and simmer for two hours or more on
the back of the stove. Pour of enougt the back of the stove. Pour off enough
tor one meal, sweeten with sugar until
it is about the same as new mill, then it is about the same as new milk, then
add a pint of skim milk, or less, if that
and a little amount cannot be spared. more shells into the kettle, and boll and
simmer as before for the next meal. Cocoa shells are very rich in albuminoids and fat, and a decoction makes an excel-
lent substitute for milk. The correlent substitute for milk.
spondent stated that spondent stated that 20 lbs . of cocoanut
shells, with the addition of 5 bs. linseed
seal shenl, fed a fine calf until weaniug time, TO KNOW WHETHER EGGS ARE PURE 1. How can I know when I send to get
owl or eggs from a distance whether
oney are the product of purebed fowl they are the product of pure-bred fowl or 2. Is there any law governing the num-
ber of pounds a miller should take as toll when gristing wheat, and if so, how nuch? When our wheat does not
3. When
and come up to the standard and the
consequently will not produce the
proper amount of flour that a bushel of to make up the weight in bran and shorts for the lack in the flour ? SUBSCRIBER. Ans.-1. Your only assurance is the re-
liability of the seller. When the chicks are grown, you can tell pretty nearly by their conformity to breed standard in
color, markings, comb, size, shape, etc. color, markings, comb, size, shape, etc.
2. No : we are informed that there used 3. No. CEMENT FLOOR 1. How much cement will it take
foor a stable, $46 \times 56$ feet ? Mor a stable, $46 \times 56$ feet?
2. What kind of cement would be the
best ? best ?
3. What price per barrel, f. o. b. cars?
4. Will coarse sand with some gravel 4. Will coarse sand wit
do to make a floor?
Algoma, Ont. Agoma, Ont.
Ans. - 1. It depends upon the thicknese
necessary, it es necessary, i. e.. upon the kind of stock
for which the stable is floored. A barrel
of good Portland cement will lay about
140 square feet of alles way or pignen
floor floor tquare inct of allesway or pigpen
feet thick; or 80 square feet of horse or cowstable floor four
inches thick. Of rock cement, you would
require at least one-third more. 2. All the cements advertised in the
.. Farmer's Advocate" are first-class, and Will, we believe, give about equal satis
faction. We have used Portland and
rock cement, and if building again, would be governed in our selection largely by
local convenience. and quotations.
4. Yes use one part sand with five
of gravel, with one part cement for the
hiontom three inches, and one part sand with two of inches, and one part sand
wite even halif of each,
for the finishing coat. For the finishing
Hore two of sharp gravel, or one of Portland
cement to three of gravel. The finer the



TRUMANS' CHAMPION STUD
READ OUR UNBEATEN RECORD AT ST. LOUIS WORLD'S FAIR:


Grand Championship.
Two Championships. Three R Arand Championghlps.

Three Fourth Premium.

Our fourth carload of Shire, Peroheron and Haokney stallions just arrived at our
London, ont., tabloes at the Peit Hotel, nd w with those alreasy on hand make the
best collotion


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England.

## 125 Percheron, Shire and Hackney . . Stallions and Cares .

At the World's Fair at St. Louis I won more Premier Cham-
pionship award than any other oxibitor of live stok; I won



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LEW W. COCHRAN, 607 West Main St., Crawfordsville, Ind. $\$ 7,000$ in prizes. ELEVENTH OANADIAN $\$ 7,000$ in prizes. HORSE SHOW


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THE MCLACHLAN GASOLINE ENGINE CO., LIMITED, W. C. WILCOX \& CO., Our Western Agenis, Box 818, Winnipeg, Man,

ADVERTISE IN THE ADVOCATE

## SHEEP SCAB.

What ane the symptoms of scab in sheep, and how may we know it?
2. How lorg after exposure will it manifest itself manitest itself ?
3. Does the parasite work on the out side of the skin, in the skin, or under the skin?
4. Will all sheep in flock become affected?
5. Will it cause death; if so, in what length of time
6. Can a sheep be affected with scab
andi not show it ?
7. Will sin 7. Will a ram with apparently healthy
skin in good show condition inoculate skin in good show condition inoculate
ewes that he served last November, he ewes that he served shown signs of
himself never having sho
digense digase, and is in apparen goon heartu and condition to-day ?
8. Does scab affect sheep in winter or
summer ; if both, which season is the W. Give information as to treatment? Ans.-1. Itchiness and rubbing, skin be-
coming raw, reddish and scabby, and coming raw, reddish and scabby 2. That depends on the directness of
contact and the virulence of the parasites 3. It works on the surface of the skin inward.
4. They are liable to do 5. It may do so in course of time 6. They might not show it immediato$1 y$ after contact, but as the pest developed, they would soon show it by rub-
bind themselves. and otherwise as in answer 1.
7. It is not likely, though a ram may have been in contact and have had the
disease some months and recovered through treatment.
8. This pest will work its ravages in any season.
9. Any of the sheep dips and insecticidal preparations recommended for the purpose and advertised in the "Farmer's
Advocate" will be found effective according to directions. The sheep should first be shorn. The official dip. authorized by the Dominion Chief Veteri-
nary offcer. and the use of which is nary officer, and the use of which is
obligatory to secure release in case of oblgatory
quarantine, conslets of 24 lbs. flowers of
sulpur, sulphur, 10 lbs. unslacked lime, and 100
gallons water. First., boil the sulphur gallons water. First, boil the sulphur
and lime in an iron pot for two hours in a portion of water; then, syphon off the liquid, and mix with the remainder of the water. When the mixture is still
warm, immerse the sheop completely for
two minutes, and repeat the operation in two minutes, and repeat the operation in

HENS NOT LAYING-CANADIAN COW
IDENTITY OF AUTHORS.

1. I have been feeding my hens the past winter a mirture ors mash once a day of root and barley chop. They have free access to lime and old plaster and plenty
of drink. of drink. They will each one lay three
or tour eggs, and then mope around nest as il they wanted to lay but couldn't.
The few eggs I do get are very thin shelled. They are looking fine with red combs, but I only get one or two eggs
a day from thirty-nine hens.
Give cause and remedy.
2. Describe the Canadian cow spolken of
in report of Central Experimental Farm. in report of Central Experimental Farm.
3. Are Prof. Drummond, author of
Adresses by Drummond," etc. and Dr
Addren AAdresses by Drummond,", etc., and Dr. two different persons? G. T. H. Anset- 1 les, and prabably grit, unless
there is an unusual amount in the lime supplied. When the hens got out, they
will probably find these essentials, and probably begin to lay.
4. The cow referred to, we understand, is a pure-bred French-Canadian, for which
there is a breed association and herdhook, of which Dr. J. A. Couture, V. S.,
Quebec City, is Secretary, and for which he will probably furnish, on application, a
scale of points, which is too lengthy for
publication in the limited space at our disposal. The Canadian cow somewhat resembles a dark-colored Jersey, being
about the same stze. They are hardy,
good feeders, and heavy milkers, 17 good feeders, and heavy milkers, 17
points out of 100 being credited to udder
and tents P. Drummond and Dr. Drummond
dirferent persons. Prof. Drum-
ved in Scotland. Dr mond lived in Scotland; Dr. Drummond.
author of ". The Habitant," lives in
Montreal.
THE FARMER'S ADVOCATE

QUESTIONS AND ANSWERS Miscellaneous.
arabian boy.
Essex Arabian Boy, owned and travellert 2. Are Godolphin, Victoria, Rob Roy
Lady Messenger, Arabian Dick Lady Messenger, Arablan Dick, Queen Or If drabian Boy is unknown to the edito possibly some reader living in or near
Waustead, Lambton Co., Ont., may know Waustead, Lambton Co., Ont., may kno
something of his pedigree. Will the ed something of his pedigree. Will the of
itor kindly publish whatever information itor kindly pub
he may obtain
We shall be pleased to hear from an
one who can furnish the infornation quired.
RABBIT sNARE-cHRONIC covor 1. How do you make a rabbit snare
2. Five-year-old mare not doing well
hair rough, and has a cough, but doc $\begin{array}{ll}\text { hair rough, and has a cough, but docs } \\ \text { not run at the nose. } & \text { W. A. M. }\end{array}$ Ans. -1 . Will some of our sporting
readers kindly favor us with a descripreaders
tion of a rabbit snare. 2. One of those chronic coughs, diffi heaves. Give her, night and morning, 1t drs. powdered opium, 1 dr. camphor, 30 grs. digitahis, and $1 \frac{1}{2}$ drs. solid extract
of belladonna, moistened with a little treacle, and made into a ball. Continue Yor a week, then cease for a week, then
repent every second woek as long as necessary. Give first-class food; give
hay in mall quantities, and moisten "ith hame water everything she eats. To the
lime water add 2 ozs. raw linseod oil. preparation for mangels. 1. Heary clay land was manured and
plowed for mangels last fall. what preparation should the land have this spring ?
2. What variety would likely do the Ans. -1 . Thorough working. Harrow if possible as soon as the soil is dry
nough to work without puddling after nough to work without puddling: after
hat disk and Acme harrows and spring ingkd-tooth cultivators. , ,ot the noist by repeated cultivation. When
ready to sow ready to sow (and this should be early in May), put up in low drills; or it you the mangels may bo drilled in on the flat lubes, the soil being repentedly stirred with the weeder. We would not like to
advise this, however, on a very sliff clay advise this, however, on a very stiff clay
2. Yellow Leviathan is the vaifety mangels most highly recoumendsd by
Prof. Zavitz, of tho O. A. C., it having been most popular in the co-operative ex wheat fertilizer-smut-rich milk Is the
 seed? What is the best kind of fe:tilizer for growing wheat? Kindly give the
percentages of the potash and acids that RIGHT EVER SINCE
T. H. Belyea, P. M., Proves That Dodd's Kidney Pills Cure Permanently.

