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ol. XLIV.


## Corn That Will Grow Bey your seod coran on the cob, and avoid un-: cortainty. Hend selocted. Canadian-  <br> price list to: Ruthven, Essex Co., Ont J. O. Duke,

LONDON, ONTARIO, MARCH 18, 1909.

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an early maturer, and allarge yielder of fodder for | ensitage. Write for prices. |
| :--- |
| W. Boberrs, sparta, omt |



## HEELS UP-HEAD DOWN

There are some mighty funny things about common "bucket bowl" cream separators. One is that the bowls used in them actually run better when turned heavy end down-heels up, head down, as you might say.

Prove it? Why, we knew it ten years ago, and have been proving it by building Tubulars with bowls rung heavy end down ever sinice.
But we have just proved it again-this time in a very simple and practical way with a "hetel low milisoll. We took a common, disc filled "bucket bowl" machine-the sort with the bowl set heavy end un and fed through the top. The machine looked all right, but the bowl had the "shakes" so bad - that is, it trembled, leaned and strained against its bearings so hard-that we could not run it over 6,000 revolutions per minute, though it was supposed to run 8,000 in every day use.

You see, a separator bowl set heavy end u- is always top heavy, always leans sidewise, even though the eye can't detect it, and consequently alvays trembles in its bearings. These tremblings gradually increase until they wear the bearings, shake them loose, bend the spindle and create so much friction that it acts like a brake and prevents getting up speed. That was the trouble with this dise filled "bucket bowl" we are tllking about.

When we found this "bucket bowl" would not run in its own machine, we took it out, cut a thread on the bottom of the spindle, and hung it, heavy end down in a shanplee Tulular Cream Separator, just as we would a bowl of our own. You should have seen it run then. Wh troullo af all to run it 8,000 revolutions per minute. We easily ran it 12,000 .
Could you ask any better proof the she the
that common "bucket bowr" sepa-
rators, with bowls set heavy end ey and fed through the lop are built all wrong? Or better proof Toronto, Can.
that the suspended bowl and bottom feed used only in Sharples Machine is the right way to buited a separator?
The manufacture of TubuCream Separators is one of Canada's leading industries. Sales for 1008 way ries. Sales for 1908 way of any competitor if not of any competitor if not
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 makes the Dalry Tubular howl the Mightest and slmiploes! known, yot gives it twice the skimming power of commeen bowls. Also permits a low supply can that noed not he nifted eff to remove the hoult wholly enclosed, solit ollim? gears; a single firictiontes ball bearing, from which liangs the bowl; a crank set Just right for easy turming


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HAVE YOU SECURED ONE OF "THE FARMER'S ADYO
 <br> \section*{Buchanants <br> \section*{Buchanants <br> SWivel In-:} Campiep


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Boys for Farm Help phe manaserat


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MARCH 18, ${ }^{1909}$
THE FARMER'S ADVOCATE Established 36 years. Deposits secured by Assets of over Two
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ADVOCATE AND HOME MAGAZINE.

# The Farmer's Mdvocate 

 and Frome Nragazine
## EDITORIAL



I,ONDON, ONTARIO, MARCH 18, 1909
is an effiectual means of cleaning the land; is, in the whole, the best means of circumventing danage by insects, and is a means of securing mamum crops and liberal profits; white, in land will become more productive with passing years. Land not alapted to work in to be, in most cases, planted to alfalfa or permanent pasture.

Make the Bridges Large.
mong the many valuable features of the re ent convention of the hation, the constructiontion. The importance of It was evident, from the tenor of addresses given by those prominent in good-roads work in different parts of the Province, that, just as steel structures took the place of bridges made of wood, so will cement take the place of steel for bridges, and of wood for culverts.

No matter what material is used, however, the question of capacity remains paramount. It is not sufficient that a span be large enough to carry the waters oi a stream when it is swough and deep of heavy rain. It must be wide cnough and deep cnough to allow the swollen waters of a spring many instances, the curtailing of initial expense, by reducing the size, has, in the course of a very few seasons, resulted in increased cost to the municipality, because the flood, during the spring freshet, could not pass through, and the consequent blocking of ice and debris, by causing a washout, carried the structure from ls foundaCion. In other cases it may be that the current ever becomes sow saters culvert or bridge, but the damming of the waters ither side of the structure, entailing almost annual expenses for repairs.
In order to ascertain approximately what caWacity is required, those in charge of road construction in the various sections should be on the alert when floods prevail during the spring months, and make careful estimates of the volume of water that flows where new bridges will be a necessity within very few years. When ample allowance has been made for the largest freshet, it would be well to add ten or fifteen

Lost Time on the Roads.
There are, in every district where statute labor is still in sogue, maly who "road-work "duties means the loss of so much time. Few, however take into account the time that is lost on highways because of being in poor condtion.
those who are most interested in roads through out rural Camada would constaer that road re dition was an insurance against loss of time, per haps there would be less difliculty in arranging io: funds 10 mert verenges. Not only is it an insurance ugainst loss of time, but also the wear and tear on harmms and vehicles is reduced to a minimum A consideration of these facts, also, should realt in m.in satisfactory work, eve.
Most farmers, in buying or selling, are very hindiul the dollars andi cents. In general lines, or where horseflesh or implements can be given a longer lite or duration of usefulness, the economic
the Farmer's Advocate

and Home Magazine

the leading agricultural journal in thb DOMINION.
the william Weld company (Limited). john weld, manager.
homuts mok This Farmbr's. Advocate $\begin{gathered}\text { Winnipge, Man. }\end{gathered}$

- THB PARMER'S ADVocate and homb magazine

















appeared in our columns. Rejected matter will be returned on
ALL COMMUNICATIONS in reference to any matter monneted
Hiththis paper should be and resed as below, and not to any
tidividual connected with the paper. dividual connected with the paper.

THE WILHLAN WELD COMPATB
Lompor, Carana
$\xlongequal[\text { labor or the cost for the present or immediate }]{\text { Londom, Camada. }}$
future
Conaitions make it impossible for every locality to build stone roads, or even to put on a liberal
layer of gravel. I ack of funds and distance from source of supply stand in the way. But ther are few districts that cann the roads. Ordinary in the general condition of the roads. Ordinary repair, are not objectionable, except for a very allowance never has been graded to form a road bed proper, instead of a wide, flat tract, on which is mud for many months and a "black eye" to
the community. Thorough grading, followed by rolling and smoothing, and then a judicious us of the split-log drag, overcomes most of the diff
culty. Don't forget that time is mones, ath that mum the outlay for harness, horses and carwith road construction and repair, in the hands he a saving of money, a pleasure to those who travel
munity.

Metal surfacing an undrained road is like build ing a house on quichsand. If a municipality can do the draining first. There are thousands of dollars invested every year in gravelling and ap returns, both now and hervafter, if devotel th tile-draining

## There is still liunc io semure one ort int

 names fornames for
taining $y$
Which a selaction wavi lin nudn that will lins

## Canada's Wheat Future.

bound flie
rosperous-looking individual hare At the rate things are moving out ane selting sun), the with our wheat." Noticing that the thought seemed to trouble him not a little, a stranger unmistakably English, told him not to worr about such a contingency. "Why," said he the Old Country can take all your surplus for ears to come, and then you can help to feed hundred millions in the United States; ill, have a turn at the rest of the globe. , be all right; your land is cheap and kerte. ho ahead as quickly as you rike witn your. The erplexed igar-cese and ". Show me ". "Well," re lied the stranger, the Inited Kingdom now pro uces about 55 , 000 000 bushels per year-enough to keep her two and a half months make up he deficit in the national pantry, she had to buy ast year $210,000,000$. How much do you imagine Canada supplied? About $40,000,00 c$-one-fifth, end her the other four-fifths-send her the whole lot, all she wants. I guess that will keep you hustling (as you say) for a few years. By this tinue you will be using for home consumption nearly as much as you produce now. After Sam will be ready and caron for all he can get so cheer up, and, as here's my station, so long,

Addresses of Corpespondent.
reader complains that the post-offce ad The use of the counts. rather than the pos ffice address in printing communications is settled policy, adopted by "The Farmer's Adv "ate," and followed by some of the leading agri ultural journals of the United States, as well. deluged with an atermath sondence; another is to prevent the prostitu. tion of our editorial columns by veiled attempts to secure free advertising. liven when no such attempt is made, there are letters received in the writer's name
cases unayoidably have such incidental fient editorial pages ure not published for this purpose late thought The adortising columne son for the purpos. of facilitating busine-s exchange. If desires to buy something which some reader other may have. let him insert an advertisement. monts may te inserted at the comparatively low price of three cents a word, concerning farm
$\qquad$ be chourfully anoted for display adertisements For editorial and husiness reasons, therefore is useless to ash for them. When additional in ormation is "anted, semb the imquiries to us
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HORSES.
System in Horse-breeding Why are there so few high-class horses of any the Dominion? The question is easily answered wy saying, " Want of system in breeding. he farms of any section, and you will find wurn bred cattle at one farm, pure-bred sheep, at another, pure-bred swine at another, and, doubtlass, pure-bred poumry al found pure-brells of the diter ent classes of stock, except horses. The percent age of farmers who own even one horse that is registered, or elegible to registration, or even
one high-class animal of any of the recognized classes, not necessarily pure-bred, will be found to be very low. Why is tils? We answer that in the breeding of all classes but horses the farmcr has a system; ; he has un ideal up to which he
is endeavoring to breed.
He is endeavoring to improve his herd year by year, not only to keep each generation pure, but to improve the quality and indi iduality. He has discovered that it pays to be particular; that the better bred and
the better the individual, the more money it is worth in the market, whether it be sold for breed ing purposes or for food. But, in regard to horses, he has failed to appreciate these facts,
not that he is not sufficiently intelligent to appreciate them, but because he has not given them the necessary thought and consideration. He, Tke his forefathers, apparently regards the horse simply as. a means of producing power to perform
certuin kinds of labor. The other classes of stock are kept and bred with an idea of profit, but the horse simply as a mans of performing labor, in
order that food atc. may be produced which ordar that lood, etc., may be produced which
makes it possible to sustain the others. parently is unnindful of the fact that it costs little more to produce, and no more to keep. rood horse than an inferior one. We think that if from no other motive than appearance, it
would be profitable to pay more nttention to his
 quality of his cattec, sheep, swine, and probably
poultry, and will be pleased to show these and have them adinired; but, when asked about his horses, he will say, "Oh, I don't keep much in ne horse line; ; good horses are too expensive, "ork." of course, with the man who does not ireed horses, but who buys what he needs, wi Mre no reasonable fault to find. We may de
plore the fact that he has no tustes or ambitions in that line, but he is at least doing nothing di rectly to prevent imirovement in breeding. We for the horse, simply sees in him something that is useful for certain purposes, views him as the
does a machine, as somethint that is necessarl about a farm, but from some cause conceives the idea that he can be bred at a profit, and decides particular likink for ans kind of stock may with more or lewss surcess. hreed and reise maye
cinsses of stork. nut the mun who makes torse treeding proftalive wust be a horseman. Il means to nn ondt. There are so many ruore poins to to considered in a horse than in other
classpes of stock that it requires either special
adsplatilit. or speecial traininc or hoth to en mile a man to have an intelligent idea of what he Is entraworing to produce. For instance, in the Thre Masses, when we wet the desirable size, con-
iormation and quality demanded in an animal, we hawe all that can be produred, but in horsiss we
$\qquad$ Thass or breed they represent. Hence, we claim that onls he who really knows what the special t.1. A surcessful hreeder. horses, we say, "Be systemat ic." stick to t tpe, abandon the old idea
that a hors is simply a horse; that a mare that. With from old ase or from disease, is no longer f.wn dollirs or less, will produce just as good a Cleristics of his hireng wedigree, and the charWhoe enrvices a reasonath. fi.. is demanded.
lle will not here di cruss the most protitable thise or hreed of horses for the farmer to breed Th t question is frequently discussed. We will (iv) ,articular admiration for any class, but deWherd to commence breelling, he will be wise to
$\qquad$
$\qquad$
$\qquad$


elyariaing the dratt exactly

THE FARMER'S ADVOCATE
Eveners for Several-horse Hitch
The practice of reducing the wages for laborers
the farm, by using a greater number of horses in the farm, by using a greatcr nuany erese on farm machinery, has led to many devices for
three-, four-, five and six-horse hitches. Fron those that seem to give general satisfaction in practical use we have selected simple types. The prime object in each case must he to equalize the
labor for the various horses. With implements on which a tongue is necessary, special precauon which a tongue is necessary, special. In No. 5, A represents the furrow; B, plow head C, fivehorse evener; D a pulley; E a chain; F
neckyoke; $A$ the lead team's whimletrees;
firth thy neckyoke;
fifth horse's whiffletree : I a spring connecting
and H; J the back team set of whiffletrees and H; J the back team's set of whiffletrees
The usual length of C is 45 inches length gives the four horses 9 inches of C , and the The pulley D neds the evener.
stand the strain of the four horses,
passes through the pulley. It should bo whllowed to pass through a ring attached to the ring of the neckyoke.
The use of the spring, $I$, is to break the jerk
on the fifth horse when the plow strikes a stone
or root. ${ }^{\text {The }}$ whiffetrees of the hind team should be placed above the tandem chain. By placing them
above the chain the draft on the back team is not so low.
For six horses, No. 5 could be remodelled, hav-
ing two horses hitched to I instead of one, and ing two horses hitched to I instead of one, and
changing the lengths of the arm C to 30 and 15 changing the lengths of the arm
inches instead of 36 and 9 inches. The accompanying illustration, No. 6, is of similar construc-


tion. None of the horses are otliged to wath on tion. None of the
the plowed ground. The iron evener is upright.
with tandem rod clevisidi to the bottom end and with tandem rod clevisid
a doubletree on the bottom end and
the slightly curved, and both and holes exactly the same distance from the center hole. Many prefel this plan to working horses ahreast, as they do not crowd, and are cooler in warm weather, and
with six horses on, one can fasten a section of "ith six horses on, one can iasten sa section of rig can also be used for five horses, by putting at dive-foot evener on the plow and giving the third

## ㄷㄷ $\square^{\square}$

-Four-horse Eiencr, for use when horses

4.-Four-horse Evener, Tandem Hitch. The chain, which passes through a pulley

## LIVE STOCK.

Fat Steers from Deep Milkers.
The much-needed and welcome movement in the direction of improving (or perhaps we should say restoring) the milking capacily progress, and the pioneers of reform in this direction are already being besieged with applications for young bulls, not on large dairy furmers who a ers, but also irom large dairy lormers, who, at a registered bull, fearing to use it in case it
should . spoil the milk yield." These men, it should "spoil the milk sield." a pig in a poke," and are guided in their choice, and in the price fore them of the milking powers of the females on
noth sides in the bull's pedigree, und this evihoth sides in the bull's pedigree, und this evi-
dence can only be given by means of careful and long-kept records. The milk-book record has, therefore, become as important as the pedigree itseli, and, as recommendations for a dairy bull, they must stand or fall together. of heredity applied in practice; but, in order to test its full value, we must investiyate the breeding for at least three or four gen-
erations. For a buyer to be told thal a young erations. For a buyer to be told that a young
bull is from a cow annually yielding 1,000 gallons, is not enough-not nearly enough-to induce him to give a long price, because, if that be all, hereditary powers. To, insure this, he must have the milk records of the cow's dum and grandam, At present there are indeed few young bulls in any herd whose pedigree could bear such a test, beause the movement is so recent, and the regular "eighing of milk is an extremely modern prac-
tice. A breeder tells me that he has sold no lesa ace. A breeder tells me that he has sold no lese average of about E 40 each, specially as dairy
ires, and this is the strongest possible proof of the direction in which things are tending. With regard to milk records, we are now very much in
the same position as were the compilers of the lirst volume of the herdbook; that is, we are short of reliable materials. Recognizing their im
nense practical value, the pedigree dairy breedere will see to it that in an few years' time there will be nn enormous increase of milk records, and an eve to the increase of total annual yields. This policy is understood to be that of those breeders who are cultivating milhing herds, and is the
only one which can be expected to succeed. Few,
however however, except the students of heredity, are
likikely to realize what it involies.
Brceding exlusively for milk means an alteration of type, and a steady widening of the difierence of shape horr. Although w. have had a few eminent
prive cows as evillence telling against this stateprive cows as evidence telling against this stato
ment they have then only striking exceptions to mept they have heen only striking exceptions to with pach other. There s ems no sufficient reacon for fichting against this natural law, which why un should attempt to maintain in the Shorthorn the uniformity of type which naturally be-
gorse behind 4 feet of ewomer. and the 4 horses 1 wrepse of the breed ns ne whole, it seems to the

milkers，he must be prepared to surrender
beef type as it is understood in the show－yar
beef type as it is understood in the show－yard． Let us，however，glance at the dual－purpose
cow as she strikes the dairy farmer who is also a grazier，and wishes to turn out some good steers or sell his bull calves to others to rear and
feed．Although the exhibitor in the open classes at our shows can rarely win with a hears milker， it does not follow that the ordinary，British dairy farmer，in order to have 1，000－gaing light－fleshed cattle approaching the Channel－Island type．It us take a case in point which has just come th the writer＇s notice．I dealer bought twent
steer calves from Mr． R ．W．Hobss＇large herd bred from cows yielding an a verage of about 1，000 gallons yearly
er in the neighborhood，reared and fed by him and sold at the last Christmas markets wher
prizes are given．Altogether，these steers from beavy milkers won $£ 30$ in prizes，and were solk at an average of $£ 2415 \mathrm{~s}$ ．3d．each，being abou thirty－three months old．The highest price wa
£31，學d the lowest $£ 19$ 10s．To obtain such £31，
results requires much care and skill in breeding It may be easy enough where beef points are madd the chief consideration，but here we have a lot
of good farmers＇bullocks，bred from unmistak ably deep－milking，pedigree shorthorns，and what is done by one breeder can be
ISpero，in English I I ive－stock