Tears Slnce He Used Them Now and Ae Has Had Good Health Ever Since-
Story of Well-known New Brunswlek OWER WINDSOR, Carleton Co.. N.
 Cney Pills." The speaker was M. T. T.
Belyea, postmaster here, and one of most highly respected men in this of the countryspected Asked to in thive his rience with the great Canadian Kid-
Remedy, Mr. Belyea continued:
had been Aroubled with 1 had been troubted with my kidneys
a number of years. I tried several
Is of plasters and $\begin{array}{lllll}\text { s of } & \text { of lasters } & \text { and } & \text { tried } & \text { several } \\ \text { other } \\ \text { kinds }\end{array}$

TELL OF TORPID, SLUGGISH LIVER working order; also the names and a
ACTION AND INDICATE THE . drosses of Canadian manufacturars

| $\begin{aligned} & \text { DR. } \\ & \text { KIDNEY } \end{aligned}$ |
| :---: |
|  |  |



Dr. Page's
English Spavin Cure

(qull 1




PERCHERONS at BARGAIN PRICES



 1 veryil iot oon hand iod meot woul $A$

Clydesdales

$\qquad$
GEO. STEWART, Howick, P.Q
IMPORTED
CLYDESDALE STALLIONS - hand Fillies reasonabbe prices. Come and DAM DAWSON Cannington, On IMPORTED
Clydesdale Stallions

## Clydestale Stallion

MPORTED CLYDESDALES



20-FEIROIEコROIE-20 Have just arri ved with our new importation, Jan. 31 th, 1903 , direct from France, of 20
highola 20 Percherons and prize winners in Franoe. from the ebest breders in France. They







Clydestale Stallions
Our third consignment since Toront
Fair has just arrived, per S. S. Athe nia, from Glasgow, which include reveral of the best colts ever landed in
America. Prices right. See this lot. on merica. Prices right. See this lot. om

JAMUEE DALGEETY, LOMCIOM, Ont.


SIMOOE LODQE STOCK FARM CLYDESDALES
Any persons wanting to purchase Clydesdale fillies
and stallions for breding should call om abo berore buying else wheret
winners in our lot.
HODGKINSON \& TISDALE BEAVERTON, ONT
ng-distan in ont.
premature activity of mamye About ten days ago, I noticed milk
escaping from an aged mare, due to foal in June. The gland is quite full. R.
Ans-Premature activity of the manmex
occasionally occurs without appreciable
cause. tt is not infrequently seen when
the fotus dies
the fotus dies in the womb, and is oc-
casionally seen where this accident does casionally seen where this accident does
not occur. In cases where it continues
nor a or a long time, the foal is usually weak
when born, and in other cases it is quite strong. As stated, we cannot, in all
cases, account for the phenomena, and all
anat that can be done is to feed on small
quantities of dry food; give regular exer-
cise, and give cise, and give 1 dram iodide of potash,
night and morning for a week in feed. bog spavin and thoroughpin and (Tant mare.

1. Ten-months-old colt has puffs on
both sides and in front a little lame. 2. Seven-year-old mare goes lame on
une fore foot on hard roads. or when sho
s. steps on something hard. J. N.
Ans. -1 . This is hog spavin and thoroughin. Get the following blister: $1 \ddagger$ arams each biniodide of mercury and
cantharides, mixed with two ozs. vase-
line. Tie the colt so line. Tie the colt so that he cannot
bite the parts. Clip the hair offi, rub
the blister well in. In 24 hourg rub well ngain with the blister, and in 244 hours
longer wash off, and apply sweet oill. longer wash ofr, and apply sweet oil.
Let his head loose now, and oil every
day, until the scale comes off. Repeat the blistering once every month for 4 or
5 times, even though as, unless this be done they will probab,
ably reappear. Kep him in the stable
for a week each time after blistering. 2. This may be due to ringloone, and if
so, will need to be fircd and bistered by a veterinarian. I think it probably due
to navicular disease, and if so, a cure cannot be effected, but by blistering the ly the same as No. 1, and giving her a
long rest the symptoms will improve. I you cannot give rest, put on a bar shoe
and poultice the foot every night. LYMPRANGITIS, ETC.
2. Mare had lymphangitis in January
How can I prevent a future attack ? 2. Will grease heel turn to grease leg of 1ymphangitis?
3. Sow had a litter of pigs. We have
bred het thrre times incus not conceive.
Ans-1. By giving her exercise every day, und feeding lightly on bran instead
of oats when not doing much, she is no of oats when not doing much, she is not
likely to suffer again, as the disease is and good food. seen. it is hery is hard to treat, and is Wable to extend and involve the leg, but
will not turn into lymphangitis. It is probable you mean cracked heels or scratches. If so, and it is of bong
standing, dress once daily for three applications with tutter of antimony, applied
with a feather. wo feather;
days and
and
nights warm linseed meal poultice. Apply a
ircsh poultice every 5 get the following lotion, and apply three Uimes daily, viz., 1 oz. each sulphate of zinc and acetate of lead, 2 drams car-
bolic acid, and 1 pint water. as
4. I cannot suggest anything, as the
sow is too small to operate on. I would advise you to feed her for the butcher.
She may She n
grass.

HORSE OWNERS! USE
 You Can't Cut Out Antoo fixiz ABSORBINE


 W.F. Young, Al.D.V.F., 73 Monmouth St, Springfied, Mase.
"THE REPOSITORY"
Burns \& Sheppard, Proprietors,


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Clydes Hackneys

 How. Mall or wita: mILBROOK, ONTT. FONTHILL STOCK FARM


MORRIS \& WELLIMBTOH,
Fоитиll. - owtanio
Clydesdale Stallions and Fillies.
Imporon and analian brod For moli Two

 ontriow rarma. win GLAYFIELD STOCK FARIW Ciydestales, Shorthornis and Cotssiolis.
 Ionk or ram and owes at pricoen acoording to
$\qquad$
 onentallon thing 2yerra, For futher partic: ulars, applyte.
OVOCATE

QUESTIONS AND ANSWERS. Miscellaneous.

POLAND WHITE SERD OATS WANTED Where could I get the Poland White 1. Where could I get the Poland White
oat fit for seed ?
2. What should I do to relieve soreness in mare's feet, from founder?
SUBSCRIBER. Ans.-1. Try our advertisurs. Those
having this variety for sale should write us for advertising ratos.
2. In treating a case 2. In treating a case of founder, after the acute inflammation has coased, apply
cold to the feet, or stand in cold water.
Alter a few days he should be shod with After a few days he should be shod with bar shoes, and given gentle exercise. If
tenderness threatens to remain, blister gently around the coronet. Aiter the beneficial. Keep him as much as pos
sowing rape in grain Is it a good idea to sow rape with
grain? How many pounds per acre? grain, or later? Is sown with the grain would its rapid growth choke the grain
H. F. Ans.-Some farmers who have pra ticed sowing rape with grain report
favorably. It is usually sown broad cast, at the rate of about 5 flus. to the is sown, and without covering, thou some use a weeder and some a roller to
cover it. There is danger in a wet season, when sown with the grain, that
may grow so largo as to hinder the dit may grow so largo as to hinder the dry
ing of the shoaves at harvest. Fiven quite small at harvest time the rape wil grow fast after the crop is removed
ospecially if the weather is showery, an will produce a lot of good pasture, and if rules for syndicating stallions, 1. What steps have to be taken whe
a syndicate or an ansociantion is forme
for the purpose of buying a stallion?
2. Would such be registered or incorporated?
3. Where can I get a copy of rules and Ans.-1. A company is formod, J. con Bisting of any desired number of stoch
holdors, generally 10 or 12 , Officers ar
electeded, viz., a president, secretary treasurer, and manager, and a board oury manager is to handle, care for and the charge of the horse, under the direction
of the board of directors or trustees who shahl have general charge of the
horse, with full power to direct management. The net earnings of the
horse are divided pro rata among the stochholders, at the regular annual meet
$\qquad$
companies advertising.
solling CROPS


THE FARMER'S ADVOCATE.


ABERDEEN-ANGUS



Aberdaen-Angus for sale

 If you want a good
haverdeen-Angus
wu $r$
 KIm Park, Quelph, © each; Yorkehire boars and lis, 9 months, \$5 at $8 \%$ each, our yearling stock boar, quiet and
a good getter \$15 GURON OENTRAL STOCK FAR

ABERDEEN-ANGUS

THREE-HORSE REINS WANTED

## Would you be kind enough to give t of three-horse reins for young


Ans.-Ideas of readers are invited
the best method of handling three
abreast.

## Please let us know the name of reliable firm in Toronto or Lond


$\left\lvert\, \begin{aligned} & \text { Grey Co.. Ont. } \\ & \text { Ans.--Reliable houses doing produc }\end{aligned}\right.$
Ans--Reliable houses doing produce
business would do well to advertise in
the " Farmer's Advocate."
Barn panting.
What is the cheapest and best kind of
barn painting.
What is the cheapest and best kind
paint a farmer can use on a barn th.

## Ans,-For dressed lumber, oil and lea paint is recommended; but, would bo ex pensive on rough lumber. Write th Canada Paint Co., Montreal, or the Spramotor

TRADE TOPICS.

## ENGLISH COOPER DIP--In choosing dip certain points should be borne in mind. Hend <br> mind. Hundreds of decoctions may be med termed insecticides, but few only effec <br> discoloring the wool or setting withou <br> mal back in general condition. The enormous sale and long reputation of the <br> $\left\lvert\, \begin{aligned} & \text { well-known English Cooper Dip it is } \\ & \text { claimed has been won on its freedom from }\end{aligned}\right.$ $\left\lvert\, \begin{aligned} & \text { claimed has been won on its freedom froì } \\ & \text { all harmful effects whlle being thoroughly } \\ & \text { alt }\end{aligned}\right.$ efficient in the destruction and preven- tion of disease and insects. <br>  <br> 

ernational Live-stock Exposi-
wish manner in which you kept
Wepartment disinfected
We firmly believe that Zenoleum. We firmly believe that $/$ Le
oleum will prevent hog cholera fre
spreading, and it is an excellent reme
for tice on hog

Gussir

## Messrs C J. Gilroy \& Son, Glen Buell, Ont., write (rom

factory sof flor this herd are quite satis- We recently
shipped to Kinkston Stations
Horning, of Kut
Horning, of Keplar, a stations to to w. W .
grandson of Carmen Sylvia.

## the dam of this bull was. sold at sire of phic auction when slx years old for $\$ 900$ in Wisconsin. Mr Hole

Wisconsin. Mr. Herning old aloso secured the $\$ 900$
grand young heifer, Lady Sherwood Abbe
kirk. In the same car went her hall

$$
\begin{aligned}
& \text { let at London this year. } \\
& \text { E. BUTT \& 8ONs, }- \text { Ointon, On }
\end{aligned}
$$

$$
\begin{aligned}
& \text { FOREST } 4 \text { bulls from } 8 \text { to } 12 \text { mont } \\
& \text { VIEW FARM } \\
& \text { old p prizewinners and from }
\end{aligned}
$$

THE SUNNYBIDE HEREFORDS

ioht choice bull 8 orvioe ge
iceable ageot this includ
two.year
two-year-olds, all of th
brocky heavy ty the al
priees hat will move 1 an
oan sell move pare
wind heifors.




SPECIAL OFFERING OF


##  W. S. Marr, heads herd. We have fo

 sile a dozen young bulls of the strongback, doen-bod bat shat short-leg kind
some from our best imp
 all of well-nown Soctch females
either in calf or with calf at foomilies
R. MITCHELL \& BONs

THREE IM PORTED
 Four ioported oows in calf, home-bred cows
hoifers and oung bulls, allo of straight Scotcl
families.



Three Scotch-topped Shorthorn Bulls FOR SALE. ${ }^{2}$ by Prince (loster $=40998=$ one
by Collynie Archer (imp.). The nameor such
oulle as Ryar Puhis as Royal Barmpton (imp.). Stanley (imp.),
Prince of the Realm (imp.), Earl of March
and Revenue Roas and Revenue $=21063=$ appear in the pedigroes.
Gooo individual
solicited. Visial , must be bold. Inspeotion
 Whim. Gralloter \& Eoin Hawthorne Herd of Deop-millking
 HIQH-Shorthorn Cattle AND OXFORD
 WILLOW BANK STOCK FARM Large a ad old-est ablished herd of RHORT
HorNs. Gond milking ualitioe. Splendid frering of either sex. Scotch and Scotch
 8tamfords, Minas, Nonpareils, Crimson Flow
ors Marr Foras and Laviniar. Our herd will
tand comprison ing: 45 head of both sexes, all agee for sale
Tr mas Bowes. Stpathalmn P. 0 . meaford Sta. cotch Sherthorns- Three voung bulls. One


HE SHORTHORNS For Sale - I still have anme young onwe with
Shorthorins it Cotswolds

TOHNSOCKTTT. Rockwood Stn \& P Forest HII Stock Farm Shorthorns ${ }^{-3 \text { rhoic }}$ buls

## d. <br> $\pm$ eltanuly 2sabu opshirgs    Norem

OUESTIONS AND ANSWERS. Miscellaneous.
tar roofing for barn.
Would tar roofing do for a barn roa
would dirt stick to it? INQUIRER.
Ans. - We do not think this would be
Aitable for any pitch roof, as the heal suitable for any pitch roof, as the heat
of the sun would melt the tar, which
would run more or less, besides wearing would run more or condition powders for in-Foal mares Is the prescription for fitting up
horse, given on page 2941 of the "Farm er's Advocate," March 2nd, injurious t,
J. S .
a mare in foal?

LOOKING FOR RHODE ISLAND REDS. Please let me know through ther ther
columns of your paper where I could g Rhode Island Red poultry eggs for hatch-
ing, and what they would cost per w. Ans.--Poultrymen who have the above and other breeds of pure bred hens ar
standing in their own light by not ad vertising
cate."
TREATMENT FOR THRUSH Please give information for best trea
ment for thrush
WEST SIMCOE SUBSCRIBER. WEST SIMCOE SUBSCRIBER.
Ans.-Cleanse the foot thoroughly, an Ans.-Cleange the foot thoroughly, and
pare away ragged or detached tissue
wash with warm soft water and castil pare away ragged or detached tissue
wash with warm soft water and castile
soap, and kepe in a clean stall; dry well,
and apply a lotion, consisting of zinc. gix drams, in a pint of water; or apply
dry calomel pressed in on a fledget of
tow. tow. How To USE AsHES. Would your advise spreading ashes on
fall wheat? If so, before or after the fall wheat? If so, before or after the
snow goes off; or would you advise spreading them on root ground? L.S.
Ans.-Ashes give best results on
legumes. Put them on the land where
俍 Ans.-As. Put them on the land wher
legunes. are seeding to clover or alfalfa.
you
apolied on the snow, some leaching migh Applied on the snow, some leaching migh
occur. Better apply after snow is off, in
otime to be washed into the soil by late
April rains. Twenty-five or thirty

LUCERNE FJR ORCHARD BLUE ANDALU-
SIANS
NEST BOX WANTED.

## Forty Agricultural Colleges Use And Endorse Zenoleum.

There is not a manufacturer in any line in this country today who would not give almost anything within reaacture /Z Enoleum we told the Experiment Station Directors that we would make a live-stock dip, ganmicide, in-
in secticide and general disinfectant that would be so genuinely good and reliable they would willingly use and en-
dorse it. They were anxious to secure something of this nature which was uniform, dependable, efficient and economical. We proved our good faith by making Zenoleum and the college authorities have proven our claims and shown their contidence bs constantly using and recommending ZENOLEUM. In Zenoleum Bulletin 108 we give
a list of these: gricultural college Experiment Stations and the endorsements of their Presidents, Directors, Proessors of Animal Husbandry, Farm and Live Stock Superintendents, etc. Send for a copy of this Bulletin so you

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We astyon

We ask you to take no chances. Read the Zenoleum guarantee. If Zenoleum is not all we say it is Most all druggists handle Zenoleum-if yours won't supply you, wee will. The prices of Zenoleum are: One
lon, $\$ 1.50$, express paid; two gallons, $\$ 3.00$, express paid; three gallons, $\$ 4.50$, express paid; and five gallons, gallon, $\$ 1.50$, express paid; two gallons, $\$ 3.00$ express paid; three galions, $\$ 4.50$, express
$\$ 6.25$, freight paid. Send to us for booklets, "Veterinary Adviser," "Uhicken Chat" and "Piggies' Troubles." Free.



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prioes.
Catalogue on application.
H. SMITH, Exeter, Huron Co., Ont H. SIMITH, Exeter, Huron Co., Long-distanoe

Shorthorns - We have for eale several younp

 MOUNTAIN VIEW SHORTHORNS

$\qquad$ ${ }_{\text {E.ppling }} \mathbf{P} .0$. Auction Sale of Green Grove Shorthorns I will sell on my farm, February 14th, a
choice seleotion of 25 bulls and heifers. Cata. logues will be ready by Jan. 25 th.
W. G. Millson, Gorling P. O., Markdale Sta. ${ }^{\circ}$ J. WATT \& SON -1 imp. BULL; also nambred cows and heifer, in calf or with oalvesat
foot from (imp.) Royal Archer and Royal
trar. foot from (imp.) Roysal Archer
Balom P. O., Elora station, G.T.R. \& C.P.R. SHORTHORNS \& CLYDESDALES

 SHORTHORIIS and DORSETS Write for what yon want. Also a
number of young Yorkshire nows
for sale. Hor sale.
D. Bartlett Sons, - Bmith ville, Ont. MAPLE LEAF 8TOCK FAP

 8COTOH 8HORTHO 16 monthe old, both
 THOS. MERCER, ${ }_{33 \text { Box }}$ Markdale, Ont. Breder and importr
CLIPDESDALE HORSES, SHORTHORN
CATTLE And YORESHIRE PIGS. SCOTOH-TOPPED BHORTHORNE



## SIR WM DAWson's books.

 What is the price, and where can I gethe books, ": Story of Earth and Man, books, "Story of Earth and Man,
The Historical Deluge," mentioner

Ans.-Try your nearest bookseller, W.
RURAL TELEPHONE BUPPLIEs.
Please state where we can get a tele

| ines. |  |
| :---: | :---: |
| Ans.-Sayer Electric | D. |
| A. Beaver | H. |

Ans.-Sayer Electric Co., Beaver Hal
Hill, Montreal, $\mathbf{P}$. Q., and the Strombery
Cols Carlson Telephone Manutacturing Co.,
Rochester, N. Y., both of whom have been CEMENT. SAND AND GRAVEL PROPORTIONs. What is the general rule, as to right
proportions of gravel, sand and cement,
to use to ensure a good wall ? Ans.-It depends on the character of the

than in case of good, coarse, sharp
gravel or where broken stonces are bedded
Invel or where broken stones are bedded
With a good rock cement, like
Queenston or Battle, about one part to
and
six of good gravel is sumcient; or one
part of good Portland cement to ten
part gravel
TWENTY-FOUR-SHARE BEEF RING

as usually been found quite large
ough. Some prefer only sixteen. Any-
ore
who has had experience with.
who has had experience with e
wenty-four share-ring would oblige us
scaly legs.
We have a small flock of Barred and
Buff Rocks which have been laying wel
his winter, but some of them have
disease in their feet and legs, which, we
hink must be the "scaly leg." They
eem to be quite painful. In the morring
ometimes they can hardly walk around
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
A. EDWARDMEYER Mrobar ore Sotch Shorthorns


 SHORTHORNS F \%ank

Six young bulle, 90 coww and heifors,
by that grand bull, elire of unbeaten, Frirr Queand and milter Quaen Io Ioenl, International, 1904.
K FAIRBAIRN
1804 - HILLMUABT FAMM - 1906 Br=
 Young Muils by Lor Sootilish Beanu, 18
 SHORTHOR PARO
 PETER WHITE, JR., PEMBNOKE, ONT. RIDGE WOOD PARK STOCK FARM SCOTCH SHORTHORNS



 EHIORTHORNE Two extra ohotoe young bulis of err-
vioeable age, from
mported sires; alloo Lifers. IOE ETERE Choloe yoarling owee, now bred to our
stook ram; aligo a fow good ram lambob
to
$\qquad$
R. A. \& J. A. WATT Salem P.O. $\begin{gathered}\text { Blora Station, C.P.R and G.T.R. } \\ \text { Telephone in house. }\end{gathered}$ SHORTHORNS compare fanderaly with hat botit haspoction
8 First-Class Young Bulls Ant an axaliat iot of oit ma
 DAVID MILINE, Ehel, Ont., Huron Co.