The Flock in Spring
The care of the ewes und the youny lambs is an important part of the shepherd＇s work at this
season．He will not grudge a little loss of sleen or extra work，if necessary to save the lives and insure the thrift of the newcomers are cold，and the house not warm enough to pro lect them from frost or drafts，a little work in chutes overhead may improve the conditions con－ siderably．The careful shepherd will make it＂ rule to look over the ewe flock by lamplight b dicate a probable increase before morning， wait up and visit the fold at inturvals of hour or two to see that the new arrivals have received nourishment and get a iair start in hie． If the lambs come sut for any reason able come weak，assistance may be needed to get then started，and for this reason it is well to have on hand a few low，short hurdles which mav serve
to improvise pens in which to enclose the ewe and to improvise pens in which to enclose the ewe a
her lamb or lambs，in order that thes inay not b come separatei，and for convenience in attending them．Two of these hurdles，used in a cormer of the house，＂in which，in case the lamb is not sitrong they，may be contined for two or three dass，if
need be．In a case of unduly－delayed parturition． examination should
the presentation of the fuctus is normal，and if
 be made so，and then rasomatere time glven
fore using force，which at all times should bo ： gentle as possible，and in wnison＂ith the eflom： and oil should her usad on the hame．and a weat
 ateruse which is liathe to bem Fon bor this pmen the the solmton is lomp pured ill if，in little or no signs of life，it mats li．．rewived bly lungs．It is not well to induce the newbe
lamb）to take large supplies of nourislument：litt cung．or have twins，or if for ams cause the． another＂we that has milk to ssare．atoll let the


thousands of dollars are lost to canadian farmer grade ram lambs at the proper the ankel in the lall are a nuisance，and can only be sold at＂＂
price far below that for wether or cure lambs． Cores on the teats of ewes and on the lips and Gums of lambs are in some seasons troublesome．
As soon as the ewe is noticed objecting to allow As soon as the ewe is noticed objecting to allow
her own lamb to suck，both the teats of ewe and the mouth of the lamb should be examined， and，if found to be sore，treated with a suitable otion or dressing．For aptha，a fungous growt
on the lips and gums of the lamb，use a mixture on the lips and gums of the lamb，use a mixture drops of carbolic acid，or a little powdered borax， added，may improve the dressing．And to the
sore teats apply equal parts of olive oil or sweet sore teats apply equal parts of olve on or sweet
oil und glycerine，after the ewe has been held for the lamb to suck．If soreness between the claws of the hoof of either ewes or lambs occurs，a powdered bluestone dusted on the sores will in
most cases effect a cure．The same specific is
net Lenerally effective in a case of navel ill，or leak－ ing at the navel of the lamb，which should be
checked as soon as noticed．Sickness of the checked as soon as noticed．Sichness of the
lamb is sometimes caused by the dung adhering to the wool and blocking the passage．This should be cleared away，and a little grease or oil applied．A separate place shour be provided for feeding the lambs when they are two or three
weeks old．openings being left through which the
lambs may go and the ewe cannot．Fresh sup－ plies of clover hay，oats and bran，and sliced roots，given dailv，will cause the youngsters to
grow ranidly．while the demand on the mothers
vill h．

## THE FARM．

## Growing Mangels

their ferming valde，as compakfil
$\qquad$ as 1.1 to 1.0 in favor of mangels．This would seem that show that the mangel was rather better experience， 1 must vote in favor of the mangel in every case．Changing from turnips to mangels， my cows invariably increase in milh flow，while a milk，other milk，other conthtions belng equal．I．ed to fat than when turnips are fed．While my hogs will eat and thrive on mangels fed whole，as the main part of their ration，they will not touch turnips The feeding value of mangels is considerably aheat the teeding value of mangels is considerably ahead say that，as iar as I am concerned，I would pre
$\qquad$
$\qquad$年o bushelse oi turnips than one bushel of man


$\qquad$
$\qquad$
$\qquad$ It seems to be a dillicult matter to gue kood poon wo well ripened，and hence its germmating that considerable moist ure seems to be nim
to get a germination．As a general thin ne doesn＇t raise his own seed from selectent it is better to buy those done up in sealed pack ages，rather than ouy in bulk．There is more probability of getimg seed with greater vitality soak the seed for at least twenty－four hours in warm water，then spread out for an hour or two an inch since a dry spell oi weather followint plant ing may retard germination．In most cases th hind wheel of the seed drill will firm the eart sufficiently about the seed．I use from
$\qquad$
After two＂eeks，the cultivator，is ru kill weeds，and conserve moisture．This cultivy
tion is followed up every two weeks，or oftener． during the growing season．
I cannot do with less than hand－hoeings he first time，when the plants are about one to cutting the weeds and loosening the earth clos up to the line of plants，and，in going down the
other side， 1 also cut out between，leaving litule bunches of plants about eight inches apart in the
row．In about two weeks from this the plants are large enough to thin out to one in a place
I prefer to leave the bunch of two or three unti the second time，since the pulling gives another loosening of the soil close around the young plant
which it would not get if they were thinned the which it would not if this second hocing is done thor
first time．In
oughly，there will be no more need of the hand－ hoe，unless the land is vers weedy．This，with
frequent cultivation during the growing season should give a good crop of mankels． will say the No doubt many of your readers will say they
can grow good cross of mangels without all this bother，nnd，no doubt，in the case ofly without much care；but I feel safe in saying that，in the nine cases out of ten the createst care is neces sary to make a success of crowing these roots． I have tried several diferent hinds，but I con－
vider the selfected long reds give the best results I am persuaded that we cannot take any of cretting our turnips out．As I gencrally feed the rows at a time and thogs，i gemerally together in heaps This leaves tops and mancels in heaps whence they can be readily thrown into the cari World＇s Grain Production of 1908 The Hungarian Asricultural Ministry has is
und Irom Buda－pesth an octavo pamphlet of 108 wese．on the world＇s arain production of 1908 Omprising wheat，Row darles，Wats and corn．The ata these cereal


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# THE FARMER'S ADVOCATE 

MABCH 14. 1909

Corn versus Roots.
Editur the monthly meeting of the 13runt Township Tarmers' Club held at the home of Walter Rowand, on the evening of March 2nd, the atteni per of non-members. The educational feature of the evening was at
tebate on the following subiect: Resolved ebate on the following subject: Resolved, that
is more profitable to grow roots alone than orn alone. The question is a live one in this ocality, and much interesting matter was gathered both sides.
points on the affirmative sidy
The expense for raising and properly curing corn is greater than that of roots.
2. Roots can be fed to all stock. while corn has not that advantage.
3. In value, roots proctuch more per acre than corn. The watery part of roots help to extract
4. the nutriment from other fodders ${ }_{5}$. Potatoes a good thing for pulling through crippled pigs.
6 . Different roots haw difterent seasons for seeding, so we can tee surer of a crop If mangels
fail plant turnips, and if they fail plant Greystone. 7. Corn has a hathit of suddenly disappearing
ty reason of the crow. while mangels when once -irrouted ure there. Mangels and turnips stand more frost than corn seed than poor mangel seed. corn, but not
10 . A farmer can do without very well without roots.
11 . Certain roots have many other uses be
ron sides food. Turnips
Carrots for butter color Carrots for butter color.
12 . The varieties in roots allow a change ir 13. l'otatoes are the stalf of life for the human 14. Turnips will go a great way in supplying water to stork when that commodity is scarce.
15 . Cornstalks oir stuls in a field cause considerable trouble in working up the soil. on corn 17. Our imported stock (from Scotland) is
raised on rools and not on corn. 18. Counties in Ontario adaptable for roots. raise less stock than those adaptate cleaning o weeds than corn. r. Turnips are $90.5 \%$ water. To devote whole year's work for the production of $9 \%$
matter seems rather a waste of time. Water cheap. Roots require more manure than corn. 3. Roots require more labor in preparing th 4. Analysis of corn shows that it contains les water and more nutriment than rots. roots. Potntoes ure objected to for making cheese
6. $x$ The number of siloes going up every year
 hiftle of til sear me yeur, and call it then "1. Roos are subiget io ingect pest wher

 Nil


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$\qquad$
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King System of Ventilation
$\qquad$ 1. We have been thinking of putting in the king
stem of ventilation in a barn next summer, but we have been told that the out-takes will fill up with frost, and then, in a mild time, they will 1s such the case a
2 Would two out-takes, 2 feet each way, be bout the right
?. How many and how would you put in the intukes when building a stone wall

How would you build the out-takes?
Would a ventiiator, such as some of the rooting
barn? Arether or hat where arson cous in erount Are there any barns using the King system around Ciuelph or Galt, where a person could in spect same? wint is no more dancer system of ventilitr up with frost and dripping during mild weather than ther is with any other form of outlet. The shafts which are used for carrying, off foul air should be matser or two thicknesses of lumber, with tarred ing a shaft which is a good non-conductor o heat, and preventing the warm air inside the shaft from becoming chilled. If this is done, outlets, each two feet square, should be sufficient for a barn the size mentioned. Possibly, smaller
ones might do, but it is well to be on the safe

description of the system
ivor, Prelph. King' book bertations ay be obtained through this office for 75 cents, or as a premium for obtaining one new sub-

A Vote for the Negative.
ditor "The Farmer's Advocate ": 4. Versus Mixed Farming, and your comments hereon, with a good cal of interest, and must ay I find it a great deal easier to criticise the I rather incline to think that the negatives came out ahead, but that is not saying that I agreer with them. In the tirst place, I cannot accept.
the definition of mixed farming. As there defined it is precisely the same as in No. 2 on negative side is called specialized farming. The environment is different, that is all: both are grainrowers, pure and simple. Mixed farming, as also in many, if not all, parts of Ontario to-day, ineans raising for sac catc, phecp. hos, pouy or may not include grain. As any one of these may not include grain. As any one or and
ines is specially developed, and others partially or entirely dropped, so is the tendency to specializing. I cannot nccept a grain-grower as a
: specialist" -he is a primitive farmer. Negative " specialist "-he is a primitive farmer. Negative
criticism of point No. 1 is well taken. The only reason I can see why farmers do not farm as their
any longer. It is not that the aver-
age farmer wishes
to change h is methods; he is exceedingly loath to do so, as witness the exodus to
the West, where the West, where
primitive methods are still in vogue,
and more or less and more or less
successful. won't do for the farmer. While it is wise, no doubt, to specialize more
or less, he must or less, he must
keep up on all
lines; very few lines; very few
can be
centirely.
dropped
We hear entirely. We hear
more, of "special-
ists. more, in medicine nd surgery than in any other proession, but of one
ever hard of not also
vho was not who was not also and expert general and expert general
practitioner? It practisioner impos-
is just as imple
sible for a farmer to devote all his tion to one single
line; and be successful as be sucbe for a doctor
to devote himself
one organ oi the
rde. The imbets for irmeth en merded to be put on cach side of the building. bodls, "rithout paying ans nd about twelve feet apart. These could be the condition ef farmer is the cmployer, not the square. The outside opening should be at least amploye., 7. 4. - While the farm mas ber a fuctory hrece feet lower than the inside opening it is a in a sense, it is a factory with a difference. These wall than it would be in another hind of building, points hardly apply to farm products. and one the simplest methods all, near the ired on one grain for any length of time, the reimply phace shafts through twe war hifteen feet. Sults would soon be the reverse of those stated op, the outside, a prson could then cover the The fact is there is a limit to the possibictics A Outer and with another shaft running down the profitable specialization between one line and wall for a distance. This would prevent and and other, or cost of production will be increased we fresh air would find its way up through the 1 cannot agree with the negative cricy has a nuter shaft and in through the opening at the point No. 11 . The docation with the carning power, but it top of the wall. some ventilators devised
ronfing companies work very well. The dairy stable at the college is ventilated cral average of valuc. On the whole, the nega-
tive points are well taken, and 1 believe they The dairy stable king system, or sonething very tive points are well taken, though my sympa-
 Chould have been provited The inlets should have some sort of shuter on the instice, so able be

## THE FARMER'S ADVOCATE

## Varieties of Crops and Methods of Cropping.


used. Eighteen to 24 ft . lever harrows in. (one
flexible rollers; gang plows, 12 and 14 in.
might travel here all day and not see a walking
plow), one- and tworow cultivators. There is
nothing seen on farms here but three- and fournothing seen on farms here but three- and four-
horse teams. All the machinery has a seat on horse teams. All the machinery has a seat on
for the poor hired man. I have been a reader of "The Farmer's Advocate," and along with the
Breeders' (Gazette, they are the best team in Breeders' ('gazette, they are the best team in
America. This farm could not git along very