WE LEAD THEM ALL IN QUALITY, IN CHEAP-

> NESS, AND IN QUANTITY SOLD

Galvanized Steel Woven Wire Fencing

american Field and Hog Fence.


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\begin{aligned}
& \text { We call your special attention to our extra Heavy Fence, all Horizontal } \\
& \text { Wires No. } 9 \text { gauge. }
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- If your dealer does not handle our Fences, write to us.
made by The Canadian Steel and Wire Coo, limited,
WINNIPEG. MAN
HAMILTON, ONT.


## Dunn's Hollow Concrete Block Machine



The JAS. STEWART MFG. CO., Ltd., Woodstock, Ont. I CURED MY RUPTURE
 ${ }_{\text {h }}^{\text {l }}$ will show you se cure yours FRE




questions and answers


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


and increase to two pounds.
Warts. RUmination. etc.


Nine young bulls fit for service.
Showing the fln. est Oruickshank breeding. Good Size, Quallty,
Flesh and Bone. Inspection invited. Oatalogues on
application. JOHN DRYDEN \& SON, BrookIIn P. O., Ont.
PINE GROVE STOCK FARM ROOKLAND, ONTARIO, OANADA. S COT CH SHORTHORNS and SHROPSHIRES.
W. C. EDWARDS \& CO., Ltd., Props.
JOSEPH W. BARNET, Manager.
om T. DOUGLAS \& SONS, SHORTHORNS and CLYDESDALES Present offerings: 12 young bulls of No. 1
qualily, ready for immodiate sorvice; aliso
cows and heifers of all cows and heifers of all ages. Also one imp.
stallion and two brood mares.
ablo. $\begin{aligned} & \text { brices raeano. } \\ & \text { town. } \\ & \text { Visitors welcome. Farm one mile from }\end{aligned}$
om
maple Looge stock Farm
Kight very choice young bulls, of the
best breeding and from frist-class milkng cows A How handsame heifers
W. smithe, Maple Lodge P.O., Ont

For Sale wime Young Cows, with calves at
"ELLL BROS: The "Cedars" stcek Farm,

Why Should Not Your Span of Lifie Be Three Score Years and Ten?


The keystone to a long fpan of life is health, and with health any man or woman



The Keystone of Heaith.

 man is constantly using up his natural supply of Electricity The more estrenuous his
life, the more electricity he needs to enabele him to live to a hale and hearty old age.
"The excasses of youth are drafts on our old age ; payable with interest about thirty years after date."
(A8 Colton, the eminent, waid).
Therofor, ese that Yat YoU.
whour
your Electricity by wearing

## Dr.MacDonald's Electric Bell


 Free Trial for Ninety Days

 for thir inferior relts. If not cured, you return the Bel
willing to trust you entirely, knowing hat Ihave the be
invented. and nine men in ten always pay when cured.





DR. J. Q. MACDONALD, $8 \underset{\text { Bleury Street, Montreal, Que. }}{\substack{\text { Ble }}}$

## TROUT CREEK SHORTHORNS

A few very choice bulls and females, both im-
ported and home-bred, with superior breeding.
Sorted and home far calogue
W. D. FLATT,

JAMES SMITH,
hamilton. ont

GOSSRP。
The modern highwayman approached in an automobrile, ran down the citizen and
then demanded his watch. $\because$ You are taking. a ". Not at all," assured the highway-
man. "I want your watch to time my machine so I will not be arrested for fast driving."
When a Scotch schoolmaster entered the
temple of learning one morning, he read Cemple of learning one morning, he read
on the blackboard: " Our teacher Is a
The pupils expected there donkey. The pupise expected there
would be a cyclone; but the philosophic pedagogue contented himself with adding the word "driver," and opened the
school with prayer as usual.


Clawn as a breeding ground of high-
class Arshire cattle, which Mr. John W. Logan, the geninl proprietor, is always
pleased to show to anyone in want of such. His herd numbers about 35 head,
and are a big. strong lot. The cows
have the appearance of being heavy milkers, baving welll-shaped udders and
large teats. The stock bull, which Mr. Logan is offering for sale, Leader of
Meadowbank, is in good breeding condiMeadowhank, is in good breeding condi-
tion, and is made up of dairy conformation, and is made up of dairy conforma-
tion and qualities. He won frit prize
for call under one year at the Pan-American, Buffale, in a y strong class in 1901.
To anyone wanting a good Ayrshire bull we would say we think Mr. Logan is ofter-
ing him very cheap. He also has some bulls and heifers, by the also has some mentioned
sire, as good as any it has been our Theasure to inspect. The barn in which
they are housed is one of solid comfort. Well lighted (a point that is very much
teglected in most stables): water is plied by a windmill, and is is wanstantly be-
fore each cow, the feed being kent head in the same fuilding; a stationary
thresher is run by a tread-power Threshing can be a doned-power, so the
wearing stormy
weather, the whole outfit being inside building. The grain is usually
threshed just as the straw is required,
consequently there is no waste at that commodity. There is no waste of that
chen wanting good Ayrshires, write J. W. Logan, Howick St
tion, Que., formerly Allan's Corners.

QUESTIONS AND ANSWERS. Veterinary.

## treating lump jaw.

Thave a helfer coming three years old
his Just calved. She has a lump on her has ust calved. She has a lump on her
jaw about the size of an egg. Could
we use the milk or cream while we we use the milk or cream while we are
treating her with iodide of potassium ?
Will the lump disappear when she is Wur the lump disappear when she is
cured ? C. in so doing ; wut during treatment you
mivht allow the call to suck the cow The lump should disappear, though possi-
bly a slight thickening of the skin might

## distemper-dehorning calves.

 1. Distemper is very bad among thehorses here, and one of our horses has
it. Would you kindly tell me in your next paper what kindly the bell me to in your 2. Give a recipe for killing the horns
on young calves.
$\mathbf{H}$. $\mathbf{s}$. Ans.-1. Place the patient in a com-
fortable, well-ventilated stall, steam the nostrils woll two or thre times dally by
holding the head over a pot of boiling water, or a bag of hay on which boiling
water is poured; rub the throat twice daily with equal parts raw linseed oil,
cil "of turpentine and spirits of ammonia for two days. In the meantime
apply warm poultices an hour after ruh Feed on soft foord, and as soon as ab
scesses form. lance and allow eacape a puse Give internally twenty drops car-
holic acid three times daily. When complications occur, or the disease appears
in what is called irregular strangles each case requires treatment according to each case requires treatment according to
symptoms, and this can be given only by
the personal attention of a veterinarian
2. Procure from your drugglat a stick 2. Procure from your of druggist a sticick
of caustic potash, and touch the embryo
horn carefully with the molstened end of
the stick.

Obstinate Coughs and Colds.

The Kind That Stick.
The Kind That Turn To Bronchitis.

The Kind That End In Consumption.

Consumption is, in thousando of cacs, wothing more or leas than the fimal-resur of a meglected cold. Don't give this terrible plague a chance to get a foot-hold on your syatem.
If you do, nothing will save you, Take hold of a cough or cold immediately by malng DR. WOOD'S NORWAY PINE SYRUP. The firat dose will convince you that it will cure you. Mise Hannah F. Fleming, New Germany, N.S., writes:-"I com. tracted a cold that took auch a hold on me that my people thought I wae going
to die. Hearing how good Dr. Wood's Norway Pine Syrup was, I procured two bottles and they effiected a complete cure."
Price 25 cents per bottle. Do not accept Systitutes for Dr. Wood's Norway the syrup.
 Tonorro, Ont.


JOHNGARDHOUSE \& SONS Eighaold P. O., Ont., Broodess of Seotell and Spotch-tonad Sherthers,

 Stortibern Cattio and Lheoln Stion Shorthorn bulls, cows and
heifers for sale at greatly reheifers for sale at greatly re-
duced prices for the next 60
days.
J. T. GIBSON, - Denfield, Ont.

Scotch Shorthorns
 3D. BOBRNSOM,


 Boz 41. Dution P. O., Bivin-Co.. ome
Stations M. C. R and P. MI. Glood bulls at reasonable prioes, out of good
 turther partioular. Apply tor ins. Agr, Ont. Shorthorn Bull dure and active; a grand etock bull, Will nel
or exchange for another. RICHA BD WII Kid,




Sheep Shearing With up-to-date flockmasters, the old
fashioned practice of compelling the





 with hearyy foecese sunfer trom the heat tin



 vermin. With this discomfort they lose
feeh, or at least fall to gain, and there can
be little, if any, growth of wool under such be little, if any, growth of wool under such
uncomfortable conditions. There is often consifierable loss of wool from tis be parts when turned out to pasture on the
soft grass, and at this stage, fleces are soft grass, and at this stage, flecees are
apt to become matted or cotted, which half. No animal, save the cat, is more
averse to wetting its feet than the sheep. averse to wetting its feet than the sheep, and it is a cruel practice to plunge the
timdd creatures into cold water. We have known not a few cases where a
sheep diied in the hands of the washer
from sheer fright, or the shock of being from sheer fright, or the shock of being
forced to jump from the bank of a creek into the turbid stream.
In other instances colds and rheuma-
tism have been contracted not only by tism have been contracted not only by
sheep, but by the men engaged in the sheep, but by the men engaged in the
operation, resulting in permanent ill
health. very partially cleanser, a fleece, and it the market-price per pound for unwashed
wool be discounted by one-third or more, It is nearly If not quite mado up in the
extra weight. and is more than comextra weight. and is more than com-
pensated for by the improvement in the condition of the sheep and the rapid
rowth of the new wool, which will be realized in the next crop.
In the case of young sheep in good conIn the case of young sheep in good con-
dition, there is practlcally no risk in
shearing early in April, if their quarters are fairly comfortable, and they are kept
closed in for a few days. In the case chosed in for a few days. In the case of
rreeding ewes or sheep in very thin con-
dition, of course, the risk is greator and We do not advise shearing them before
May, unless a very warm spell of weather be taken advantage of. Nor would we shear the ewes before Nor would we
they wing, unless
there in very good condition, and due to lamb late.
A shearing floor may be constructed
right in the sheep pen by laying down horards enough to make a platiorm about
six feet wide and nadling later six feet wide, and nailing battens across
them. This placed close to the wall on one side answers the purpose very well,
and may be stond up and and may be stood up and tacked to the
wall when not in use. It is well to trim wall when not in use. It is well to trim to shear it, as the hoofs are onpt to be be
overgrown from standing on soft hedding,
and foot rot is liable to be contracter growth. If there are of dicks onder this the ewes
when shearing, it is goocd practice to
 lambs should be dipped to clean them o
ticks, a and then little care will be
necrussary for monthe Among official records of 39 Holstein
Friesian cows tested from
3other 30th, 1905 , are the from March 25 th to
Canaring owned in in Maple Grove Belle Paulin
C5592

 months 10 days, days from age 2 yearving, 9
Milk, 296.6 lbs.; per cent.
 age 2 years 5 months, days from calving,
$\vdots$ Mik, 303.8 lls. ; per cent. fat, 8.29 ,
nt. 10.015 lhs Tillsonburg, Ont. Countess Calamity
2ueen 67567 , age lays, days from calving, 17 : Milk, 254.5 Whor, George Rice, Tillsonburg, Ont. Prom calving,
cent. fat, $\mathbf{3 . 8 8}$ cent. fat, 3.88
George Rice

## We Paid \$100,000

For Liquiozone, Yet WYe Give Your a Soc. Bottle Bree.

We paid $\$ 100,000$ for the American
rights to Liquozone; the highest prie ever paid for similar righteso on any
scientific discovery. We did this after through physicianct for two years, this country and others. We cured all kinds of germ diseases with it-thou-
sands of the most difficult cases obtainable. We proved that in germ troubles it always accomplishes what
medicine cannot do. Now we ask to try it-try it at our expense. Test it as we did; see what it doer. Then you will use it always, as we do, and
as millions of others do. You will use it, not only to get well, but to keep
well. And it will save nearly all of

## Kills Inside Cerms

Liquozone is not made by compound ts virtues are derived solely from gas quiring immense apparatus and 1 days' time. This process has, for more ject of scientiffic and chemical re
search.
The result is a liquid that does what oxygen does. It is a nerve food an the world to you. Its effects are ex hilarating, vitalizing, purifying. Yet publish on every bottle an offer of $\$ 1$, 000 for a disease germ that it cannot

Quenston Heights Shorthorns FOR SALE-Two Bcotch bulls, from
inported sires and ond
highoms
hig-tiass and of ohoicest breeding

Write for particulars.
HUDSON USHER, Queenston, Ont FLETOHER SHORTHORNS Our herd of breeding oows, both imported
and home-bred, are of the moest faghionabl
Bcotch famile




Bolvollw boola Eransin SHIRTHORN BuLLE, various ages; im
portod and home-bred. by imp. Gay Lothario
 dama winner, yrandam 1st Highland Show.
YORK8HIREE-
 SHORITEORIS! One red bull calf, and one red three日
year-old heifer co calf Many llt. All

from good milk ing strain. To be old cheap. GLENAVON STOCK FARM, | W. B. Roberts, |
| :--- |
| omas Stn. |
| Bparta |

CLEAR SPRING STOCK FARM HIGH-GLASS SHORTHORNS
 JAS. BROWN, Thorold Sta. \& P. 0 SHORTHORNS and CLYDESDALES Spicy Count (Imp ), 5 thick, fleshy bulss,
12 months old: fow heifers and 6 epleodid Clydeonda
ered. All young.
JAS. McARTHUR Plne Grove Stoek Farm. Gobler's. ONT. First-class Shorthorns breding. Alo 8
Writit for pricos,
Bowmanvile sin
Bowmanvile stn,
${ }^{\text {Offers }}$ Shorthorn Bulls
shire sows in pig to imp bollumber of yrin
that will ind ind uce sou to tuy. Write for furt he
particulars.
kill. The reason is that germs are
vegetables ; and Liquozone -like an excess of oxygen-is deadly to vegetal $\left\lvert\, \begin{aligned} & \text { Feverna-Garysipelim } \\ & \text { Goitre-Cout }\end{aligned}\right.$ There lies the great value of Liquozone. It is the only way known to kill tissues, too. Any drug that killsgerms
is a poison, and it cannot be taken internally. Medicine is almost helpless in any germ disease. It is this fact humanity. And that worth is so great chat we have spent over one million
dollars to supply the first bottle free to

## Cerm Diseases

| These are the known germ disea |  |
| :---: | :---: |
| troubles is to help nature overcon |  |
| the germs, and such results are in |  |
| the germs, wherever they are. And |  |
|  |  |
| destroyed, the disease must end, |  |
| d forever. That is ine |  |
| hma | Hay Fever-Inf |
|  |  |
|  |  |
| ight |  |
| Bowel Ti | Malaria-Neuralyia |
| ghs | Many Heart Troubles |
|  |  |
|  |  |
|  |  |
|  |  |
| drufl-Dropsy | ach Trout |


|  |
| :---: |
| CUT OUT THIS OOUPON, for this offer may not appear again, Fill out the blanks and mail it to The Liquozone Company, $45^{8-464}$ Wabash $\Delta$ ve., Chicago. |
| My disease is. <br> I have never tried Liquozone, but if you will supply me a 50 c. bottle free $I$ will take it. |
| $\mathrm{D}_{3} 66$ |
| Give full address-write plainly. |


| YOUNG SHORTHORNS for sale eithe grand Golden Drop show bull, Kinellar Stam (Imp.). Inquiries cheertully answered. Solomon shantz, Haybville P. O. Plum Grove Stook Farm. o Baden Sta | maple cliff dairy and stock farm <br>  R ERill $\$ 00$. |
| :---: | :---: |
|  | MEADOWSIDE |
| to choose from. 74 First Prizes, 1904, We have what you want, male or female <br> B. H. BULL \& Son, $\underset{\substack{\text { Phone } 88 .}}{\text { Brampton, Ont. }} \underset{\text { ow }}{ }$ | re Oattle, Shropshire Sheep. Berkshire Pige, Rocks and B. Orpingtona. Eggs for hatching doz, Young stock for Bale. |
|  |  |
| Barren Cow Cure makes any animal under fund money. Given in feed twloe a day With your Barren Cow Cure I succeeded in getting two of my cowr in oali-0ne 10 year8old, and had previously been served repeated ly, to no parpose" ${ }^{- \text {-ays }}$ M. E. Reeder, Muncy,Pa. Particularsomom L. ․ Bichancer, Mortisbarg. Ont. | Cornwall G. ${ }^{\text {P }}$ |
|  |  |
|  |  |
| Jerseys - Bull calf for sale, from Dido of Pine dred Per Ceot, and pired by Idars Sonny, a son of Canada's John Bull the 5 th Junior. Also WILLIAM WILLIS, o Newmarket, Unt | milk tests at Toronto, Ot and Guelph (5 years), and among many other prizes in the show-ring, including |
|  | age |
| Springbrook Ayrshires $\begin{aligned} & \text { are hea vy milkers and } \\ & \text { high testers } \\ & \text { Fors ande }\end{aligned}$ Three bulls. 9 monthe old; 2 bull calver, dropped in January last: also females of all ages. $\qquad$ | ter in 7 doys, 10 hitfere (average age 26 ibs. butter in 7 dass. That is our idea handle. A fow, good young bulls, 1 to 13 moo., for sale |
|  |  |
|  | SHANNON BANK STOCK FARN |
|  | YRSHIRES AND YORKBHIRES <br> Young stock of both sexes for <br> sale from imported stock. |
|  | HOLSTEIN-FRIESIANS at RIDGEDALE FARM |
|  |  |
| WOODROFFE AYRSHIRES |  |
| 25 head for pale, 4 to 20 months old, from cows in my herd record. and aired by lstprize bull at St. Louis World's Fair YORKRHIRE BWINE of besi always on hand at moderate prices, Terms to suit purchasers. Infpection invited. Termsto <br> J. G. CLARK, - Ottawa, Canada. |  |
|  |  |
| AYRSHIIRES <br> Do you want to get a grand ing and individuality a-good a <br> W. W. BALLANTYNE. <br> Stratford Stn. and P. O., Ontario. |  |
|  |  |
|  |  |

maple cliff dairy and stock farm

 MEADOWSIDE FARM
 AYRSHIRES, $\frac{\text { q oroice bull calves four }}{\text { gix }}$ roduction. DAVID LEITCH, Prices right HOLSTEIN COWS Opwned by me (formerly at Brokbbank
Btock Farm, Curries) won all forts of
honors in mill and Guelph 15 yeerras), , and amonong any
other prives in the sho wring, ingluding sweopstakize
American
in the world. proving, We have now 5 cows whose
official test average 20.4 5 cos. butter in 7
days, 10 cows whose
 Ibs. butter in 7 days, 10 ( 3 and 4 yrs.)
wbose offloial teat avera ter in days, 10 hifiers (average age
mos.) Whose oflial test average 11
lbe. butter in 7 dask. That is our idea han diriry herd, and. the tind is our stidea
handle. A fow sood young bulls, 1 to
13 mos., for sale mandale stock Farm, Tils SHANNON BANK STOCK FARN HOLSTEIN-FRIESIAMS at RIDGEDALE FARM red from rich mor malke, from 3 to 9 months old
 Bulls reasy for service by the invinibibl
weepstakes bull Judge cal ves. Tam worths of the mot coine aproved
ype. A few sows in farrow to offer. Write Watarion A. C. HALLMAN,

## FIVE-YFAR-OLD BULL

Rell' Burke Mechthilde. Arince.ll with


APRIL 13, 1905

GOSSIP.
Mri John Kerr, Redhall, Wigton, Cumberland, has sold a couple of big-sized,
good horses to Mr. Ghomas J. Berry, good horses to Mr. Chomas J. Berry,
Hensall, Ontario. These are Scotland's Hensall, Ontario. These are Scotland's
Stamp (11522) and Champion Agaln Stamp (11522) and Champion Agal (12522). The former was bred by Mr . Alexander Wilkie, Pitlandie, Stanley, and Juryman mare, while Champion Again Juryman mare, whin
was bred by Messrs. Wood, Glencogo, and got by Nell Gow, out of a Royal Champlon mare. They this country, but their adveat in Canada may bring increased orders here, so says the Scottish Farmer.