$\qquad$ understand our methods one should opened up only
large part of the county has been op er during the last 'three or four decades, and the set-
thees are lumbermen as well as farmers. A contiers are lumbermen as well as farmers. A con-
siderable proportion, and in many cases the greater part, of their income is derived from lumber-
ing. (Brass is the chief crop, and comprises, perhaps, three-fourths of the cultivated land. Oat.
is about one-half of the grain crop. The other crops are barley, potatoes, roots, etc. Occasion ally one sees a field of corn grown for silage. A great part of the land is clay loam, but there are
also large districts of sandy land. Barley is preferred as a nurse crop, hut oats and wheat are also used. About one-half of the total grain
crop is seeded each year to common red and alsike crop is seeded each year to common red and alike
clovers and timothy. The quantity of timothy in many cases is larger than that of clover, and in a few cases no clover at all is sown. Soiling
crops and alfalfa are not grown to any apprecicrops and alfalfa are not grown to any appreci-
able extent. able extent. When land is turned to past years
is generally sown to timothy, but in a few year is generally sown to timothy, but in a few years
the natural grasses find an opportunity to grow and greatly improve the value of the pasture. There is no regular rotation of crops, except in
isolated cases. When land is seeded to grass it isolated cases. When land is seeded to grass it
is allowed to grow as many crops as it will produce. When the annual hay crop becomes very light on a piece of land a coat of manure is spread
on to stimulate further growth. It is not uncommon for land to grow eight or ten crops of hay in succession. The first crop grown when a piece of land is broken from grass is either oat
roots, potatoes or corn. The second year it
年
$\qquad$ grass. The only cultivating implements in gen-
eras use are plows and harrows. The harrows most generally used are either the disk or spring-
tooth. These are adapted to either two or three horses. Farm help is very scarce. For the
last four or five years good men expect $\$ 3000$ per month for the summer season, and from $\$ 45$
$\qquad$ ROBT. NESS, CHATEAGUAY CO,., P(Q.-We
have entirely changed our system of cultivation,
sowing less and putting it in better shape. The sowing less and putting it in better shape. The
a verage farmer here, with, say, 150 or 200 acres, sows about 50 acres in all yearly. Most of then
ship milk to the cities, and require lots of silage to keep up the winter supply. In that case they
sow from 20 to 25 acres of corn, the balance in sow from 20 to 25 acres of corn, the balance in
oats, and a few acres in potatoes, carrots and mangers. We here sow the Banner oat, which
sims to do very well: about 2 bushels, of 40 lbs . per bushel, to the arpent, which is rather different
form what prevails in Ontario. You have the
Fnulich nate and the small bushel of 34 lh s and English acre, and the small bushel of 34 lbs, and
require more bushels. In preparing the land for
corn we tor corn we top-dress on the pasture, hauling the
manure from the stables direct, and spreading early, before any vegetation takes place, then
plowing in the fall; keeping it well drained. About May 20 th we cultivate well with double disk hat-
rows, making a fine seedbed, and sow with the drin l seeder three feet apart. As soon as the firs
weeds appear we begin to cultivate with double and single cultivators, and continue right on un-
til the corn is too high to pass between the rows. til the corn is too high to pass between the rows.
The seed we. use is the White Pearl, Red Cob and
Lem en man bushel
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$\qquad$
varying sizes are devoted to roots. Following are the varieties and quantities sown for the comb
mon farm crops: Oats-Waverly, Storm King and Legion, sowing about 2 bush. 1 pk. per acre, on
soil that has had about two crops taken off (one bring wheat and one barley) since manuring. Barley-Mandscheuri, sowing about 2 bushels per Wheat-White Russian and Red Fife, sowing 1 bushel 2 bks. per acre, on rich soil well worked.
Red Fife has not been a success. Peas-Mummy sowing about 2 bushels per acre, on moorish ground. ${ }^{15}$ peas help to build up the land.
Very few peas sown in this locality, as the weevil Very few peas sown in this locality, as the weevil
has destroyed them of late years.
BuckwheatSilverhull, sowing about 3 pis. per acre, on dirty ground, as buckwheat smothers the weeds. Rape
Dwarf Essex, sowing about 4 lbs. per acre on good ground, well summer-fallowed, till about July 12th. This crop, if put in in good shape, perience Roots-11alf-sugar Mangel, on account of their good-keeping qualities and being easily
harvested; also prefer manuring in fall if possible Turnips -The old Purple-top Swedes are about a. the ground well, and do not sow until about June 21st. Potatoes-Elephant and Empire State for crops do well if properly cultivated and kept Both from bugs. Corn -Not grown to any extent. No sloes in this district, but 1 think they would be Red, Mammoth and Alsike clover; sowing from o. 8 lbs. per acre of alsike and 10 to 12 of the others. Timothy sown half and half with red
 ley are used, spring wheat being preferred by many. Alfalfa is not grown in these parts. It
seems to be hard to pasture land is rough ground or wet fields. In much as possible done in the fall. The next yea following the roots spring wheat is sown, seeding to clover and timothy. If no catch, then barley some people in this section sow barley after roots with good results, and then sow the sam mure if possible. The top-dressing is applied wit are bringing in larger implements than were used Hew years ago However, the styles and sizes
vary on the different farms. Most of the grain is drilled in. The sizes of the common imple-
mints are : 13 -hoed seed irs, 15 -tull harrow 7 -foot cut binder, 12 -foot rake. Three-horse teams ar used on nearly every farm No four-horse team are used yet, but I think it will not be long be
fore some will adopt this means of keeping down lore some will
labor expenses.
I) A mCnaughton wellingTon Co showing of mixed grain, Lincoln, In oats we have Sensation, Irish White "ell. We sow 2 bushels per acre. In barley,
Mandscheuri, with $1 \frac{1}{2}$ bushels per acre, yields splendidly. Peas have been a partial failure on is the Kansas green-bug. They will be sown con siderably again this spring. In grass seed, we
consider 4 or 5 lbs. of clover and 3 of timothy to give as good results as a heavier seeding. We
sow on fall wheat, harley and oats, wheat and barley preferred, and seed 30 to 40 per cent. of
crop. Alfalfa is growing in favor, and does well on our limestone soil. A farr-vear rotation is
generally followed. In cultivating machinery we have spring-tooth cultivator and disk harrows. prefer the shovel-point stiff-tooth cultivator. on account of the stony condition of the soil and machinery are growing in favor. The disk drill,
mater introduced last year in this vicinity, is doing good
mixed grain, a bushel and a half of oats, with
$a$ bushel of barley, with $a$ few peas, is gendersow oats first, as soon as the ground gets dry

$\qquad$
I. B. CMbertand co.. N. S.- Probably

MABCH 18, 1909
THE FARMER'S ADVOCATE
grown to speak of. Potatoes are largely grown, No. 1. American. Turnips are grown to quite an principal. Quantities are used for feed for cattle. Beets, carrots and parsnips rank next, but are raised only to a small extent, as light sandy loam Lands along the river are self-sustaining. Marsh mud used to be much used as fertilizer. It has now mostly given way as the usully sow Timothy is the preva of timothy, mixed with five pounds of clover to the acre. The kinds of clover are Late Red and Alsike. For feed we like a mixture of equal parts of wheat, tarley an crop is About eighty per cent. of crops are not sown to
sceded annually. Soiling crops scedeatent; neither are permanent pastures. I tried
any extent
alfalfa for the first last year, and will report later as to its success. Rotation crops are manured, except on alluvial and marsh lands, which do not need it. Two-horse plows, harrows
and sead drills are used. Even on the potatodigger but two horses are generally employed
Three- and four-horse teams are not seen very

DAVID PETHERAM, NORFOLK CO., ONT, Our crops with quantities sown are:
Dawson's Golden Chaff, 2 bushels per acre; barley, Mandscheuri, 1 t to 2 bushels per acre; oats, silage, $1 \frac{1}{2}$ pecks per acre; mangels, Long ked,
lbs. to the acre. There are large areas of mixed grains grown here. Barkes, a good mixture for peasing purposes. Red clover is sown about ten pounds to the acre, and about five or six pound
of timothy mixed with it gives good results. Bar of timothy mixed with it gives good results. Aar faifa is most generally sown with barley. Twenty
pounde alfalfa and one bushel of barley to the acre pounds alfalfa and one bushel of harley to the acre I find to give the best resuts. t of crop seeded
would be about 75 per cent. of the annually in this section. There is quite a lot of
and
alfalfa grown here, and a great deal more going alfalfa grown here, and a great deal more going
to be sown this spring. It seems to do very to be sown this spoil is clay loam. Some have had poor luck getting it through the first winter, but once you get a good stand you have something
that will give an abundance of good green feed, are no permanent pastures sown. As a rule
clover sod is plowed down for wheat or barley If for wheat, a light top dressing of manure eriven, if sut in with wheat next, with a good coa of manure. A great deal of the wheat and oa stubble is plowed in the fall for corn, with the heavy cost of manure. $\begin{aligned} & \text { following spring. Many of the farmers around }\end{aligned}$ here use the lance-tooth harrow, three and four sections, for three horses; and a great number use the spring-tooth cultivator, the largest in tough land. We also have the disk harrow, which is a splendid implement for cutting up sod of long standing. Those who are retting the larger sizes, and it makes a great saving of time. The seeding machinery is all built on a larger scale; a great many of the dink a great
are coming into use, and I think the a hoe drill
> J. D. HAIGHT, PRINCE EDWARD CO., ONT.
The crops most commonly grown here are peas
Very little land is and other canning products. Very little land is given to grass, and not very much ornand others corn for silage. In many sections farming is not done according to system. Mostly two-horse seed drils, cultivators, gang and sulky plows are used. acre. Peas run $1 \frac{1}{2}$ to 3 bushels per
bushels; barley, $1 \frac{1}{2}$ to 2 bushels; fall wheat, $1 \frac{1}{2}$ bushels. (irass and clover seeds are sown wix
all kinds of grain, except buckwheat.
The mix ture of red clover and timothy ranges from to in
15 pounds per acre. Alsike is sown 8 to
pounds per acre.

$$
\begin{aligned}
& \text { is. STAVERT, PRINCE CO. P. E. I - By } \\
& \text { ihe most important and valuable crop grown }
\end{aligned}
$$ Tu. The most important and valuable croply sown Ming Banner,

Improved Ligowo, about
himdance.
Generally speaking, about
$2 \frac{1}{3}$
to Is per acre are sown by drill, and most to
is hroadcast. The spring whats most Russian, Colorado Bearded and Preston hels per acre is not extensively grown.
Barley is the best
eli.: Odessa and Mandshruri are the ber


Golden Vine and Crown are prominent varieties of
peas. A very small acreage is given to buckpeas. A very small acreage is given to buck-
wheat, but it makes good hen feed, and is own
at about bushel per acre. Mixtures of oats and barley, also oats, barley and peas, are gaining in popularity on account of greater returns to
the acre. A good proportion for the former is ${ }_{2 \frac{2}{2}}$ bushels oats and $1 \frac{1}{2}$ bushels barley, and for the $\frac{1}{2}$ latter $1 \frac{1}{2}$ bushels oats, $\frac{1}{2}$ barley and $\frac{1}{2}$ peas. Turnips and potatoes, with few mangels and carrots,
are cultivated in these parts. Of turnips, are cultivated in these parts. of turnips,
Hazard's Improved is perhaps the best. McIntyre is the most reliable potato. Green Mountain, Late and Early Hebron, Early Rose and Burpee's turnips are grown on Prince Edward Island. Corn is a partial failure here, on account of climatic conditions; however, a little is planted by most
farmers for fall feeding. Longfollow is the kind farmers for fall feeding. Longfellow is the kind
mostly used. Red clover, alsike and imothy are sown for hay and pasture in this region. Five pounds Mammoth Red, one or two of alsike, and about ten of timothy is sown on manured stubble wheat for nurse crop. Some good farmers sow only two or three pounds of clover to the acre,
and say if it lives it will grow thick enough, and if it dies so much is saved. About $50 \%$ of our
grain crop is seeded down. Alfalfa is not sown grain crop is seeded down. Alfalfa is not sown
at all in this locality. It has been tried on the Island, but with poor success. Perhaps our win-
ters are too severe. Permanent pastures are not used at all. Our land is all successfully rotated by crops. There are two rotations generally fol-
lowed: (1) 1st year. roots, land manured; 2nd vear, grain, land seeded; 3rd year, hay; 4th year,
hay; 5th year, pasture; 6th year, pasture. (2) 1st year, grain; 2nd year, roots, land manured; 3 rd year, grain, land seeded; 4th year, hay; 5th and 6 th year, pasture. of cultivating and seeding implements, first and most important is the horses; occasionally one sees four horses hitched. Next comes the disk harrow, with two horses,
then the iron or spring-tooth cultivator, used for then the iron or spring-tooth cultivator, used for
working out couch grass. The roller is being more used now for making a good solid seed-bed, but a field should be gone over by a light harrow after being rolled, in order to stand the wind and dry
weather. Broadcast seeders are generally used, but disk drills are being introduced, and where

## Permanent Pasture Mixture

Wilson, has remarked that one of the great short comings of American agriculture is the lack of good pastures, the rich, thick, velvety grazing known in the United States and Canada. The two kinds of seed commonly used in America ar ed as a permanent pasture mixture, the clove
being of short duration, and the timothy, thoug a good hay grass, being ill adapted to stand
grazing and produce a satisfactory summer grazing and produce a sastures are laid down
growth The Old Country pastur with a great variety of grasses and clovers espe cially suited for grazing, and with such treatmen
as they receive will produce luxuriantly for cenClimate may have something to do with their success, but there is no doubt that by sowing a
sufficient variety of suitable pasture grasses and clovers, good pastures could be produced and
maintained under Canadian conditions, especially maintained under Canadian conditions, especially
with the aid of an occasional dressing of manure applied with retention of arable land in permanent pasture
under all conditions, and the working of the rest in rotation without ever pasturing at all. For stantially all the tillable land worked under a system of short rotation, producing its quota of
pature in turn. But there is a great deal of
rouch land in some localities, which should not be plowed more than once or twice in a lifewith great advantage, be seeded to alfalla, while the worst areas, particularly if watered, should
be laid down in permanent pasture. Again, on some level farms there is one field near the build
ings. with a stream running through it, that milking cows in over night; or perhaps there is
a field at the rear end of the farm, so fur distant as to entail unprofitable loss of time in hauling manure and crops to and fro. such a fied, if may, with much advantage, he seeded down perit may still be advantageous to convert such a great economy in letting stock harvest and ma-
nure the crops in broken or distant fields. great econe crops in broken or distant fields.
nure the
What to sow to produce a permanent pasture
is a moot question that arises. Obviously in
seeding down a field expected to remain long in meadow it is unwise to be parsimonious with seed. In England mixtures are sown comprising
a wide variety of seeds, as high as thirty-five or forty pounds to the acre being used. For Canawe can recommend in our present state of knowl edge is that grown by Prof. C. A. Zavitz on the orchard grass, 4 lbs .; meadow fescue, 4 lbs.; tall oat grass, 3 lbs.; timothy, 2 lbs.; meadow foxtail, 2 lbs., alfalfa, 5 lbs.: alsike clover, 2 lbs.; white
or Dutch clover 2 lbs. This mixture at Guelph has produced in 10 vears at the rate of an aver age of 5.09 tons of cured hay per acre. For well-
drainad soil, and particularly hillsides, this mixdrainsd soil, and particularly hillsides, this mix
ture might be improved by reducing the amount of grass seed two or three pounds and substituting that much additional alfalfa. Of course, local ture, and for low lands, especially, one containing a good deal of red-top and Kentucky blue grass, would probably be advisable, such as 8 lbs . redand 3 lbs. alsike per acre. Supplemented, perhaps, by small quantities of the other varieties named above. Do not buy the seeds ready mixed. Pur-
chase them Sow on rich, clean, well-drained land, either alone or with a very light nurse crop of spring wheat

## Grass and Clover Seeding.

In the system of mixed husbandry practiced in Eastern Canada, substantially all the cereal acreonly to be plowed up, without taking off a crop of hay, the saving in fertility and increase of ing. In the majority of cases, however, particularly in the corn sections, matters could be so arranged as to permit of leaving the seeding for one or two crops of hay, then breaking for corn, seeded down. This system will enrich a farm amazingly in ten years, providing stock is kept, and the manure carefully saved and applied. We hany farms in at least three Provinces.
Under such a system, clovers should consti-
ute the major proportion of the seeding mixure, timothy being added chiefly as a precaution, o that, in case the clover should fail, there will interrupted. Clover adds nitrogen to the farm, particularly when the hay is fed at home; its roots are first-class subsoilers; its growth and decomposition enrich and mellow the soil, and
well-cured clover hay is the best kind of fodder we have, next to alfalfa. A clover sod is easily put into first-class condition for corn, potatoes, or even turnips, whereas a tough grass sod is not to clover sod for the other crops mentioned. Of course, farm practice varies in different localities, and one must not expect to revolutionize Cana dian agriculture in a day. Neighbornoods we are convinced that, for almost any progressive armer, from Ontario to Nova Scotia, who is willing to adopt a modern short rotation, the
best plan is to sow much clover and little best plan
timothy.
It is unwise to be sparing with clover seed. tributed, and all of it would grow, three or four good seeding all grow. Much falls on dry, hard ground. Some never germinates; other seeds sprout and die.
Hence, we must sow ample quantities to make allowance. On the hard, dry spots, it is well to scatter extra seed. Many a field has been plowed not worth leaving. whereas, had double the quantity of seed been sown, enough plants would have secome established to make a fair sward. Bare afford a splendid chance for weed seeds to obtain seeding liberally with good seed, sown under the hest conditions possible.

$$
\begin{aligned}
& \text { best conditions possible. } \\
& \text { A widelye farored mixture is } 6 \text { to } 8 \text { pounds red } \\
& \text { clover, } 1 \frac{1}{3} \text { to } 2 \text { pounds alsike, and } 4 \text { pounds tim- }
\end{aligned}
$$

$$
\begin{aligned}
& \text { clover, } 1 \frac{1}{2} \text { to } 2 \text { pounds alsike, and } 4 \text { pounds tim } \\
& \text { II the clover " catches" reason } \\
& \text { othy, per acre. }
\end{aligned}
$$ ably well, the first year's cutting will be nearly evidence. The second year's crop will generally contain more timothy than clover. The alsike insures a the stand, adds variety to the hay, and may fail or die out. On level-clay or not-too

well-drained lands, alsike is particularly valuable well-drained lands, alsike is particularly valuable.
Where pasture is wanted in the second year, it is
$\qquad$
With sprine grain. the clover and timothy

> 2xat and
in front of the grain hoes, shoes or disks, as the case may be. on fall wheat or rye the timothy
will usually have been sown in the fall, and the will usually have been sown
clover may be sown by hand on a still morning, clover may be sown batent clover seeders on the
or with one of the pate market. Opinion differs as to when is the best
time to sow clover on fall wheat. The common time to sow clover on fall wheat.
practice is to sow it in late March or early April, practice is to sow it in iate March or eary
on some wind-stlll morning, when the ground is covered with a light snow or honeycombed with frost, thus affording crevices into which the seeds
dro,
Ond become subsequently covered. drop, and become subsequenter of them reported
contend-and in 1906 a number very favorable experience, extending over fifteen years or so-that it is best to wait until late
april or early Mav, when growth is starting, and April or early May, when growt is starms cases then sow the seed and harow This, although
following with the roller. seems like destroying the whent, really appears to benefit that crop, and the cfiect on the clover
seediny is declared to be nitogether feverable. seding is deccared have on timothy seeded the previous fall, is an unsetleded question. Probably, where this svstem of clover seding is adopted,
it might be better to defer the timothy seeding it might be bette
until spring, also.