Clydesdale stallions for can
Mr. Walter S. Park, Hatton, Bishop ton, has sold three well-bred stallions to
Mr. T. H. Hassard, Millurool, Ontario, Canada. These are all of good breeding
and quality, and like suiting the foreign and quality, and like suiting the foreign
demand. Amongst them is the Hiawatha horse, Braes or yet (hat pame by
was bred at the farm of that pat Mr. Andrew Douglas, and through his dam, Lady Caroline, traces back to
cebrated breeding horse Gartsherrie celebrated breeding
Royal Errant (12326), which accompanies
H. hym , was bred by Mr. D. R. Christie,
Broughmore, and was sired by Royal Broughmore, and was sired by Royal
Favorite, out of a Knight Errant mare,
while the third animal. Good Quality while the third animal, Good Quality
12591 ), was bred by Mr. Thomas Pat Wester Middleton, Gorebridge, and got by M'Iver. These are thick, blocky horses of a good type, and we trust Mr. Has-
sard will be lucky with them.-[Scottish
 Messrs. R. MItchell \& Sons, Nelson
Ont., write: "/ Recent Ont., write: Recent sales of Short
horns from our herd are: To J. C. Little
john, Highgate, Ont., one of the bes
bulls we have ever bred. This call is Grenglll Victor (Imp.), and out
Imp. Rosy. To Walter Renwick, Hunt Ingfeld, Ont., a very promising ten-
months-old bull calf, by Imp. Strawberry Chilet, and out of Imp. Augusta Girl, Cashtown. Ont., a fourteen-months-old bull, by Greengill Victor, and out of
Imp. Princess Victoria. This bull is a ery showy, blocky one that will make
getter of the rlight kind, being of the rulckshank Victoria Ramily, To Geo McKee, Winthrop, Ont., our herd bull
Imp. Greengilli VIctor, the best atock bull
we have ever owned, being a richly-bred we have ever owned, being a richly-bred
Princess Royal, sired by Lavender Vic
tor. and out of Princess Roya $\begin{array}{llll}\text { or, } & \text { and } & \text { out } & \text { of }\end{array}$ ow, Merry Princess, a Campbell Clemen-
ina, by Scottish Prince. This cow is
orrond in calf to Creengill Victor, and orward in calf to Greengill Victor, an
s one of the choicest individuals, belng
he best helfer calf in our 1901 impor The excellent herd of Scotch and
Scotch-topped shorthorns belonging to to
Mr. David Birrell, of Greenwood, Ont., Scotch-topped Shorthorns belonging to
Mr. David Birrell, of Greenwood, ont.
was recently seen by a representative o was recently seen by a representative o
he ". Farmer's Advocate," and found in ine condition. This herd was established
over 30 years ago, and has had the beneover 30 years ago, and has had the bene-
it of a long list of high-class 1mported
sires of the most approved Cruckshank nd Campbell, of Kinellar, breeding, mat with females of similar breeding an
character. The present stock bull
Imp. Royal Prince (4149) of the
Imvorite Golden Drop family, bred
 Kinellar. This grand stock bulu whing
sire of most of the splendid young thing
in the Thistle Ha' dispersion sale in January last which brought such high
prices. A few excellent young bulls of
scrviceable age are offered for sale, sired erviceable age are offered for sale, sired
by Imp. Blue Ritbon, of the choice Rose
and from the Crimson mary tribe, and from the Crimson
Flower and other families, which haver
nronuced winners of champlonship hono at Toronto and other leading shows
Some capital heflers and young cows are
Salso being offered. Parties looking for
young bulls of the right stamp should
y.ile Voung bulls of the rarties looking for for
wrimp should
write Mr. Birrell for prices, or better
otill call and see the stock at his farm

THE FARMER'S ADVOCATE.
Houl And bualnees ?" merchant, Low ${ }^{\circ} \cdot \mathrm{yy}$ you and bushnes By advertiling,"," replied the up-to
ato man. Same with the otockmen. At a combination auction sale of Aber-deen-Angus cattle at Dextor Park, Chi-
cago, the last week of March, 59 anicago, the last week of harch,
mals sold for an average of $\$ 174$. The mais soid eor
top of the sale for bulls was $\$ 710$, paid
by L. H. Kerrick, Bloomington III., for by L. H. Kerrick, Bloomington 11. ., for
Imp. Lord Fretful 62284 , bred by Sir
In George McPherson Grant, and owned by
O. G. Callahan. The top of the sale for emales was $\$ 700$, paid by C. J. Martin, Churdan, Ia.. for Blackbird 23rd
bred and owned by M. A. Judy. bred and owned by $M$
Mr. James Bowes, Straithcairn, Ont., ing a change in his advertisement. writes that his herd has wintered well, and
that sales have been very good. He has a herd of 45, comprising such well-known
families as Marr Floras and Stamfords, families as Marr Floras and Stamfords,
Minas, Nonpareils, Crimson Flowers, any Minas, Nonpareils, Cr
of which are for sale.

Mr. W. H. Simmons, New Durham, Ox-
ford County, Ont., breeder of Holsteiond H. Kells, Queensboro, Ont., which were in the Arrst-prize herd of four calves un-
der one year at Westorn Fair, Londo der one year at Western Fair, London,
1904. The firat-prize bull calf at Lon1904. The first-prize bull call at Lon-
don went to head the herd of Mr. R don went to head the herd of Mr.
Honey, Brickley, Ont. Second-prize bu calt at Toronto went to Mr. S. Facey
Belton, Ont. This calt's dam is a Record of Merit cow, and her sire a Record of
Merit bull. The third-prize bull calf at
Toronto went to Mr. A. IIwin, Crumlin
Ont. His dam and her sire are also ad
mitted to the R. of M. She made al most 18 lbs . of butter in 7 days as
four-year-old, second largest record made in Canada of her age in 1904. Another Chisholm, Ont. His grandsire is a brother to world's champion two-year--
old, Altje Posch, 27 lbs. butter in 7 old, Altje Posch, 8 rd, 28 lbs. butter in
days; also Mercena 7 days at four years old. All the calve mentioned
wane sired
Pame this sire, one to six monthe old, what
dams are in the $\mathbf{R}$. of $\mathbf{M}$. I also trav callves born in September, 1904, imported
in dams, sired by Prince Calamfty D in aras, sired by Prince 17 lbs. of
Kol Paul, whose dam made 17 ,
lam, butter at three years ota, her
Calamity Jane, 25 lbs. butter in 7 days. The dam of the slre of this bull, Maple
Croft Maid, offcial test 22.98 lbs. of butter in 7 days. I have also sold to Mr. W. A. Hartley, New Durham, Ont.. of 18 lbse butter In 7 days.

Mr. J. E. Brethour, Burford, Ont., Hreedor of Yorkshire hogs, writes: :" Our
winnings at st. Louls comprised
 championships, 2 grand champlonships
3 reserve grand
champlonahips.
and reserve grand
premiter champhonhlp for breeder of
Large Yorkshlres. Every anlmal ahown by us was bred and fed at Oak Lodge,
with one exceptlon, and this one traces with one oxcly to stock from our herd.
back directly The winning of grand champlonhitp a duce an animal able to win, not only agit against the plck of all other breeds, requires more than theoratical training.
Oak Lodge Fredercle, the grand chamOak Lodge Frederick, the grand cham
pionshlp barrow, was shown Arrat in
in under 12 months, here he won firat, and afterwards won champlonship for York
ahire barrow, any age. He was then phire barrow, any age. Champlon barrow,
pitted agannst the Cor 6 and under 12, for each of the
over other breeds, winning the grand cham
phonship over all. He was also giver reserve grand champlonship against all
breeds and ages. The production of this breeds and ages. The production of this barrow is not, by any means, a chance
shot, but is rather the consummation of breeding to an ideal. A glance at his breeding shows him to descend through
seven generations of Cinderella sows, perseven generations of Cinderella sows, per
haps the most celebrated family or strain of Yorkshire plgs in America. His sire is a member of that other noted
family of Oakk Lodge Yorkshires, being a Yamily of Oak Lodge Yorkshires, being a
son of Oak Lodge Julla 7 th. The sire
and dam of this wonderful plg are still

Nerve Racked
Men and Women ad Balm for their Terrible Sufferings in
'S HeArt And NERVI They tone up and atrengthen the the heart, and purify and enrich arstem in perfect working order and restore health and vigor to both body and brain. Miss Endythe Lin that I hivio arperienode Eroill rolite



- por boz, or 8 for gl.m.



Forty head to selloot from. Such great giro offorings: Young bulls, oows and heffers, all
 Ho miva guarantedio, OMAmPTON, Owt. Woodlbine Holsteins



A. KENNEDY, ANT:

Maple Grove Holstelns -In offleal tosts thes
 Yaple Glen Holsteins-special offering: Two one erom a 7ollbs. a-day dame A ohoice pair ol


Lyndale Holsteins
Over so head to choose from. A
number of young cows nad heifers
for sale. Sil young bulls from 8 to BROWN BROS.
Riversido Holstains


imperial stock farm holsteins.