Dates and Order of Sowing Grains. Probably ninety-nine farmers out of a hundred,
asked the best order of seeding for spring grain, would say, spring wheat, oats, barley,
peans. "/The Farmer's Advocate, would not peas. "The Farmer's Advocate "would not
undertake to pronounce this order wrong. It is the sequence the editors have observed in their own practice. It is noteworthy, however, that experiments conducted at the Ontario Agricultural College, Guelph, point to a sighty anterent order. viz.. spring wheat, in that the barley prey
the dififorence consist ing in ted in cedes the oots. An experiment was conducted in
chenticate in each of five vears, by sowing spring duplicate in each of five years, by sowing spring
wheat, barley, oats and peas, on each of six wheat, barley, oats and peas, on each or six
different dates in the spring. The first seeding different dates in the spring. wher enough and
took place when land was armand
One dry enough to work to good advantage
week was allowed between each two seedings, so week was altowed
far as weather permitted. The average date of the frrst seeding was April 18th, and of the last
the
The average results for the seeding May 23 ed. The average results for the
five years, in per cent. of rust, weight per measfive years, in per cent. of rust, weight per meas-
ureed bushel, and in vields of straw and grain per ured bushel, and in the four classes of grain, and or each of the six difirerent dates of seeding of each kind
here kive


The revuls show that the greatest average sirld
 and
 "ge of rust in the "wult ing srop was gradually


 Nint or on win Nut



[^0]THE FARMER'S ADVOCATE.

Treatment for Grain Smuts Fess smutty seed a smutty crop resuts-un gicide that will destroy the spores. As much of our seed oats and wheat is to a greater or less
extent infected. treatment is called for in al great many cases. Three different lines of Hot ment have cecen formalin. The last is the best; and, of the two ways of applying. vize sprinkling and immersion, the former is usually preferred. Spread the seed grain out on the barn loor and sprimke formalin (a pound is not quite as much as a pint) in thirty-two to
five gallons of water, using the stronger solution if the grain is badly infected. Shovel over a few times, applying the solution as the turning pro ceeds. When all is well dampened, shover with old
grain into a conical heap and cover wion hlankets for two or three hours; then remove the occasionally. It is better to mix each time just enough to treat the grain thal can le sown with
in three days. After treatment. keep) the seed in three days. Kiter treatment hins or sacks in which smutty seed has been contained.
A pound of formalin (which is simply a 40 per cent. liquid solution of the gas formaldehyde
costs about 75 cents, and may be had at any drug store. This quantity will suffice for Be careful not to use the culution stronger than advised or th
injuriously afiected.

Alfalfa Seeding.
alfalis methods may be adopten for sendin nurse crop: in spring or in midsummer At of barley per acre is, perhaps, to be advised. see ing that it will not seriously interfere with th Service in keeping down weeds, and will vield fair return in grain; whereas, otherwise. on fair return in grain; whereas, otherwise one
would usually realize no harvest from the field
for every day's delay in the seeding, after the seeds. The manure should have been applied to sed ane many advocate loany
theil ans the best for alfalfa. Soil as the besty well-drained field will serve, the lest land for ulfalta is a hard, clay hillside, so iony as it is not springy, draina demands ire ice about the crown it fatal to it. Hillsides are ice ablly well drained. Other reasons why such soil is best are that cluy land contains abundance of the mineral elemens it can draw from the at
falfa craves; nitrogen mosphere, hy means of the hacteria in the nodules on its roots. Finally, on hard, clay hillsides, it stands the winter best, and is less likely to be will retain a good foothold on clay hillsides for twenty yars or more. Many a time we have
sen it sown on rolling land, and a good catch Son it sown on rolling land, and a good catch obtained, the growth being especially luxurian
the first season on the loamy knoll tops, but i a few years' time there would be little but grass on the knolls, whilst on the clay slopes the al ralfa held the ground, improving with years. I
is usually more difficult to get a catch on hard lav, but, once established, it generally remains Before seeding with alfalia, make sure that the and is sweet. Procure at the drug store a piece oil and pross the earth about it. In a few hours examine and if the paper has acquired reddish tinge, that soil shows what the chemists
 case, in liming land for alfalfa. Alfalfa revels in lime, and demants a sweet or alkaline soil, as the bacteria which work on its roots will not thrive in an acid soil. Wiven soils overlying a t is wise therefore to sow early in spring two ons of air-slaked lime, or six or eight tons of ine ground limestone per acre. To this, add 30
wood ashes, if available Work in well. and prepare a fine seed-bed. If alfalfa has not previously grown on the land, scatter over it, say, half a load per acre of sur ace loam from an old alfalfa field or a sweet \& of no benefit). If such soil cannot be had, send to the Agricultural College, at Guelph, Ont., lfalfa with which to inoculate the seed. So april or early Mav, at the rate of 20 pounds of alfalfa seed per acre, along with a the alfalfa seed in front of the drills, the soll rained hillsides, in fine tilth med, and enriched with manure and ashes, with wenty pounds of good alfalfa seed sown with a light nurse crop (or none at all), with the seed
well covered. compressed. and kept. moist until Errmination by a loose earth mulch, and with ther soil or seed inoculated, as advised, there is have a permanent stand of the most profitable field rop grown on Canadian farms, of all the con-
litions specified, we would especially emphasize
\$15 a Year for Carbide
I have noticed a couple of letters in .. The Furmer's Advorate," recently, in regard to acetyprer sear for carbide. and " Farmer's Wiie," writcost per year is $\$ 40$. Now, it does not matter he number we use, and the length of time we use therm, that counts. We use a generator that
drops the carbide into) the water and generates was as it is used, and the cost per year for car-
lide is $\$ 1 \%$, and I think we use as much light as harly any farm house. There must be some
$\qquad$


Prices of British Grain, 1908.

$\qquad$
$\qquad$
for every day's delay in the seeding, after the
first week was passed in which the sceding took place, there was an average decrease of 56 pounds s. 53 pounds barley. 29 pounds of


## I <br> 



AHCH 18, 1900
Likes Cambide-feed Machine.
Editor am afraid that " Farnuer's "ite " pays
1 an very high price for illumination, if she can only
average two lights on $\$ 10$ worth of carbide. We have seventeen lights in the house, and averag about four an evening, unless something specia is doing. The gas time, the bathroom and kitche have to be lighted in the morning, as well. N coal oil is used at all, except in the stable lan tern and incubatore and the other dry-goods use the same make of generator that I have, and their light costs them from $\$ 40$ to $\$ 45$ a year and they average bill that both these stores pai
The electric-light formerly was over $\$ 80$ each. My machine is which retails here at $\$ 3.50$ per 100 pounds. A the water-ieed machines that thave examined have beer. extremely wastetut on construction. II."Farmer's Wife "
dangerous in dangerous ange her machine for a more up-to-date
were to chang
wenerator, in two years' time she would save the generator, in two years' time she would save the her money as she
Huron Co., Ont.

Dragging in the Mud
 whenever the frost comes out and mud appears. lomplished in shaping the crown when the mud will help to restore the crown, smooth the raad, hasten drying, and, if not cut up immediatel
aiter, will tend to produce a hard, oval crown A day with the drag in early spring will often d more than a day with the grader in May or June,
mat
and at but a fraction of the cost. There are on and at but a fraction of the cost, The first is when most soils three stag-eol. At this stage the drag
the roads are sloppy-wet iow hours to dry before being cut up again
iew hen traffic. The second is when the mud reaches waxy, sticky condition, in whe third is when the ticable to work the drag. trag will again pass over it smoothly, leaving a nice, even surface. For general work, most ase, it
sers prefer this stage, but for early spring is well to sinatch opportunity by the forelock and Irag as much of the road as practicane this helps the road to dry much faster than it the whate from ruts, pitch-holes and footprints, 240 Gallons Syrup from 400 Trees. Fditor have asked me for some information in regard
ly as possible our proceedings of last year. In
the apacity supposed to be large enough to boil the
ap from 500 trees. Over the evaporator we erected a shant, is $\times 20$ ft., with a lean-to,
under which we paced the storage tank, which held about 20 " burrels. Our bush lies on, the side or building up a driveway, since the storage tank must he nches higher than top of evaporator. A driveway is necessury to get the gather, by way of gas pipe i
building ased boards off an old board finnce. On the top we made a dentlath for the steam to escape through. It that time the snow was quite deep in the we tid not have any more for about a week, when lays and frosty nights-the kind of weather that
is hard on the fall wheat. 13 this time we had
 "uest and sast side of the fron herer lying to of the west kets the evening sun therefore the
ap rums early and late in the day. We keep sap runs early and late in the day rat and
cover. on all the pails to heep out ratin
leanese the buss part of the season. we try ") Eather sap twice a day The sap is strainem hrew times-first "hen intu storage tank, and
lank whot when it is put ind
then whon it empties into craperator. W.. boilled on an average of 12 gallons a dat
 one thon an hous the somen th in boifed roum

The storage tank we placed outside of main sides to servo as guides. This, too, may be
milding, in part by itsmlf, so at to keep Sap folded in turning. Perhaps some of our render cool and sweet, and is carried to evaporator by evaporator; and the more quickly the sap boils say, the faster it runs ill ; the sabe half an inch deop. To do good work, a mans wood or soft coal. We used mostly old rails. To carry on a syrup-making husiness with 400 trees, it requires the help of wo men, and sometimes three, in the busy part tien harrels of sap in one day. The syrup was sold for $\$ 1.10$ per gallon. Of course some people


Modern Sugar - making Outfit.

Markers for Corn Planting.

can h.. folded when not in use. In either of there are six markers. (ine will follow the outbe folded up when turning so. 3 , while having
only iour runners, marks foul rows each time, be only iour runners, marks four rows each time, be-

## Re Acetylene Lighting

Editor "The Farmer's Advocate" :
Have used acetylene gas light in our house for firteen months, and in that time have used 450 iss. carbide, at $3 \frac{1}{3}$ cents per pound $=\$ 15.75$, which is a large amount, as the first 100 lbs. went very
quickly, machine, with 18 lights in house. Have not an in lamp in house The light is unexcelled, and is out of reach of children. Am well satisfied dropping in generator is one with the carbide Cssex Co. in the

## THE DAIRY.

P. E. I. Dairymen's Annual Meeting.
The annual mecting of the Prince Edward Island Dairymen's Association was held in the Agricultumancing Wednesday, the 25th of February, There was a fair attendance of dairymen
present. Harvey Mitchell, of the Dominion Dairy present. Harvey Mitchell, of the Dominion Dairy
1lranch, was also present, and added to the Rranch, was also present, interest of the meeting by his lucid discussions of interest of the meeting by his
the different problems that confront our dairy in-
terests.
The financial statement of the Secretary showed a very small balance on hand, and also noted the
inability of the association to carry on any educative work in dairying for want of funds.
dairy stations for the year was encouraging, and dairy stations for the year was encouraging, and,
in comparison with last year, showed an increase, notwithstanding that three cheese factories remained closed during last season. The following


Milk supplied for cheese, $1907 \ldots$
Milk supplied for cheese
24,423,349 1,869,186 8,217,184 $\frac{9,367,522}{1,150,388}$ Milk supplied for butter, 1907.
Milk supplied for butter, 1908. 1,150,388 Which shows an increase of milk supplied to the dairy stations for cheese and butter in 1908 of
3019574 lbs. The gross value of the output of the cheese factories for the past season

|  | was........: |
| :---: | :---: |
|  | n increase |


| Of butter for past season................ | 102,385.17 |
| :--- | :--- |
| An increase over 1907 of..............$~$ | $14,459.74$ |

The net average return to the fac- $\$$$\begin{array}{r}74.14 \\ 89.61 \\ \hline\end{array}$
average of milk supplied per
8,518 1
patron in 1907
$\qquad$

It will be seen from these figures that though patrons of factories have decreased to the number of 315 , the average per patron has shown a fai
increase. Island the last few years, and though some fac Ories have closed for want of support, others that are well located are increasing their business Mr. Mitchell, in the course of an address, said that the great want of it was more milk. We had splendid factories, up-to-date plants, and could double our output without any more ex a very interesting discussion took place on the testing of milk, and the variations of the test at lifferent times and under different conditions was
"xplained. A very animated discussion took place on the " Hand Separator." which is being sold here now to considerable extent, some dairymen contending that it will hurt the dairy business, and others buttermaking. But the separator men are going right along, and the best thing for dairymen to To is to adjust. their business to the change which fast coming on them, and make an effort to
anducate milk producers in caring for cream prop-
J. A. Dewar, of New Perth, read a very in-
tructive paper on "Nairving
E. Island," in which he strongly advocated the feeding of our raw products to dairy catte, and geting better returns for our by shipping them in a raw state at great expense for freight. Mr. Dewar emphasized
the fact that where farmers had free access to shipping ports and sold off most all of their raw material, the farms were producing less and less
each year, while in dairying the land was becomeach year,
ing more productive. At the evening meeting of the association, Premier Haszard and many members of the Legis-
lature were present, and took part in the discussion.
On the second day of the meeting, Mr. Mitchell held a cheese and butter makers' class, when many of the makers present took parter making.
cussion of the art of cheese and butter cussion of the art of Island complain of the excessive railroad rates on cheese and butter from
the factories to the shipping points. They comthe factories to the shipping points. plain that in comparial the rates are not proportionate. This is not as it ought to be. Dairying needs all the encouragement it can get, and does not seem just right that fishermen are paid
bounties every year in their business while the bounties every year in to tax themselves pretty highly in order to have inspectionat is of paraup a somewhat new industry of our agriculture. mount importance to the is inspector and instructor for the whole Island, gave an exhaustive report
of his work for the year. He found little to be of his work for the year. He output, and reported desired in the quaity of the work in a careful manner; and also reported that all factories were wel
kept and cleanliness the rule rather than the exkept, and cleanliness the rue reod prices of recent
ception. Dairymen have had gool years for their products, and they seem now to be paying particular attention to the cow and her
feed, with a view to increasing the amount of milk feed, with a view to increasing the amount This is the lesson P. E. Island dairymen must learn if dairying here is

Whey Pasteurization Gaining Pasteurization of whey, tried in 56 factories in Western Ontario last year, is rapidly gaining
avor among patrons and makers, there being a large number of additional factories adopting it n 1909, the patrons in not a few cases initiat-
ing the movement themselves, and in other cases cheerfully increasing the allowance to the makers cor doing the work and supplying the steam.
Only in a very few instances where it was tried in Only in a very few instances where it was thual fac 1908 has it been voted down at the annual fac
tory meetings, and these have been at factories where the pasteurization was not properly done
in 1908, owing either to lack of adequate faciliin 1908, owing either to lack of adequate facili-
ties or lack of necessary zeal and effort on the ties or lack of necessary deal and ellort on the
part of the maker. Generally speaking, the idea part of the maker. progress. The increased feed-
is making marked
ing value of the whey, due to retention of the ing value of the whey, due to retention of the
fat and delivery of the whey in swect, wholesome fat and delivery of the whey in swech alligent pa-
condition, appeals strongly to the intell condition, appeas saving in tinware, the greater ease in washing the cans, while the advantage fr
a manufacturing standpoint in the making a manufacturing standpoint in the making goosy flavors, appeals especially to the maker peals to patrons as a better proposition

Churning Difficulty Overcome. To-day, on page 354 of "c The Farmer's Advo
cate," I read an article on trouble in buttermak cate, Several years ago 1 had the same trouble.
ing.
My son was at the 0 . A. C. at the time. He came home for a few days, and 1 told him m
trouble. He advised me to keep my cream in moderately-warm place. cool my cream hefore ad-
ding or putting in the crock, stirring a few minutes every time I added the fresh cream; twenty four hours before I was rearer the stove, add two quarts buttermilk, or milk previously soured until it was thick (the sour milk is to ripen the (ream), stirring it wel
often, and then churn at the temperature mark for churning on the dairy thermometer-6.t degreas
in winter. My butter came all right, and was as Rood as could be mate. R. J. T. According to the Consum und sintivities Momthy


 ious record. $\longrightarrow$


Improved Transportation fo Cheese
$\qquad$ Uuring the past few months the usual educaional campaign has been waged in the interests of the cheese industry, and a great deal of and
able information and sound advice has been preble information and sound advice has se medium of factory and Institute meetings, boxes: some of these have clean scale-boards onventions, and the public press. The produc- but many of them are greasy, and general appeat ng side of the business having thus been well ance hat sufted firm reports on 45,358 boxes hreshed out, it should now be in order to hear arriving in heated condition, ex 19 steamships. from those engaged in distributing Canadiun. They add: In most of the abovementioned so that we may learn their views and profit by shipments the boxes handed in transit, and have arrived here in badtheir criticism, in so far as it appears disinter- handleden condition.' Their report is dated ested and well founded. I would like, therefore, September 27 th. Several other reports of a o quote a few of many letters recentyy butter similar character werc Te, and in import trade in London, Liverpool, Bristol and (omparine the evidence of 1900, as quot pol
 nquiry from the cargo Inspectors ennplorage lowing letters from cheese importers in Great Commissioner's Branch, at these ports, who asked hastain, been made through itmproved facilities and our cheese was landed during the past season, intelligent super reters received from Iondon merwith particular reference to heated cheese. is noteworthy that, almost without exception, chants form the Co-operative Wholechese firms say tast season, or else such a small quantity sale Society, dated January 7 th, 1909 . - " In reas to be practically unnoticeable, athis, the hot summer we had and the abnormal the Dairy and Cold-storage Commissioner, at otthe hot summer we had and the abnormal corr, tawa dated January znd, permit me to say that, caused by drouth and smoke from forest fires, for the past few years we have, with pieasure,


Dinah of Lawnridge 127799 .