DORSET HORN SHEEP and SCOTCH SHORTHORNS
 IV, and the former comprising more Roysal win
ners and more St. LLuisprize winers than any other flook in
wayb on hand.
John A. MeG

BetterFruits-Better Profits berter peaches, apples, pears and
 ise a fertilizer containing not les

## Potash




Lincolns are Booming



F. H. NEIL \& SONS,

Sheep Breeders' Associations.



 SHROPSHIRES


## Tamworth Suline and Sidortion Gattle


隹


 OOLWILL BROQ.. WEWOAOTLE. ONT. tamworthe and holeteine




Large Engllish Berksilires. For Ealo- One and a oho ol olot of both ageof from too monthi
 Owigg to uforaenon olrcumatanoos, I havo boen anablo to supply cuatomers for



## 

Bargains YORRSUIITES dartigs Marrh and

 CHESTER WHITES
 W.E.WRIGNT, LHIOESTOL





THE FARMER'S ADVOCATE.
cossif. Mr. Richard Wilkin, of Harriston, Ont.,
Rdvertises for sale or exchange the advertises for sale or exchange the
Scotch-bred four-year-old roan Shorthorn
bull, Provost $=87865=$, sired by Imp. Palmero (77387), dam Imp. Scottish Ringlet, by Scottish Victor, a Sittyton
Victoria, by Scottish Archer. Nictoria, by Scottish Archer. Palermo
was by Prince of Rettie, a first-prize win-
ner at the Royal Northern Show at Aber ner at the Royal Northern Show at Aber
deen. He is grandly bred, and said to be in fine condition, sure and active.
Mr. Wilkin will either sell or exchange for a suitable one, as Provost's daughter are coming of breeding age.
Mr. John McFarlane, Dutton, Ont.,
writes: ${ }^{\text {U }}$ As our cows are now in calf Writes: Ahs our cows are now in cals
for the third time, we are offering for
sale the grand imported bull, Royal sore the grand imported bull, Royal
sale the M. B. $=4523=$ E. H. B.
Prince D. H. B. Prince D. H. B. $=45223=$, E. H. B.
( 82181 ), bred by Geo. Campbell, Whitehouse, Harthill, Aberdeenshire, sired by
the Duthie-bred Golden Fame, by Lord of Fame, dam Sittyton Goldmine, by Pride of Morning. His dam was Mattie (imp.) Ry Lovats Chief, by Merry Archer. succossful wherever shown. He is quite
active and useful; three years old last active and useful; three years old last
November. He is a dark red in color and in fair condition; will weigh 2,300 lbs. I am now offering this grand an
mal for $\$ 300$ cash." Mr. Wm. Willis, Newmarket, Ont... who
udvertises. Jersey cattle and Barred Rock udertises hatching, writes: "I saw an
egrs for
article in the 'Farner's Advocate,' recently, by T. C. R., concerning dairying.
I would like to tell you that we made I would like to tell you that we made
from 10 cows last year the sum of
$\$ 817.45$ in cash for butter and some cream, and we had besides a
the butter we wanted to use in th the butter we wanted to use in the
family with milk nad cream, and as we
were fixing our barn last year, we had to board carpenters nearly a month
Fach cow also had a live calf. I think
there are others, perhaps. who make
more than we do- those who ship cream there are others, perhaps, who make
more than we do-those who ship cream there
more
all the
impro
$\underset{\text { Mrites }}{\text { Mr. }} \quad \begin{aligned} & \text { Robert } \\ & \text { Miller, } \\ & \text { Stoufiville, Ont., }\end{aligned}$ ago I have sold the following Short-
horns and Shropshires : To J. A. Mchorns and Shropshires
Clary, Hillhurst Clary, Hillhurst, P. Q., the
bred fourteen-months-old Duchess of Gloster bull, Lord of the Forest - $56261-$.
He is a splendid feeder, has a grand coat of hair, and is a beautiful roan
His sire was the I'rincess Royal bull, His sire was the Princess Royal bull,
Prince of the Forest ( 81943 ), imported by me, and sold at my sale in 1902 . He that time by Messrs. Chinnick, Chatham
Ont., and this calf was bred by them. His dam was, when bought by the late John I. Hobson, the choice of Arthur
Johnston's herd, and she has been a wonJohnston's herd, and she has been a woor
derful breeder, she also topped Mr. Hob derful breeder, she also topped Mr. Hob
son's sale. This calf should be a grea since, and he is a good show bull. To $A$.
Jamieson and Watson Bros., Greenban
 ported by me, and used with great su
cess in the herd, Intely sold by Dr. R 1 . W
Forrest. Mount Albert Ont Ho. is Forrest, Mount Albert, Ont He is
good red, a smooth bull in filir condition
and a doocd show bull when in good form His breeding could not be better, of
hie has the splendid Broadhooks bul,
 was by Bromley, a Marr Bessie tha
made the highest prico $W$. S. Marr cvar made the highest price W. S. Marr ev
realized for a bull, and his grear
grandam was an thic Cruickshauk buil. grandand (33397), a Crocus of the
Cleveland
finest breeding. Many more sires follow from the use of such a bull. To H.
Burruss, Carrollton, Ill., have sent splendid Shropshire ram and ewe lamb,
nnd 33 Cotswold ramm and ewe lambs.
good as could be found in Canada. John Kivlin, Brooklyn, Wis., have sen
23 beautiful Shropshire ewe lambs, and
52 ram lambs. I have good demand for hoice bulls, nod ithave good demand to to we well-fixe

## EMLISH BERKHPRES



Ounde oombined. Wo won mone broed orb in

 O.O. MILQROVE, ONT. Woodstock Hord of Largo Whito vorkshikes
 ber farrow. Pairs supplied not akin. Write SNELGROVE BERKSHIRES A number of large,
good sow, to farowin in
Karch and April, and
expect to have some
 hime to order. Our herd has won more firsy
orizes atleading shows in Ontario than any
other. Pigs of different ages for sale. Write


 JOHN BAOEY, JIf., at once. | Lemnoxville, Qun |
| :---: |

Oakdale Berkshires
 arder for a pair or trio not akin. me book you L. E. MORGAN, Milliken Stn. and P.O GLENBURN HERD OF

## YORKSHIRES

 of fine goung pow an

onthe olciat pil eaoh DAVID BABPI ORCHARD HOME HERD (Registered) Large Engllsh Yorkshires and Berlishilres Only choioe stook kept, imported and home-
brodd of moat approved typos eolected with
groent oare and at high prioes. We ship, ex-
 reseling."
dealing.
p. D. D. CRA S. D. CRANDALL \& Sons, Cherry Valley, Ont ENGLISH BERK8HIRES,






For Sale onimproven Chester Whites, the


YO RR IK AHIIR IE or sale all ages, from lmported privewinning
stock, of both sexes. Palr not akin. GEO. M. SMITH, Haysville P. O., Ont MPROVED LARGE YORKSHIRES pigh six to
stock. Pair an
lour to six mot

Now is the time to or young pigs for May

Detroit Speciallst Making Men's Diseases a specialty for Years,
WIIA Accept Your Case, Giving It Individual Treatment. You may Use It in the Privac
You May Pay When You are Cured. A Detroit Specialist who has 14 diplomas and
Certificates from medical colleges and state board of medical examiners, and who has a vast exper
ience indoctorng dise ases. on men, is positive he
can cuice a great many so called incurable cases


DR. S. GOLDBERERG.
The possessor of it diplomas and certincates,
who wants no money that he does not earn. order to convince patients that he hasthe abil
y to do as he savss. Dr. Goldiderg will sccept your
 to get corread as he huarantees a positive cure for
alt chroni, nervos. blood and skin diseases.
 troubles, blood poison, physical and nervous
debility, lack of vitality, stomach trouble, etc.


 receive careful attention and a correct diapnosis
oo four anse will be mad free of charge of tou
have lost faith write him, as you have every hing
 ownedicines or patients are prepared in his
ond laboracory to meet the equarementsof each
individual case. He will send booklet on the
subject, which contains the 14 diplomas and certificates, entirecly free. Adress him simply
Dr. S. Goldier, 208 Wod ward
Detroit



Improved Chester Whites and Tamworths From this herd have been winners at leading
exhibitions of Ontario and wuebec for a num
ber of years. New importailons. firect from
 3 to 4 months oid. Am booking orders for
spring pigs Pairs furnilhod not akin Ex.
press diarges prepaid. Pedigrees and safe
arrival arrival guaranteed.
H. GEORGE \& SONS, Crampton,Ont. LARGEENGLISH BERKBHIRES
 younk sows, bred to
my importod boar,
which are due to far. Which are due to far-
row in Apriland May.
Allo a fow boars
ready for service. Have bome nice things throe four and five
months old, for both seoes. My herd won all the
champion prizes at Dominion Exhibition in WILLIAM WILSON, Box 191. Brampton, ont. RYBR VOBENT CLARKE. $\underset{\substack{\text { Importer and } \\ \text { Breeder of }}}{ }$ Chester White Swine Pigs ehipped not akin
to each other.
tor
Write 41 COOPER STREET. OTTAWA. ONT MAPLE GROVB YORKSHIRES FOR SALE

H. GEORGE \& SONS, Crampton, Ont.
 Touse gander and two Pee in bantam cockerel-
 He was sired by bul, Royal Archer
Nonpareil bull Imp. Noyally-bred
Non Nold at Mr. Isaac's sale in Markham for
sold
7700. \$700. Royal Archer's dam was Imp.
Lady Lorne, by the excellently-bred Lady Lorne, by the excellenty-bred
Lavender bull, Pride of Lancaister. Mr Moffat's bull is not only splendidly bred,
but he is a first-class bull, and he should prove a great acquisition to the locality
that is lucky enough to have him within
reach."