- ackertised
mate the additional revenue reccived from our fales of cheese last jear, on accomit of the tine expense mecurred by havins the cheese in coo解 large sum. Lery few appreciate this fact, our ing of cheese during the last ten years, and, as being taken as a matter of course ; but that wery it could well have been improved on. We believe different conditions existed eight jears ago, is this is the general imeling of the trade here, es IV. liobertson, then Commissione of Agriculture advantage of the cool storage on the vessels." and Mairying, given before the Parlimentary Copy of letter from Andrew (lement \& Sons Committee on Agriculture, in March, 1901, in Cimited. Aondon, dated Natian cheese have carried much ". Iast season our cheese trade wot the worst hetter the last season or been given not only to ever got. It is now in an precarious condtion. I the carrving, but also as regards the handing dountul position than it is at present We. mot ing same lout oi let from Rowson, Hodgson \& Co. Aurust and september caused the chowse to he Ith. Iondon, dated January 7 tha, 1909 : - Heated heated. und much of it was landed in lingland in 'huense (hur expertence is that onta this season this summer of 1901 to the extemt of $\$ 2$ nommon han shan amy external or internat sion the




 cribed to the improved means
of transit, both by rail and
of boat. We have practically
had no cause for complaint had no cause for complaint of the cheese being heated,
more particularly during the last two or three years. Go-
ing back prior to this period, say, ten years ago, or be
fore, we had frequent cause for complaint of heat in the
cheese. This leads me to
sne answering say, answering your second the improvements during the
last decade, in the matter of ocean carriage, have hrought ${ }^{\text {ClI © }}$ Copy Of Christernas, Lrom LovOncton, dated January 4th,
1Yo: in reply to yours
oi the 2nd inst., speaking trom our
ence, the percentage of
heated cheese throughout the past season has been prac-
lically nil. During the "arm weather, we brough
all our cheese in cool-stor
age, at a small additional ireight, and found this pre tange, because the cireese arrived in perfect condition, xtra
nadian cheese, which I do
not doubt can he safely as-
$\qquad$號


## POULTRY.

Egg Prices in Manchester, Eng. Prices paid for eggs this winter have been
phenomenal, and all descriptions have sold well, phenomenal, and all descriptions have sold well, writes a a shortage of cold-stored and pickles,
Owing to
and the absence of insufficient supplies of fresh, eggs have made record prices. Egyptians, which in $h a v e$ recently realized $8 \mathrm{~s} ., 9 \mathrm{~s} .$, and even 10 s . per have But the tension has eased somewhat,
hundred. large production of Irish for the time of
and a and a large production of lrish for the
year, together with French, has reduced
down to something like a normal point.

Another B. C. Flock Record.
I had 40 hens to start with on January 1st, 1908. They had the run of the barnyard, so it
is hard to tell what it cost to feed them ; in the winter time it cost 20 cents per day. I feed all wheat. I set 15 hens, and raised 90 chickens. orth $\$ 22.50$; and sold six two-year-old hens or $\$ 1.00$ each. I keep pure-bred White Wyandottes and Single-comb White Leghorns, and a cross with the Nyande male and Leghorn hen. Their eggs are larger than the pure-breds'. The
eggs were 50 cents a dozen all last year. I got
5,514 eggs, at 50 cents per dozen, $\$ 229.75$ Roosters
Pullets

| 25 cents per d | $\begin{array}{r} \$ 282.25 \\ \quad 91.25 \end{array}$ |
| :---: | :---: |
| . |  |
| An average of $\$ 4.77 \frac{1}{2}$ per hen. |  |
| 1 put the feed at 25 cents per day, and I did count the old hens that I sold. My house is |  |
| $12 \times 12$ tt., 4 -inch wall, filled with shavings; 4-ft. windows, no glass, only cotion, and I have to |  |
|  |  |
| raise the curtain in the day time to give them |  |
| Scratching-shed $12 \times 20 \mathrm{ft}$, open frontwith wire. It was 50 below for a day |  |
|  |  |
| some combs froze, but they never st |  |
|  |  |

## GARDEN ORCHARD

Producing Crops in Farmer's Garden.

The farmer who does not provide a good vegelable garden is not doing his duty by his family,
himseli and his bank account. A supply of fresh vegetables through the summer and autumn is not
only extremely conducive to health, but will save supplying the table. Less meat and more fresh vegetables means comfort and smaller doctor bills The cost of the garden is trilling; if properly proper cultivation will not be burdensome.
The principles that apply to the small-fruit garden apply also to the vegetable garden. Every-
thing should be planted in rows; the longer the thing should be planted in rows; the longer the
rows, the better. Forty rods is a fair length. rows, the better. Forty rods is a fair 1ength.
This will allow of successful and speedy cultivation
with a horse and scufller. The soil should be a with a horse and scuftler. The soil should be a
nice friable clay loam, muck, or even a sandy soil would do. The two latter are liable to sulThe garden should first contain a fair supply of early potatoes. 1 have practiced planting whole
tubers for early crop. These send up strong







 with Iruch, but are generally the heaviest taearers.


the field. The field peas soon ripen, and the green-pea season is thus a very short
Green beans are easily, grown, and, like the peas, may be sown at difierent times, so that a
supply may be had during most of the summer supply may be had during most of the summer
months. They must not be sown, however, till the ground is thoroughly warm. Do not cover too heavily, as the young seeding has to liff the bean, the two hal
iedons or seed leaves
A supply of beets comes in nice for a change.
There are two forms, the turnip and the long There are two forms, the turnip and the long The turnip beet is best for summer use, a
thains an edible size sooner than the long red The long red forins a good keeper for winter use. The long red forins a good keeper for winter use.
Parsnips are easily grown. The seed is sometimes slow in glerminating, but do not hoe the
row if if the plants are not up in a week. Have row up if the plants are not up in a week.
patience, and they will come. Parnsips are ime-
proved by heing loft in the aroved by being left in the ground winter varieties
Cabbages, both summer and form a welcome addition to the table. The seed,
which germinates readily, may be sown in a box in the house during April, and transplanted to the garden rows later on. Put in a good supply. welcome it during the winter months.
Tardematoes are one of the best products of the garden. Sow the seed in the house during the
last of February or the first of March. When the plants have got their second leaves, transplant :nto boxes about two inches apart. Give all the sunlight possible, or the plants are liable to damp off. Plant out in the garden as soon as throwing up a small ridge, about have furrows in size ; set the plants in the middle of this, about four feet apart. In selting out the plants, do not place them upright, but plant in a slanting
pusition, covering the stalk up to within four or pusition, covering the stalk up to within four or
five inches of the top of the plant. Fresh roots five inches of the top of the plant. Fresh roots
will start all along the stalk where the dirt touches, and will materially hasten growth and increase yield. If planted upright, the strong,
chilling winds that sometimes prevail are liable to chilling winds that somed will surely retard growth to a very large extent. Sixty or seventy plants are sufficient to produce a supply for the ordinary
family, both for table use and for canning. As family, both for table use and for canning. As
to varieties, I have had the best satisfaction with Apark's Earliana, as the tomatoes will all ripen in time to escape the frost. Plants may be bought from the hothouse by farmers not wishing to grow their own, but I have
faction from home-grown plants.
the ridge givers moy to sown on the remainder of will not occupy the forty-rod stretch. The cu-
will cumbers are easily grown, and furnish a relish and a crock of pickles for the housewife. Salsiry or vegetable oyster is a sort of cross between an oyster and a parsnip. They resemble
the parsnip in shape, and taste like a diluted the parsnip in shape, and taste like a diluted
ovster. They can le grown in the same manner as parsnips.
as parsnips. is as easily grown as a burdock, and makes good "greens." Ietuce makes a nice salad, and is greatly rellshed hy many, if yor or folding varicty, if you wish something extra crisp and meat, The heads are long, and the outer leaves fold in like a cab-
bage. To secure the best results, they should be tied with string. in a hundred plants of Io not iorget 10 put in a hundred plants of
elery. White Plume for the early varicty, about 2.5 plants, and the remainder some good winter
varioty, like the Giant Pascal. Plant on the level if you would secure hest results, and earth up you would have the best quality, A scrape of
the plow on each side of the row facilitates the earthing-up process. ()n the approach of har weather, die the celery up and transfer to the cellar. Pack in sand or dirt, placing the bunche
close together. In watering, do not let the wa ter touch the tops, or they will rot. I.ight
any ordinary frostproof cellar.
HoTBED FOR STARTING MELONS,
Melons are a luxury-not a necessity-but you would like to try a few, I will tell you the plan that has brought me success. The first nec-
essity is a hothed, which is easily constructed out of a few boards of cull lumber, an old window
sash, and a few wheellarrow loads of horsestable manure. Make a frame of the cull lumber your fraine does not need to be more than six inches deep in front, and a foot behind. This is
to give the glass a slant, so that it will face the sun. Dig a hole in the ground the same size as
your frame. The hole should be about two feet deep; fill up level with the manure and tramp
down. Place your frame over the hole, and fill in about two inches of good soil over the ma-
nure liank up the frame on the outside with dirt to keep the frost out, and to prevent it from
bring shifted. As soon as the manure is sufficiently heated, the hotbed is ready for work.
Now, from an old bush pasture, dig some rich Now, from an old bush pasture, dig some rich
vert the sod, thus putting the grass side down, and in each inverted square plant two or three thin out to one plant to each square. As soon s the weather becomes sufficiently warn, and squares of sod to the open garden, into hills which have been well enriched with rotted ma-
wute. Put three plants to a hill. The hills ure. Put three plants to a hill. The hills should be at least five feet apart, and further is
better. Liquid manure, which can be obtained in any barnyard, makes a fine fertilizer for musk melons, but do not apply when the ground is good luck, when autumn comes, bringing a supply of ripe, melting musk melons, you will think your self amply repaid for your trouble
With watermelons I have had but poor success, has if any reader of The farmed in growing them to his satisfaction, I would like to hear from him through these olumns.
In vegetable gardening, the secret of success is good fresh seed and clean cultivation. It does not pay to keep broken packets of seed over from year yen over a year some Garieten peas are especial ly liable to deteriorate. I have learned this by experience. When garden stuff is planted in long, straight rows, the duced to a minimun
methods. They have simply described my own minimum of labor. I have made no attempt a grow for market, but hy aim has been to supply my own table with fresh vegetables during the summer and autumn. My methods are open to criticism, and if any reader of "The Farmer's produce them that is, for the ". ancient and honorable society Middlesers of the soil."

## Honae Market for Apples

It is a recognized principle in political econ my that the best-paying market is the home market, up to the limit of its capacity. Unfortunately, this market can be overdone in some particulars. In order to determine whether the home market was properly suppried with apples this winter, I made inquiries from the merchants the principal smaller lowns and cities of ario. In almost every case it appeared that cellent demand for all the winter varieties. Prices ranged high-from $\$ 7$ a barrel in Montreal for oice Spies, to $\$ 4.50$ and $\$ .60$ in the smaller There is not the slightest doubt but what housands of barrels would have been consumed grown if they had been properly stored and ofLondon and Brantford were all practically bare London and Brantrord were and had only the lower grades to offer, and these at high prices. On the whole, the prices have been good for winter apples in the Old Country markets, but at markets, and just at present the home-market markets, and just an the British market prices. Nevertheless, there is a constant stream going to the Old Country, while our own people are eating is not an extraordinary year in that respect. Four years out of five, at least, there is a shortage in the home markets, and the growers cannot do home markets, at least, will be supplied. (If course, there is danger of overdoing the ocal markets. The remedy those who propose to store apples will let the fact be known early in the season, and not attempt to store by stealth here is little danger of storing too many. much as possible at local points, to save freight; but, far better pay freight to and from a good cold-storage warehouse than attempt to hold apples where the temperature cannot be kept at cess thay do for
grees. The ordinary farmer's cellar may storing a few barrels, but is altogether too warm a place to risk any large quantity in. I note ing of apples sufficient for home use, I would also add the caution that, in order to make the proper storehouse facilities. A. McNEILI

Received the watch some time ago, and am well satisfied with it. It goes well, and keep
good time. Thanking you ever so much for you good time. Thanking you ever so much for you
trouble, 1 remain.

Apples Picked Before Mature.
I beg to say, in regard to your reference to the keep, that this is a question we have been considering for some time. It is a pretty hard question to decide, until a thorough test has been made fit as a solutio I believe, notwithstanding Mr. McNeill to the contrary, that our apples will keep about as we as those grown fartuling them. This, I think,
proper means of handing proper means of handling them. I have in my cellar a few Baldwin and Spy apples which are as One and juicy now as any 1 ever ate, and that,
too, after an unusually trying season for apples in general.
I think many of our buyers pick the fruit much
too early-a good deal of it before it is mature. This, being picked in hot weather, without an This, being picked cool it, ripens much faster than it would otherwise do, and consequently will not keep. I have noticed, too, that fruit from wellsprayed orchards keeps much better than
unsprayed; this is particularly noticeable. This may be partly from the freedom of the fruit from fungous diseases, but I believe is largely due to the increased health and vigor the foliage seems
to get as the result of spraying. The foliage to get as the resure later in the season, and, I should think, would develop more fully the fruiting spurs for the following seasons crop. this increased vigor, the tree develops its it will
much better, and, being fully developed, it will much better, ander In many seasons our winter varieties, such as Spy, Baldwin and Russet, will keep till July 1st, in an ordinary cool cellar; and
I think that is about as well as northern fruit can do.
While I think our country is peculiarly adapted to the raising of the very first early varieties of apples, because we can get them into the markets
of our own Provinces when those markets are absolutely bare of apples, unless held, over from the previous season-and the varieties do well
here-still, I think that our winter apples should not get a black eye, as to keeping qualities, until not get a black eye, as to keeping (and I do not
we are sure that they deserve it think they do), because it tends to hurt the
of them in competition with northern fruit. of them in competition with northern fruit.
I know that we can grow as fine fruit as
have seen in any part of the Province-some va have seen in any part of the Province-some vari-
eties better than others-but, as to its keeping qualities, I believe it is simply a matter of proper
handling and cooling.
W. I). A. ROSS. handling and cooling.

Growing Early Tomatoes.
(ditor " The Farmer's Advocate":
Some notes, the result of experience in tomato growing for the early, tancy warkel, The canning ractory, and his time. Returns of from $\$ 100$ to $\$ 300$ per acre in a season have been secured. The plants, of course, are started in hothouse or hot-
bed in March (the sooncr, the better), using bed in March (the sooncr, the better), using
wooden trays 12 in. by 24 in ., and 4 inches deep, wooden trays 12 ine, moist, rich mixture of mold, sand and manure, about three inches deep.
Sprinkle the seed along in rows two inches apart. Sprinkle the seed along the plants are two inches high, transplant into other trays, seven in a row
across, and ten rows, making 70 phants to across, and ten rows, making louple of weeks, and transplant again, 24 plants to the tray. After
three or four weeks, move into individual boxes. $5 \times 5 \times 5$ inches, without bottoms. In trans-
planting, disturb roots as little as possible, so as planting, disturb roots as litte as possible, so
not to check growth. Keeping them still in the hothouse or botbed, by May 24 th to June 1st.
blossoms will he out and fruit sit. At first, it hothouse, sprinkle with water about three time
 the second trays and individual boxis. they wil need watering covery day. Kinock out end of box
and set nut soil and roots in mass in holes, rows
and 5 feet apart, and plants 4 feet apart in the row ing with water, well into roots. 1 . can them to
north, so the wind will not break off tender talks, north, so the wind will not break off tender talk
which are now athout tis to 20 inches high. They which are now athend turn towards the sun.
will straighten up and
Before setting out in the field, harden th plants by opening the houthouse windows durin
 prefer sprine plowing. When the land is thorough Is dry: and cultiation, ton kill wolt first crop of cininum

plants in small hothed, and tramsplant a couple of times, to get them well rooled, in trays or
into cold-frame covered with glass or cotton. If ou have no trays, move them without the last transplanting.
As to varieties, As
large, smooth, firm.fieshed tomato; and next,
Chalk's Early Jewel, lighter in color. For later use in the home, and canning. The Stone is a splendid sort. These three variet ies give a good for sale of fine tomatoes, eit Save the seed from a number of your choicest
tomatocs. When thoroughly ripe, hreak open and tomatocs. When thoroughy ripe. in water, and when quite clean dry thoroughly in sun or by the stove.
Essex Co. Ont.

Two-hundred-dollar Garden

## Two-hundned.dollan Granden.

$$
\begin{aligned}
& \text { Editor "The Farmer's Advocate" } \\
& \text { The size of my garden is } 20 \times 8 \text { rods, enclosed }
\end{aligned}
$$

$$
\begin{aligned}
& \text { The size of my garden is } 20 \times 8 \text { rods, enclosed } \\
& \text { by a wire fence, with a twelve foot gate at the } \\
& \text { by }
\end{aligned}
$$ corner nearest the buildings. The soil is a clay Houm, with a gravel subsoil; dry early in the

spring, and free from frost. The crops grown are strawberries, raspberries,
grapes, currants, gooseberries-for fruit ; corn, grapes, currants, gooseberries-for iruit, corn,
potatoes, beans, onions, beets, carrots, parsnips, lettuce, celery, salsify, parsley, tomatoes, water and musk melons, cucumbers, citrons, cabbage, cauliflower and rhubarb-for vegetables. The west. All the rows are three feet apart, except the tomatoes and raspberries, which are four
feet. The first row on the south side is grapes. feet. The first row on the south side is grapes,
six vines; the rest of the row, currants, goose six vines, the rest of the row, currants, goose berries, rhubarb and parsley. it plant five rows Sond berries, rhubarb and parsley. I plant five rows
of strawberries every spring, and take only one and Length of Season
cron Sow with clover after picking, and the

The strawberries are Crescent, Brandy whe and
illiums. "illmams. Laspberries-Marlboro' and Culhbert.
frapes-Concord and Champion. P'otatoes- Ciarly 1. Weeks and Rose of the North. Corn-(iolden
Tomatoes-Earliana.

# More Apples of Low Quality. 

 Further complaints regarding the quality ofanadian apples on arrival at distant markets Canadian applested, this time from Australasia, on British Columbia shipments. J. S. Larke, sydney, sajs: packers have been received lately, and the Australian firm which has taken up the import of British Columbia apples, with excellent promises
of success, advised that they were compelled to of success, advised that they were compelled to
refuse acceptance of the second parcel sent to Vanrefuse acceptance oner for shipment. The writer states that, for
couver
this year he required 70,000 cases for Australia this year he required 70,000 cases for Australia
and New Zealand. Another shipper also sent and New Zealand. Another shipper also sent
very large quantities. that 13ritish Columbia could spare, but he had been discouraged. His statement is that the ruit in the last lot offered for shipment, he
found, after examination in Vancouver, that only 15 per cent. were suitable for Australian markets, while the balance varied from second-quality to worthless fruit. Maxwell Sinith, the In-
spector of Fruit, of the Department of Agricul spector of Fruit, of the Department of Agricul-
ture, at Vancouver, has the matter in hand, and will investigate both sides of the case. Certainly, the trade cannot be carried on unless it be by

Soil and Length of Season Influ
influence on the
keeping Feping $o r$ $\begin{gathered}\text { quality. } \\ \text { instance, }\end{gathered}$ apples grown on apples grown on
clay or clay loam,
with plenty of keep longer than
those grown on
sand or or sand Sand or sandy
loam. $\begin{gathered}\text { The sole } \\ \text { loason } \\ \text { reason why apples }\end{gathered}$ krown why apples
in t e
northern districts krown in the
northern districts,
such as Lake Huron and Georgian
B a y districts,
keep $\begin{array}{cc}\text { B a } y & \text { districts, } \\ \text { keep } & \text { longer, is } \\ \text { that } & \text { the season }\end{array}$ is later: season
hence
is lates ripen dur-
apples apples ripen dur-
ing the cooler
weather, and the weather, and the
ripening
process
is much slower. In fact, they
are ripe, but are
not matured or are ripe, but are
not matured or or
ready for use for use
for some months
later. For inlater. For in-
stance, the Duch-
ess is ripe in the ess is ripe in the
southern counties
from ten days

Dunure Rot ert (Imp.), |8020| (13870)


## THE FARMER'S ADVOCATE

THE FARIM BULLETIN E. Laidlaw, Aylmer ..........................
Idaline I'auline De Kol; J. Kelly, Tillsonburg ..................... Idaline Ladoga Beauty P.; Dec., 1908; Geo rah Veuman; Oct., 1906; P. D. Ede, Ox Iord Center ... ..............................
Baroness Ladoga Veeman; March, 1907; S. Middleton, Cable, Ohio Sora De Kol Veeman; March, 1907; P. D.
Ede, Oxford Centre ................................. De Kol Paul Baroness Topsy; E. Laidlaw,
 And calf, W. McQueen, Tillsonburg.........
Ladoga Idaline Veeman; March, 1908; Hulet, Norwich ...............................
 Houwtie J. P. Inka Paul, February, 1900;
 Arthur Clarkson, Summerville.............. A. Shaver, Islington

And calf, W, Browning, "Cairngorm,
Calamity Brook Princess; January,
Calamity Brook Princess; January, 1907; B. Walker, Beaconsfield ... 1905; T. . H. Dent, Woodstock
Canary Butter Girl; May, 1905; Jas. Ret...........
 Canary Canton, Villa Nova ... ............... Canary Starlight Lassie B.; Dec., 1900; R.
J. Kelly, Tillsonburg J. Kelly, Tillsonburg ... ....................
Canary
S. Canary S. Calamit Summerville Ger. W. Pathett, Summerville 1908 E. Laidlaw, Aylmer
Mercedes Canary Piet
Mercedes Canary Pietertje; Sept., 1902; R. Jaysie Inka De Kol; Aprii, 1906; C. E. Moore, Peterboro, ...... February 1907 Posch Calamity Colantha: February, 1907;
Alf. Rice, Curries Crossing ............
Duchess Calamity Posch; January, 1907; F. Duchess Calamity Wasch, Culver, Waterfor .....................
L.
Calamity Starlight Butter (Girl; November, Lalamity Starlight Ruter Giir, November,
1906 ; R. Brookfield, Tillsonburg ......... 1906; R. Brookfield,
Calamity $\begin{aligned} & \text { Ormshy Girl; } \\ & \text { Novonburg } \\ & \text { Nove., 1908; }\end{aligned}$
 Corinne Calamity Posch;
H. H. Dean, Guelph
H. H. Dean, Guelph
Her calf, W. Wryant, Cairngorm

Calamity Houwtje; Feb., 1907; M. McDowell, Norwich ... Ma........................ Calamity Butter Girl; May, 1905; W. H
Morgan. Palmerston Daisy Texal Calamity Posch; Jan., 1906; Alf. Rice, Currie's Crossing ... 190..........
Calamity Texal Johanna; Jan., 1908; Ed. Calamity Texal Johanna; Jan., 1908; Ed.
B. Purtell, Bloomfield .....................

Her calf, 11 m . Thompson, (ioble's
Calamity Ma......

Princess Calamity Fearl; Jan., 1908; Geo. Herbst, Alsfeldt ...............................
Gaza Aconeth Calamity; Feb., 1907; A. Hulct, Norwich .................................. Rettic, Norwich
Edith Anthony 2nd; Jan., 1906; Wesley Allen, Tillsonburg ...... 1908; A. ..............
F.dith Ormshy ; December, Notherland We Kol (ilenice; Sept., 1903; R. Ladv Bess Boon; Jan., 1900; J. W. Allen, Lady Wavne Norine; May, 1896; W. Rife, Winnie I: 's ratamity Posch; Nov., 1905;
 Brvant, Cairngorm $\ldots$..................... Mc:Canncll, Milton ... Fe................. tin Ualev, Springford
Princess Calamity Corly: Jan., 1908; W. A Princess ('alamity Cody: Jan.,
Patterson, Agincourt
('alamity Posch Rose; Feb., 1908; James Motherall, Drumbo
Duchees de Boer Ianthe: May, 1907; B Duchess de Boer Ianthe: May, 1907; B
Nalker Villa Vora
 HOLSTEIN MALES,
Paladin Ormshy, calved Feb., 1907, to F
(arr, of St. Thomas ........................ Carr, of St. Thomas … .................. $\$ 365$ Holthy, Relmont ....... Jan....................
Calamity Posch Johanna; Jan. Bishop, Norwich
 Calamity King; Jan., 1908; A. II. Har Calamity Ormsby; Dec., 19us; J. S. Mc Cannell, Milton ....... ......................... alamity Cana Prince; Fel., 1908; Sam Sir Canary Ormsby; Feb., 1909; 1r. Eng lish, Hamilton Ayslum ... .................... Daisy Texal Posch Pasma; Nov., 1907; John Mckpnzie, New Durham i........... Breen, Ingersoll ... ............................
Count Carlotta Coin; Nov., 1908; M. Rice, Count Carlotta Coin; Nov., 1908; M. Rice,
1surgessville Winnie Count Pasma; Jan., 1908; John Dent, Woodstock M............................ Calamity (Gaza Aconcth....Veb. 1908; W. L Grass, Westbroohs ........................... Mandeville, Tyrrell ... ....................... Patterson, Elford
Prince Calomity Madona; Jan., 1908; Jas. ................
 Fell, Powle's Corners May, 1908; Wm
Calamity Wopke Prince; May, McLeod, Kintore … ..........................
Boutsje Calamity Prince; March, 1909; L. H. Lipsit, Straffordville
Duke of Kent De Kol; April, 1908; W. J. AYRSHIRE FEMALES.

Avon, N. Nov 1901: E. Cohoon,
Harrietsville ... ... .............................
Annie Laurie 3rd: Noy 1907; W. W. Bal.
lantyne, Stratford 1904 :..........................
Star's Alpha; Jan., 1904; E. Cohoon,
Harrietsville ....................................
Her calf (male), Jan., 1909; G. W.
Star's Annie Laurie: Nov., 1905; E. Co-
hoon, Harrietsville … .......................
Her calf, March, 1908; Collier Bros.
Her calf (male), March, 1909; A. W. Har
wood, Hickson … .................................
Star's Sprightly; Nov., 1905; Wm. Chute,
Her calf, March, 1908; Percival Bursee
Oxford Centre … ................................
Scotland's Lucy; Oct., 1905; E. Cohoon,
Her calf, Jan., 1909; Collier Bros.
Reachville
Eugenie 13lair; June, 190. $1900 ;$
Whit Flossy Feb 1904: Wm. Thorn
Lyndoch $… … ~ . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . ~$
throp ... Vinlet....................................
Scotlands
Jewson, Ridgeway
Old Star's Last; March, 1906; E. Cohoon,

White-Legged Kirsty; April, 1906; A. W.
Harwood, Hickson
Lucene of Meadowside ; March, 1902; F.
Harris, Mount Flgin …......................
Scottie's Daisy; April, 1906; J. G. Clark,
Ottawa ……...................................
Scottie's
Luther Pinghegar, Dorchester ...
Luther Pinnegar, Dorchester
AYRSHIRE MALES
Stadacona Advancer; Dec., 1906; J. G.

Fairfield Plains 1907 ; Luther Pinnegar
Dorchester Station ….................... 50
Mac McKee; May, 1908; J. G. Clark, Ot-
tawa $\ldots \ldots . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . ~$
Minnie's Advancer; Dec., 1908; (ico. Kil-
gour, Delmar Ma. ...
Spry McKee; Major Maniels,

## Scale Inspector

12. H. Lewis, of Hamilton, Ont., ex-president
of the Ontario Vegetuble-growers' Association, has been appointed Provincial Inspector for San Joso pointee is getting in touch with the district inspectors, and promises that every possible stop spectors, and promises that every poss
will be taken to keep the pest in check.

It was reported from Washington last week that the foot-and-mouth disease quarantine was
to be lifted from Maryland and Michigan on Monday, March 15th, and probably from New Yor and Pennsylvania, the only two states remaining

Niagara Fpuit-growers Hold Convencion.
Cardinal principles in fruit-growing were deat هith by experts at the annual convention of the week. On Wednestay, over one hundred intelligent and enthusiastic orchardists met in Institute
Hall, at Winona, for afternoon and evening sesHall, at Winona, for arternoon and evening ses sons, while, on Thursday and friday, similar meetings at St. Catharines.
ville, Mich.. Secretary of the Michigan State Horticultural Society; Gabriel Hiester, of Harrisburg, Penn., President of the Pennslyvania State
Horticultural Society; and Professor R. Harcourt Horticultural Society; and Professor R. Harcourt,
of Ontario Agricultural College, Guelph. Each proved to be worthy of a place on the programme. The numerous queries also showed that local men had combined a study of the scientical work. In fact, the true value of the meetings lay in the questions and ensuing discussions. in every side a
great interest was manifested in spraying, and
Full and clear particularly in lime-sulphur wash. Full and ciear values of the different commercial preparations and those that are home-boiled, were not arrived
at was, however, agreed that the homeboiled lizne and sulphur, properly prepared with an excess of lime, was stronger than the commercial grades mixed in proportions as directed by their manufacturers, and none had found an, dam-
age from the strongest. For this reason, growage from the strongest. not to dilute as much as directions suggested By all, lime-sulphur was proclaimed the most
satisfactory spraying mixture known to orchard practice.
In discussing spraying from the chemist's
standpoint, Professor Harcourt explained that the standpoint, Professor Harcourt explained that the boiling of compounds, varying in efficiency, according to six compounds, varyity of the materials and the extent of the boiling. In every case it was necessary to have an excess of lime, and 20 of lime tombination, with the use of the minimum quantity of line. sulphides were formed as the boiling The lowest sulphide
$\qquad$ boiling was continued, higher forms, Ca S3 and CaS5, were formed, either of which were eflec time the former desirable because of economy of time and heat. As the boiling was continued,
these sulphides acain changed to less effective these sulphides acain changed sulphites and sulphates. As yet, no test had been ascertained
surn that would inform the orchardist when he had
applied the necessary heat. A bright amber applied the necessary heat. A bright amber
color seemed to reveal the maximum strength. iron got into the mixture from the piping, through impurities in the lime, a green color was
imparted. Tests at Guelph showed that there imparted. Tests at Guelph showed that there
was but little difference in the quality of Beachwas but ville, Port Colborne or Guelph-Hamilton lime. With the last named, it was necessary to use
slightly larger quantities. Repeated tests of grades of sulphur also sulphur was superior to flowers of sulphur four of sulphur was superior the lime more readily. Analyses of commercial washes, diluted as
rected, one part to eleven of water, showed an absence in uniformity of the mixtures.
al tests, the strongest showed 115 grams of sulphides to a gallon, while the weakest contained
only 53.8 grams. Samples analyzed recently ranged from 82 grams to 59 grams. Homepormula, gave 1.53 grams after one-half hour's boiling, and 161 grains when boiled for an hour.
As to whether direct bottom heat or steam was preferable, it was claimed that there was little or vigorous.
The Profssor expresses a desire to be sup,
prod with samples, as used th leading growers The Prof ssor expresset a desire
plied with samples, as used hy leading growers
so that he could analyze them and find out just what strength was being used in individual cases
Several of the growers stated that hast vear a to collect samples, but that nothing more was
heard of it after the samples had heom made ready. Professor Harcourt cxplained that the




the first spray before growth began in spring, the erst sprat opinion said that it was not neces-
baty
sary to spray until the third leaf was coming. sary to spray until the thre a thorough applica
Then it was advised to give a tion prior to each rain, because the damp weather meant soft growth that was most likely to be infected.
Low, open heading of peach trees was urged Bassett. With him, the question of elevation received more attention than did soil. He
had found that almost any soil could be made to had found that almost any soil could be made
produce peaches, if the trees were planted where produce peaches, if the trees well as water drainage. It was essential that cold air should flow from a peach orchard as freely as
down hill. The chief objection he took to peach planta
tions in the Niagara district was that the tree tions in the Niagara district was that the tree
tops were too far from the ground, and the branches were so thick as to exclude the sunlight. In order to have attractive truit, He suncolor and superior quality went hand in hand, and the sun had much to do with both. Growers shoity.
be satisfied with ferver baskets and higher qualit be satisfied with ferver baskets and higher quat
Orchardists, he said, should not be forters.
The varieties grown in Michigan showed his choice of peaches to be: Fingle's Mummoth, Con-
klin, Kalamazoo (similar to New Prolific), Elberta, Smock, and Lemon Free.
Mr. Bassett proved to be a most entertaining speaker, with a thorough and practical knowledge of orchard work. At the evening sessions
his talks were illustrated with lantern slides, his talks were illustrated fruit-packing scenes, and other details connecte
with the handling of fruits and their culture. with the handling of fruits and their culture.
At every meeting the growers evinced a desire
Every question had a definite to master details. Every question had a definite cal men volunteered advice that would help others St. Catharines, always was on hand. At Winona, Robert Thompson, of St. Catharines, presided in the afternoon, and J. H. McNeely, of Stony Creek, at night. Ne morning meetines, at St. Catharines, while Mayor Campbell was chairman in the evening.