Miss Helen Gould recently entertained t luncheon at her residence a number of
litule girls from a charitable institution At the end of the luncheon Miss Gould
howed to the children some of the henil siful contents of her home.
She showed them books, carved Italian
furniture, tapestries, and marblcs "Here," she said, "is a beautiful.
statue, a statue of Minerya." irl.
". No, my child," said Miss Gould,
One of the oldest established herds
ames Benning, of Williamstown P.
Hengarry Co. Until quite recently, this
establishment was controlled by Messrs.
D. Benning \& Son. A few months argo,
the senior member of the firm, Mr. D.
Benning, was suddenly called to his re-
vard at the age of 79 years. ${ }^{\text {Several }}$
ears ago Mr. Benning was one of the
leading exhibitors of Ayrshire cattle and
Leicester sheep, having won silver medals
and diplomas as far back as 1868, and
prominent a part in show-ring circles.
rom have irequently been drafts bough
ferds. The herd strengthen other show
50 and 60 head, and is a business lot:
7556, a two-year-old, imported by Jas.
Roden, of Ste Anne's. This bull is most-
y white, has well-sprung, deep ribo
white, has well-sprung, deep ribs, is
ong in the hind quarter, and has a good

2nd of Knockdon 4239, dar
Uairnsaigh 4th of Aitcheson's Ban
2372 We are informed that Mr
her owner would not price. Among the
emales that this sire is being used upo
are several of the White Floss strain
el
on 1st and sweepstakes as a two-yeas:-
Id at the Chicago World's
re a deep-bodied lot with large well-
shaped udders.
Several of them are
Saladin 6everal of sire of many

# LOST STRENGTH 



Varicocele, Weakness and Loss of Vigor are quickly and orever cured by the Grand Product of Nature, Dr. McLaughlin's Electric Belt. Send for Free Book.

## WEAK MEN, BRACE UP!

Stop the Drain Upon Your Vitality Before it has Destroyed all Your Happiness and Strength.
Don't allow this daill waste to take awny all the ploasures of hriugs: don't see yourself losing your nerve force, your manhood, when a cure ithe
hand. You know that you are growing older and weaker every day; nnd that hnless you cure yourself now you will soon be a wreck. You have pails and aches, dizzy spells, despondency, oonfusion of ideas, weak back, stomach
trouble,
Oonstipation and are growing weaker th every Wati
Ouro jourselt trouble, constipation, and arr growing weaker life
now and enjoy happiness for the rost of your life.
Dr. McLaughlin's Electric Belt
With Electric Euspensory for Wreak Men, which oarios the dirrent direct to the weak parts and cures all weakness of men, variocoel ource It dievelops and expands all weak muscles and stops physioal deony; No case of Failing Vigor, Varicocole or Debitity oun reetit the prourtit Electric Suspensory. It never falls to cure
I don't ask anyone to buy my Belt on speculation. I don't ask you to take any chances of a failure. I take all the chances of curing you. If you are suffering from Rheumatism, Lame ciack, Lumbage Sciatica, Varicocele, Nerrote Bebuity, Conetiletion, - oel
It Will Cost You Nothing Until Cured.
It Will Cost You Nothing Until Cured.
This drain upon your power causes Kidney Troubles, Rheumatism and Stomach ailments. Yo
I have cured thousands of men who have squandered the savings of years in useless doctoring
My Belt is ensy to use ; put it on when you go to bed ; you feel the glowing heat from it (no stings or
the nerves tingle with the new Thre flowing Iars After
Dr. McLaughlun
Dear sir, -I am woll pleased still with the sood your Beit clld me. It strengtham well and atrong now for the past thre


No man should be weak; no man should suffer the loss of that vital element which renders life worth living No man ahould allow himesif th become loss a man than nature intended him ; no man should sufter whe nerves from which men suffer are due to an early loss of naturefe reserve
trength. Mrength of the pains, most of the woakness of stomach, heart, brain and nerves from which men suffer are due to an early lose of naturef meserve ou may be as happy as any man that lives.
t does great work, and those whom I have cured are the more grateful Itdoes great work, and those wh
FREE BOOK. If you want to fool as atrong as you used CALL TO-DAY get up in the morning rotroshed and . strengthened for your day's work, and mong Mon, don't delay writing or calling upon mo. Investigate my method and I will prove to you why it will cure you
book I send it olosely moaled. Oall for free consultation.


OUESTIONS AND ANSWERS
Miscellaneous.
Removing whitewash-brine for pic KLING PORE-DAMP POULTRY-HOUSE. whitewash off of ceiling, so ceiling can be painted?
2. Could you tell me how to mak 2. Could you tell me how to make
brine to pickle pork so th would keep
next summer ? do not want to dry salt it. 3. I bullt e henhouse, $24 \times 12$ feet,
shanty roor, windows all in south, stone
foundation, foundation, coal ashes in bottom, level
with top of stone foundation, sleepingwith top of stone foundation, sleeping-
room made frostproof ; it seems to be all right. Scratching-room is one thickness
of siding. It is always damp of siding. It is alway damp and
frosty; coal ashes work up wet. Could frosty: coal ashes work up wet. Coul
you tell me what makes it damp an you tell me what makes it damp and
frosty? Could I cement the floor,


Ans.-1. We have seen whitewash re-
moved by craping with a knife and then
washing but the job is rather tedious washing, but the job is rather tedious
nd disagreable. If any reader knows and disagreeable. If any reader knows
a better way, let us hear from him. 2. In an oak barrel, containing a amount of water equal to the amount of olve ordinary salt until the brine will bear a fresh egg high enough that the arface a 3. May apartments are connected, the vapor would naturally congeal mostly on
the thinner, hence colder, wall of the scratching-room. Melting of the frost during daytime would tend to keep the rom damp. If too cold, line it insidu any objection, except expense, to putting
in a concrete floor, provided it is covered
with 8 to 10 lnches of earth, which should be changed at least once a year wTPIVG AND PBurnio mepas WIRING AND PRUNDNG HEDGE We have a hedge about nine years old; to two inches through; some are not very thick. Would you prefer putting wire
through it? through it ?
2. Would it injure the trees to staple the wire to them?
3. What timee of the year is the best for trimming?
w. W. put through the hedge could certainly be visable if it is desired to malke it stock proof. Staple onto the strongest trees with small staples, and no injury will be 3. The earller now the better, if a vigorous aftergrowth is wanted. PrunIng in June tends to check growth, but
keeps the hedge in shape longer.

FLAT-roofed sumphias renturc I have two fithroofed bulldinge loelk and gravel, the other with throeply roofing. 1. How can I make them tight? 2. What in the beat roofing for gath
Dised
roofed building ? Ans.-1. To repair the threo-ply root apply a patch, using tar to malo the patch stick and to seal the jolinta. The oal-tar-and-gravel roof murt be patchod Fith more of the same material, applled
 work.
2. The contractor to whom thls quesHon was referred expressed a proferences
for felt paper, tar and gravel, but mitted it waper, tar and graval,
moperi question. mould advise you to write our adven
tisers.


When you come to buy harvesting machinesreapers, binders, mowers, gasoline engines-or farm implements of any kind, the one matter to which you ought to give first and most important consideration is :

What machine or implement will give you the best service? What will make the most money for you in the long run?
It's purely a matter of business with you, and youif you are wise-are looking solely to your own best interests.
You have to pay the bills; you should see to it that you get the best returns for your money and not let prejudice of any kind blind you to your own best interests.
A man can't very well fool you on a horse or a bull or a hog. You can "size up" the animal and determine for yourself how much he is worth, but unfortunately it is not always so easy to tell about a machine. Poor materials covered with paint may look every whit as well as the best materials.
So you have to go farther back than the mere looks of a machine.
You want to know-first-something about its rep utation. Has it been doing good work? Have the people who have been using it been entirely satisfie with it? Has it proved durable and dependable?
If it does good work for hundreds and thousands of farmers working under the same conditions that you work under, it is very likely to do good work for you.
Then you want to know something about the company that makes it. Are the manufacturers in position to secure good materials? Have they facilities for turning out good work? Are they interested in making machines that will give them a lasting reputation or do they want "to get rich quick" at your expense ?

These are things of first importance to you in buying farm machinery or implements.
These are things which we ask you to consider earnestly before you make your purchases for 1905.
More Canadian farmers are using machines and
implements of the International Company's manufacture than of all other makes combined-not because they have to, but because they want to; they have found that the International line gives them better service, longer use, greater satisfaction and that their purchase is the best economy for the farmer. If the International machines satisfy these discriminating buyers, they will also satisfy you.
The International Company has exceptional facilities for producing high-grade machines at a fair and reasonable price. Its new plant at Hamilton, Ontario, is without question one of the most completely equipped manufacturing plants of the kind in the world-a credit not only to Canada, but to the Empire. Its products are already found, not only in every corner of the Dominion, but are exported throughout the British Empire, to the Russian Empire and other European countries and to South America, giving a new outlet for Canadian labor and industry.
From the time the raw materials used in the manufacture of the International line of harvesting machines and other farm implements enter the chemical laboratories, where they are tested to make sure that they are of the highest possible grade, until the finishred machine is loaded on a train or steamer for transmission to some distant farm, everything that human skill and ingenuity can devise to prevent mistake and to insure a perfect product is employed.
The right sort of materials, carefully graded and selected, the right sort of workmanship, the most modern up-to-date machinery, the most rigid inspectionthese are the things which have given the International line the quality that makes them known with favor the world over.
Do you think such a reputation could have been built by poorly constructed machines
Most assuredly not
Most assuredly not.
We ask you as a careful buyer to consider these things and then to call upon the nearest International agent and look at the line he represents. He will be glad to give you catalogs, answer questions and go into details.
These machines are manufactured by

INTERNATIONAL HARYESTER GOMPANY OF CANADA, (Limited)

## DEERING and McCORMICK

Binders, Reapers, Mowers, Rakes, Tedders, Corn Binders, Huskers and Shredders, Gasoline Engines, Knife Grinders, Disc Harrows, Smoothing Harrows, Lever Harrows, Spring Tooth Harrows, Hoe Drills, Disc Drills, Cultivator and Seeder, Broad-cast Seeder, Scufflers, Binder Twine. Also selling agents for Chatham and Petrolia Wagons.