National Bureau of Breeding.
$\qquad$ tantamount to sayerous States of the American Union, is having the effect of discouraging the breeding of Thoroughured horses in the neighbor ing Republic, and a large num closing out their the Englist onsferring them to Europe and Can ada. The opportunity thus offered to infuse strain of Thoroughbred blood into the light-legged horse stock of Canada seems waspaper man of some means, who is and has been for some years ex-
tremely friendly with a large number of leading tremely friendly with a large number of leading
Thoroughbred owners in the United States. order to procure and disseminate Thoroughbref
blood, Mr. Ruan has interested a number of his Priends, and organized what he calls a
Bureau of Breding, the object of which
place Thoroughbred stallions in
of the Dominion, except in tho
irivately-owned Thoroughbreds already stand is
sernce. Quixotic. as the scheme appears, we have been
assured that it is bona-fide and genuinely jublin assured that it is bona-fice and genowerer, rather
spirited in its aims. It appears howeve
to have outgrown the original intentions of 11 . founders, and those behind the enterprise are roo looking to the Dominion, and may, perhaps,
appeal to the Provincial Governments for gid
On March 4th, a deputation, consisting of Mr Ram, a number of horsemen interested in the
liwhtlegued breeds, and a large contingent of the Bureal. waited upon llon. Svdney Tisher, ses mon mot s.onono. As nppeared in the duily mut in serice this year 5 , Thorouchbred stallions in different parts of Camada, to be placed in
the hands of reliatule farmers throushout the country. on comp an very easy conditions prowribedt
 subiact to the inspuction amb anperes. of expert

Conditions in the sed trade in ontario have
and. Ray- 
while apparently regarding with favor the ,1,jects iuller consideration of the matter.

Grain in Farmers'. Hands.
Reporting on the quantities of grain, hay and oots on hand in Canada at the end the country, at the condition of the live stock ind office, at ottawa, has estimated the amount of wheat then in farıners' hands in the whole Dominion at 20.22 per cent. of last year's crops, which would be $22,747,000$, out of a total of $112,434,000$ bushels. Of oats, there was 43.62 per cent., being $109,222,000$, out of $250,3,1,000$ bushers. ou ber 762,000 bushels. Of buckwheat, 29.05 per cent., being $2,078,000$ out of $7,153,000$ bushels. Of
potatoes 44.10 per cent., being $32,542,000$ out
 In the Provinces of Manitoba, Saskatemewan and Alberta, the quantity 18.93 per cent., being bushels of oats 45.93 per cent., being 44,425,bushels. Of oats, 45.93 per cent., of barlee, 33.688
o16 out of $96,718,000$ bushels. per cent., being $7,-22,000$ out of $22,926,000$
bushels.
The condition of live stock in the Dominion at horses, 78.70 for milch corss, 73.79 for other horned cattle, 78.32 for sheep, and 74.34 for swine, 10
parison.

Duty on Tin Plate Aggin Proposed
The proposition to foster a tin-plate industry nion anada, which aroused such and ather or tinware has again been put forward Tin plate is now manufactured intermittently on a small scale at Morrisburg, Ont., and, according to an Ottawa despatch, the iniant industry is seeking the imposition of a pro-
tective duty on tin plate, galvanized plate and block plate from Great Britain and continental Europe. It is admitted that the anti-dumping clauses of the Tarif Act now give protection no protection from British imports, tin in blocks, pigs, bars, plates or sheets being Scheduled free. So, to establish a tin-plate in-
dustry in Canada, Canadian users of tinware are asked to submit to a duty on tin plate, calculated oo increase the prices of the raw material, and hus indirectly, in all probability, the cost of
many useful articles manufactured therefrom. The effect would reach every farm home in Canada, as ell as the dairy, canning and other industries he agricultural community. growing sections of is the whistle
worth the price? A letter or post card to the Member at Ottawa
$\$ 200,000$ a Year for Protection of Crossings.
lem, recently introduced into the House of Comhons by the Minister of Railways and Canals, of $\$ 200$, not be appropriated each year for five as a fund to be applied, under the authority of as a fund to be applied, under the authorty ortection of existinc highway crossings of railways;
(2) that the amount contributed from that fund (2) that the amount contributed from that fund
shall not exceed 20 per cent. of the cost of the shall not exceed 20 per cent. of the cost of the
crosing protection, and that the balance be apmortionec! to the railway and corporation, accord
ing to decision of the Railway Commission (3) that payments shall be limited to crossings of than three crossings in one municipality in one year chall receive contributions; ( ${ }^{(5)}$ that crose-
inec hereaffer constructed shall be protected at the expense of the railway companies; (6) that
the lonard shall have power to order any munici the Board shall have power to order any munici In that he has never found more general in Ans at anded this wincer. Kien inter-- inned in the weed question. Alfalfa is soil would tend to preemt development of f


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|  | ate of the clover seed trade has be |  |
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|  | There has not been the usual lount of export trade done in clove |  |
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|  | dian crop should never have been sa <br> for seed, on account of the weed |  |
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|  | What is to be done with the stuff bound to worry the trade for the |  |
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|  | two months. It is practically unsalabl and hound to be the source of a gre |  |
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|  | and hound to be the source of a greatannoyance to the trade.The seedsmen have been refusing to |  |
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|  | $\begin{aligned} & \text { the general trade, is bound to find an } \\ & \text { outlet to farmers themselves, who would } \end{aligned}$ |  |
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|  | Montreal. <br> Live sitock.- Exports from |  |
|  | Live Stock.-Exports from the ports of St. John, N. B., and Portland, Me., for |  |
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|  | the three weeks ending March 6th, amounted to 3,962 cattle. |  |
|  | the three weeks ending March 6 ,amounted to 3,962 cattle.on the local market last wee's supplies |  |
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|  | Weres This might have exerted odow |  |
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|  | in a few instances; fine steers 5 |  |
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|  | Although the supply of sheep and lambs continued aswas slighty as ever, the demandwass,and prices declined |  |
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|  | was slightly less, and prices decinedfractionally on lambs. Best sold at $6 \frac{1}{4}$.to $6 \frac{1}{2} c$. and ordinary as low as $5 \frac{1}{3} c$., |  |
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|  | while sheep ranged from 3ic. to $4 \ddagger \mathrm{c}$.. |  |
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|  | $\begin{aligned} & \text { Potaloe } \\ & \text { prices } \end{aligned}$ |  |
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|  | $\begin{aligned} & \text { Grices Mountains be } \\ & \text { carloads, on track. } \end{aligned}$ |  |
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|  | 16 c frozen; ducts were 12 c . to 14 c ., andfor frome and fowl. 10 c . to 12 c . |  |
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|  | United states, brought in from Chicag |  |
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|  | of 3 c . per dozen, and express charges$3 \frac{1}{2} \mathrm{c}$. or freight charges of $1 \frac{\mathrm{t}}{\mathrm{c}}$. Can |  |
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## IMPERIAL BANK OF CANADA mariered 1875

## SAVINGS DEPARTMEN

 paid at hisheit curc ent rate from pard at hep depusit.date of ent rate fron
Farmers' sale notes discounted. Branches throughout the Do
the gencral impression here last week was
that prices wo.ld not dicline any fur20c. to 21 c . per th., held stock being 21 c . o 24 c ., according to quality. while dairy
olls were 18c. to 19c., and tubs 16 c . (heese.-Colored Ontarios, 13c. ${ }^{2}$ Grain-The market for oats was frm last week, but trade was not very ac
Tive. Western, No 2 oate, 51 c . to $5 \mathrm{5}+\mathrm{c}$ c.; extre

 toba feed bbarley, 5se. to 58 lac.
Feed. -Official quotations for bran ware Feed.-Official quotations for bran ware
from $\$ 22$ to $\$ 2 \&$ per ton, shorts being
$\$ 2150$. $\$ 2550$ oil cake and cottonIrom $\$ 22$
$\$ 21.50$ to $\$ 23.50$, oil cake and cotton-
seed being $\$ 32.50$ to $\$ 35$ per ton. seed being $\$ 32.50$ to $\$ 35$ per ton.
Hay.-Trices rather frmmer, at $\$ 11.50$ to $\$ 12$ for No. $\mathbf{1}$ hay, $\$ 9.50$ to $\$ 10.50$ for
No. $2, \$ 3.50$ to $\$ 9.50$ for No. $\mathbf{8 ,} \$ 8$ to
$\$ 8.50$ for clover mixed, and $\$ 7.50$ to $\$ 8$ $\$ 8.50$ for clover mixed, and $\$ 7.50$ to Seeds.-Market steady and not very ac-
tive as yet. dealers quoting $\$ 13$ to $\$ 14$ per 100 lbs. for red clover, $\$ 18$ to $\$ 18$
for alsike, and $\$ \$ .25$ to $\$ 6.50$ for timor alsike, and $\$ 5.25$ to $\$ 6.50$ for tin
othy, bag lots. Hides.-The market declined 1c. per lb.
ior hides, owing to poor quality and lack
of demand. Hides, 7c., 8c. and 9 c . per

## Chicago


 $88.25 ;$ stockers and feeders, $\$ 3.30$ to

 $\$ 6.75$ to $\$ 0.85$; packing, $\$ 6.75$ to $\$ 8.80$;
pigs, $\$ 5.25$ to $\$ 6.10$; bulk of sales, $\$ 6.75$ pigs, $\$ 5.2$
10 \$6.95.
Sheep and Lambs,-Sheep, $\$ 3$ to $\$ 6.25$;
lumbs, $\$ 8$ to $\$ 7.75$; yearlings, $\$ 5.60$ to

British Cattle Markets.
per pound, dressed weikht; refrigerator

Buffalo
Veals, $\$ 7$ to $\$ 9.50$.
Hogs.-Yorkers, $\$ 3.65$ to $\$ 7.05$; pige. $\$ 6.30$ to $\$ 6.50$. miohted clydesinales at aucOn Friday, March 26th, at Union
Stock-yards, West Toronto, as announced n our advertising columns in this issue. Consignment of 35 imported Clydesdale property of the well-known importer and
breeder. Mr. S. J. 1'rouse, of Ingersoll, ont.. will be sold, without reserve, to有 a high-class ofrering, combining breedund superior to any former offering of the
ind oner. which is saying a good deal.
wnen the prospect for continued high
for heavy horses, these young maraes uld prove a qood investment, as they
raise salable colts while doing tarm an raise salable colts while doing farm
ork, and colts that will soon pay for

THE FARMER'S ADVOCATE

 and 近utation At Frobisher, Sask., church union
is an established fact. In this town
were formerly two strugg
es, Methodischurchthere is but one, organized some-
what on the basis of a Congregationwhat on the basis of experiment is said to be giving very general satis-
faction - unanimity promoted, no faction - unanimity promoted, no
overlapping problems to be dealt with, just one prosperous church, in-
stead of two half-dying ones. An stead of two half-dying ones. axperiment so satisfactorily worked
out is likely to be copied. Already, several of the smaller towns of the vicinity are thinking of following the
example of Frolisher, and the chances example of Frolisher, and the chances are that, without or assembly, church union may soon be an accomplished lact over

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a moment's precaution to ascerta
the possibility of appronching train,- io (omesdo auay ith or motert leed ab
$\qquad$ sell liquor be granted. It is indeed
hopeful sign of the times that Pa hoperupert, the very newest of
Prince Ruptant places in that land so
the importan the important places in that land so
long looked upon as " the wild and long looked upon as "the wild and
woolly West," should have declared such sentiments.
The news that steps looking toProvincial Police force for Ontario are actually under way, will be rewho, because of recent calamitous occurrences in the Province, have be-
come apprehensive of the public come apprehensive of the public force will, it is understood, be the Attorney-General, under whom will
be a general superintendent and dibe a general superintendent and di-
visional superintendents: also a
alto strong force of secret-service men.
$\qquad$ statement made hy Mr. A. F. Jen-
kins, or Bultimore, at the annual kins, of Rultimore, at the annual
meeting of the Antional Association meeting of Prevention of Premature
for the
Burials, held at London (Fng.), to the elfect that a day or two before he which a shriek was heard from a collin hurrving on a fast trolley in to the mouth of a cremmeorium. An-
other slowaker dedared he had come acruss 1151 cases of persons who, ac cording to mellical testimony, had been interred alive. Even a few o
such instances are enough to im press the necessity of being absolute
ly positive that death has taker place before interment, or even em-
balmine, is permitted. No doubt balming, is permitted. No doubt undertaher's care, is dead enough
the fluid used hy undertakers in their work is a deadiy poison. Yet it i
not pleasant to think that ther may be a chance, in this way of safely said, burials take place too that death has taken place yet most
burials are hurried over uith an im-
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$\qquad$ the number of women too 20 per cen o spread in the I nited states; but
here need be little fear that it shall there need be little fear that it shall
across the borders to Canada. In the fominion there is the best possible feeling between the sexes in
mixed schools, and the men have so far proced themselves manly enough to meet the women fairly on this
equal ground. Even further, it is generally recognized that the pres-
ence of girls in a school conduces to the development of a spirit of jus-
tice and chivalry on the part of the culine element insures for the girls a teaching which embraces things of
world-wide interest, with little dan-world-wide interest, with ranches of mere "accomplishment," the " little
French, music, painting, and manners," which form, all too often, the
sum total of the teaching in girls' schools. This is the right conception. Sex is a merely physical attribute. Why
then, complicate it with thines that then, complicate it wh intlect People, Books and Doings People, Books and Doing The Wright Brothers, aeronauts,
will visit London at the end of the month, when each will be presented nautical society of (ireat Britain, in recognition of his services in the Mr. WV. P. Frith. Be, the veteran Enylish artist, recently celebrated his ninetieth birthday, in full health
of body and cheriuiness of spirit. He has led a life of marvellous ar-
tistic activity, and at the same time has found much pleasure in out-ofdoor exercises of all kinds, in travel Normal 'Teachoors' Associations, six and in study. $\begin{aligned} & \text { teachers in colleges and universities } \\ & \text { have signified their approval of the }\end{aligned}$ Eleven airships of various types measures adopted bo the simplified show at the Alasha Suhon-Pacific Fx. Xamara, MP., LL. I); Hon. James The $\begin{aligned} & \text { States; lir. (iladstome, } 1 \text {. IR. S., at } \\ & \text { one time a prominent member of the }\end{aligned}$

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march 18, 1909
cation Association adopted the " tho," ". "utho,", " thoro,", ". "horo
 In 1906 the Simplified Spelling
Board published a list of three hun Board words, which, in different dic-
dred
tionaries, and by different authors, are spelled in iwo or more ways Circular No. of the said Board,
published its approval of the form pubeach of these three hundred words,
of hich was precerred and approved by
whe which was precerred and approved by the highest
obtain a copy of the circular
sending a postal card bearing the re quest to the
B. 1 I Madison B., 1 Madison Ave., New York, A
samples of the recommendations, the samples of he find abridgment", ferred to " abridgement, "" "urbor ",
to "arbour," " center " to "centre," ". gage
remy
 In. January, 1908, a circular, pro
posing two general rules for simpli fication, was published. The first rule advised the dropping of silent
final "e " in unstrest syllables con taining short
til ", instead of reptile," ".
activ , instead of "active," etc. The sec-
ond rule applied to words ending in "ed," pronounced "t," which shoul
have the "t " restored or substi
 stead of "pressed," etc.
The third list of simplifications, published about a month ago, ad vises : First, that words having
". ea " pronounced short " e," should ea pronounced short "e," should
be spelled with "" e," as " hed,"
". welth" as " "a," before ". $r$ ". should be spelled
with " $a$," as "harth." ". haren etc. ${ }_{\text {Second_-Parts }}$ in "ed," pronounced ", ". d," should be spelled as " arme," " "curld," etc.
Third.-Words ending in unstrest ine," pronounced ". is," should be
spelled as " practis," "cornis." etc Fourth.-Words ending
pronounced "v," preceded hy " " 1 "
or ". r,", should be spelied as The changes are based on REASON,
ECONOMI' and AlLTIORIVY is a valid reason given for every change proposed. It is economica ject useless, silent or misleading
letters. There is the authority of the greatest scholars in word-science the adoption of the spelling rules that are applied in the improvements suggested.
Circular No. 23, March fith,
Cing to be had on request at the address
given atove, publishes the simplified forms of over three thousand words.
Adopting the changes recommended Adopting the changes recommended
would make the words easier for
children to leurn to spell and would economize the time of everyone who
has to write or print them.

## A Goodly Heritage to

 Have and to Hold
## Undar the caption, ./ The Size of Her !" the Sydney, N 13 .. Record

 Her!" the sydney, N. 13., 1Record than the United states by about178, (in): square miles, and has a
population of only sime population of only one-t welfth of the
latter country. Canada is as large as thirt United Kindoms of Grget
Britain, and equal in size to eighteen Germans. Canada is one-third the area of the British Fimpire, and half
of this aren is as vet not survered into fominces as yet not survesed
this oncquarter of of anea is occupied, and less than ..... Hrea is occupied, and les.
$\qquad$

THE FARMER'S ADVOCATE
tends over forty-eight degrees of lati- west ward stream, and think of the
tude-a distance equal to, that from life beiore them, and of the old fath- Rome to the North Pole," indeed, but for the mostman's knock-I hear also
A goody inheritage, ind
one involving very grave responsi- the call of the Church calling, callbilities on both sides of the Atlan- ing cor help to Church calling, wall-
tic, for it is ithis new the interests of the motherland from never since the Acts of the Apostles those of the daughter-lands overseas. was such an exciting opportunity,
Without venturing to touch upon such an inspiriting Church history as the political aspect of this vast this of Canada. I heard the other spiring words, uttered in the pulpit katchewan border, 1,000 miles by of Christ Church Cathedral, on the 100 miles, which, only two years
occasion of the late Jubilee Synod of ago, was practically uninhabited, The Thiocese of Montreal, by Dr. and now has over a hundred town name on both sides of the Atlantic. that everywhere the Church's prob-
Speaking of the prediction of the lem is how to follow the steels and prophet Isaiah, "The nations shall to follow the pioneer crowds set brightness of thy rising," he pointed prairie and forest and mine. After out the glorious opportunities await- the denression of stagnant life and ng the messengers of the gospel dwindling parishes in the Old Coun
throughout the length and breadth try, this is the sort of prospect that of our almost illimitable country. His hopeful words were perhaps ut-
tered more from the point of view ered more from the point of view of a minister of the Church of
land, but as they cannot fail to touch a kindred chord in the hearts of all alike to whom is dear the
welfare of the land of either their


Suggestion for a Small House
realize how that outlook stirs the at a great missionary gathering blood of a man from the quiet Old the East End of Old London:
Country. I was never before at the was one of the greatest honors birth of a national Church, and it is was liie that those dear, unknown to me a very exciting thing, even at
this distance from the chici seat of activity. For Canada is the joining line of two worlds. We are building
our church on the central highway of the earth, between the strong,
vigorous civilization of the West and vigorous civilization of the West and
the ancient nations of the Fast, now stirring in their sleep. I see China
and Japan coming from the slopes of the Pacific. Whether they be desirable or not, (God's l'ronidence has it lies far before you. Not a bit, sent them to us to give them His in Canada and Australia. There ing from Russian srann:, and the ture. I wish that I could have felt men of Central Europe coming for it my duty to go out into this wider freedom and a home. And especialEnglish the races of the old Land, English and Irish and seotch, blendthe door of my own parish church fore me the two ereat railway stations in my parish, the great gate-
wass of the West, and all through the season there is pouring through these gateways a continual stream of
emirrants, 200 , nou every season. emiurants, 200, ond every season,
morti, men, mostly voune, mostly of
our bith and hin, from over the sea

Appreciated in South Africa.
A reader of The Farmer's Advo-
cate writes to H. A. $13 .$, from
Shaftesbury, Dorset, England: "We ere do so much appreciate the Home Department of " The Farmer's Africa values the whole of the saper He says he finds so many useful ints suitable for their little colony He and his neighsend them, and enjoy it

## The Quiet Hour.

The Mystery of Fellowship.
The soul of onathan was knit with the as his own soul.-1 Sam., xviii., 1. - I count that friendship little worth Great longings that no word untold And passion-secrets waiting birth.
Along the slender wires of speech Along the slender wires of speech Some message from the heart is sent:
But who can tell the whole that's kut who can theant? whole that's
As the years pass, I wonder more and more over the mystery of fellowship, that more over the mystery of fellowship, that
strange and beautiful gift of God, by
which souls are knit which souls are knit together and find a
strange joy-a joy that is always wonstrange joy-a joy that is always won-
deriul and new-in "the open heart of a
triend that can understand without a friend that can understand without a
word." Surely no life is so poor as to be ignorant of the value of a real friend;
therefore I write on this subject very fiten, feeling sure that it is one which must appeal to all our readers.
Without friends, on whom the heart leans in happy confidence, lifo would bo sad and dreary, beyond all question. Our souls are continually reaching out
to the souls of others and drawing from to the souls of others and drawing from them the strength which can never be
found in our own personality. Union is strength. Fand men toget her and they wilk
be far stronger than the same number of be far stronger than the same number of
men working singly. In spiritual things men working singly. In spiritual things
the more a man gives away the more he the more a man gives away
has, ao the people who give freely to
others of their store of spiritual strength others of their store of spiritual strengt th
find themselves growing richer and
stronger in the act.
Let us examine this wonderful talisman of "fellowship" which can transifuure and glorify existence. which can make the
heart sing for joy in the midat of sordid surroundings, and without which no one can be really happy, though he be clothed
with purple and fine linen, and fare with purple
and
fine linen. and fare
every would be delighted to learn an easy and sure way of becoming rich, though-in theory-they are quite ready to own that
happiness cannot be bought with money. The desire for happiness is an instinct planted by God Himself in every human heart, and He has not given the instinct
without opening the way of satisfaction without opening the way of satisfaction
to it. Think back over your life and see if the brightest. sweetest hours in It were not the times of high and holy fullowship with other spirits akin to yours.
or with Him who is nearest of kin to each human soul, the only Friend who perfectly understands the thoughts which - The human heart asks love; but now I That my heart heth from Thee All real, and full, and marvellous ariecSon, so human; yet divine perfection Thrills gloriously the mighty glow !" I don't understand how anyone who beheves in heaven at all can put the oftenreveated question, "Shall we know each
Why, any of us would other there? here, if, entrance into that
rather stay her rather stay here, separation from our
new life meant
Iriends. Heartsick and lonely we should

lurn away indifferently fromin gates of
learl and golden streats, and care less
tere not to the "homes"- and home is
and nowhere else in carth
The higher wo climb in
reaching after God, the more sure we ald that love-which is the heart and soul of
ellowship-is the only thing which can fellowship-is the only hing tor "know-
make life worth living. As
ing each other," we can only really know hose whothers." weirits are ane anin toally know
thours-and
how mysteriously do we recognize how mysteriously do we recognize
kindred spirit This recognition of
triends is spiritual friends is spiritual even here. In one
sense of the word, we may say that we sense of the word, we may say that we
never see anyone. We can see the body.
but the person is hidden beneath ithe veil but the person
of the nesh.
I have not seen thee, though mine eyes
Hold now the image of thy face: Hold now the image of thy face
In vain, through form. I strive to In vain, through form, I strive to tr
The soul I love: that deeper lies.
A thousand accidents control A tousand accidents control
Our meeting here. Clasp hand in hand.
And swear to meat me in that land And swear to meet me in that land
Where friends hold converse soul to But, in another sense, we can see the
invisible person, can feel the texture o his spirit with our spiritual sensesse and are instinctively attracted or repelled by
his personality at the first meeting. But the friendships which glority life and in-
spire us with joy and strength and courspire us with joy and strength and cour
age are usually the old, tried friendhips
which have slowiy but surely woven themselves into our very being.
tellowship is restrul and satistying. may not show itself in many words-ther
is little need of speech when we are per fectly sure of our friends' loyalty, and
when "as in water. face answereth to is, indeed, a joy to those who foar the is, indeed, a joy to those who dear the
LORD to speak often one to another
but speech is only outward aiter all but sneech is only outward after all,
while fellowship is inward, and mysteriwhile fellowship is
ously unexplainable. ously unexplainable. The friend who
Rnows our thoughts before they are spoken, is always easy to converse with,
or to be silent with. Such a friend no or to be sident with.
only brings out the best that is in us,
but also brings out an ideal, possible but also brings out an ideal, possiblo
best which is not yet ours. Love is not blind, but rather has eyes so keen and
farsighted that they can see the oak far-sighted that they can see the crawling worm. It is very discouraging to have friendsfault, on the principle that it is wholesome to be told of faults, so that they
may be corrected. On the other hand,
ma it is grandly ingpiring to have friends
who see in you a beauty of holiness who see in you a beauty of holiness
which is not yours. Rather than disappoint thrir trust, youl until it becomes
that potential benuty unt
your rich possession. of course, I am talking of real friends, lone possible. A friendship of conveni-ence-a sort of partnership or conveni-
purposes - is like a marriage of contan ence, there is nothing sacramental or im-
mortal about it. Such 'friends" can be cultivated or dropped without much trouble or inconvenience: but crue rriendarting
not won so easily, and a real partion
with a real triend involves terrible pain. with a real friend involval I don't mean a dhysical parting. Sor inded by distances or death, are cersays: "The highest love is not starved by the absere tender and spiritual. with more of
more
the ideal in it. Ordinary affection, on a









 nonnsson gives in "Geraint and Enid," your friends, and trust your friends to all the thing good; something that youl can look harm to ourselves or others. If happi- grander service than that? if so. what be our aim and object in life, then the
heart will burt
st it
One friend in that path shall be
To secure my steps from wrong;
One to count night day for me, with pride and pleasure. I with pride and
flower lovers w or four kinds, at the most, but these are extra varieties, good, and worth going long way to see. I can recall a bed of
tuberous begonias that was well worth ten-mile trip to see. I would strongly advise putting in a
few trees that are out of the ordinary such as one or two cut-leaved weeping trees. These are very pretty in the wh cer, their white bark standing out and
blending with the leafless trees. blending with the lealess trees. Then
Sweidler Norway maple, a Catalpa Speck osa, a Camperdown elm, will be a great novelty, as will also a Huntington olm.
Ion't cover your lawn up with these plant them along the front of your home, or up the driveway to the house and warn. fill in the frame of your picture; then the house, with some shrubs and
flowers around it, will make your picture complete. Make your house and its sur roundings your picture, with the tree Now for a few shrubs: The first one 1
would name is. Spirea Van Houttii. This a hardy, beautiful shrub: flowers pure white, hanging most gracefully in small,
compact clusters. A graceful, beautiful shrub when in bloom, which is about the
$\qquad$ Barberry Thunbergii.-A dwart, compact
shrub with bright green leaves, changing n autumn to deep red, with scarlet fruit,
which is very ornamental through the Iogwood. Red Siberian.-A pretty, 10 Growing shrub, with bright red bark in These three, placed around the sides of
your house, with a few low-growing perennial fowers in front of them, will give your house a coly, comfortable, homelike
appearance. Plant them fairly close,
Plater bout three or four feet apart, the per or four or more, according to situation Another shrub we must not forget is
An The Hydrangea paniculata grandiflora-
This is a most beautiful shrub, blooming
and early September. This shrubg wants special care and treat-
ment, and when this is attended to you will have something you will be proud of four or six or more. Before setting these, take out about eighteen inches of
the soil, and then fill in with at least The soil, and then fill in with at least
one hal well rotted manure with the well mulched with good manure every fall. Keep the shrubs low down by cut-
ting well back, and don't fail to cut back the new wood every fall to two or three seen shrubs of this variety with over 300 them plenty of water. These few trees and shrubs are ali
hardy. and easy to grow. I would agsaip
urge Kepp your trees and shrubs well mulched the first two years. Non't allow
the chickens to scratch this all away: $\mathrm{x}-\mathrm{m}=\mathrm{m}=$ Some time in the near future I may
give yourr readers a list of a few good
rerennials. perennials. Every farmer's home should
the surrounded with shrubs and perennials; thry are so modest, homelike. and what
$\qquad$

The Licht at the Gate.

解基 aye a licht at our wee gate,

MARCH 18, 1909


I

The Ingle Nook


THE FARMER'S ADVOCATE


## Bright Housekeepers Appreciate DIAMOND DYES

Bright housekeepers all over the country are learning really to appreciate the true helpfulness of Diamond Dyes.

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dressing children is simple and inexpensive with the help of old dresses can be - waists can be me made bright and new and up-to-date. creations. -partly worn clothes can be ripped up children
skirts, waists, or something for the cher
faded curtains and portieres can be colored some pretty shade and made to look like new.
old spotted or faded ribbons can be colored and made exactly as fresh as new.
stockings, trimmings, etc., can be transformed into new fresh colors
-rugs and carpets can be made to look like ne
-hundreds of other things can be done with Diamond Dye -the new Diamond Dye Annual tells of these things and many more Diamond Dye


My Little Daughter's Spring Clothes.
"I send you a photograph of my little daughter and the Nor-
folk knit-iacket ! dyed and made over for her. I think it is only folk knit-jacket ! dyed and made over for her. I think it is only
right that I should write and tell you how much Diamend Dyes right that I should write and tell you how muchl giamend myes
mean to me. They mean that dressing my little girl and myself doesn't worry me any more the way it used to MMy little girr's spring clothes are all finished, and I only waists, one extra skirt and the jacket she has on in the photoserapl I made over things of her aunt's and mine and used Diannond Dyes. That's how she is one of the very best dressed gits in h.
Mrs. B. A: Cochool to-day."

Important Facts About Goods to be Dyed

Beware of imitations of Diamond Dyes. Imitators who make only one kind of dye claim that their imitations will color wool, si $k$, $f$ coton ("all fabrics")
equally woutl.
This claim is
 linen or other vygetablet fibres. For this reason we make two kinds of Diamond
Dyes, namely : Diamond Dyes for Woot, and Diamond Dyys for Colton. Mixed Goods, but are ceppecially adapled for Wool, Sllk, of other antimat fibres, which take up the dye quickly.
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Diamond Dye Annual

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 and unxions to protect them as far
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my den, I have three books, which 1 valuen very much, so much that 1 wish every
ooy and girl in lanada could have booklike them. They are: (1) "Bird Neigh
bors," which contains a full description With large colored plates, of nearly all time the smaller birds, at least. (many of which are collured) of birrds nests, and birlss "Cgbs, with full written
descriptions of each. (3) "Guide to the
with Wild Flowers"-a ine volume, with de scriptions of the wild fowers, accom
panied by pitctures (.5.ome colored)
each kind.
I.ach of (hese books is


 Nnd une of inese havar euch, we w.

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THE FARMER'S ADVOCATE




The Golden Dog
(Le Chien D'Or.)
A Canadian Historical Romance.
Copyright, 1897, by L. C. Page \& Co. (Inc.)
(Serial Ritesta Securred hy the W. m. Weld Co., Ltd-
CHAPTER XI.-Continued.
Lady de Tilly listened uneasily, and
said : Don't quarrel with him at all, Pierre Philibert! Judge him and avoid him, as a Christian man should
do. God will deal with Bigot as he deserves; the crafty man will be
caught in his own devices some day." caught in his own devices some day. too polite to insull unyone,", re marked Le (iardeur, impatient to
defend one whom he regarded as a friend. "He is the prince of good
fellows, and not crafty, I think, but
all surface and sunshine." " You never explored the depths of
him, Le Gardeur," remarked La
Corne. "1 grant he is " Corne. " 1 grant he is a gay, jest-
ing. drinking and gambling feliow in
company ; but, trust me, he is deep company; but, trust me, he is deep
and dark as the levils cave that 1 have seen in the oltawa country. It
goes story under story, deeper and dceper, until the imagination loses
itself in contemplating the bottomless pit of it-that is Bigot, Le Gar"My censitaires report to me," re-
marked the Lady de Tilly, "that his commissaries are seizing the very
seed corn of the country. Heaven knows what will become of my poor people next sear if the war con-
tinue !., "What will become of the Prov-
ince in the hands of Francois Bi-
got got ?" replied La Corne St. Luc.
"A They say, Fhilibert, that a certain great lady at Court, who is his part
ner or patroness, or both, has ohtained a grant of your father's se questered estate in Normandy, for
her relative, the Count de Marille.
Had you heard of that, Philibert? It is the latest news from France." like
aim
my my father! "' And how does your fother ". Mv father is a true philosopher;
he takes it as Socrates misht have taken it he haurhs at the Count de Marville, who will, he says, want to
sell the estate before the year is out to pay his debts of honor-the only
debts he ever does pay." " If rigot had anything to do
with such an outrage," exclaimed Le
Gardeur, warmly. "I would renounce him on the spot. I have hard Bi-
got speak of this gift to De Marville whom he hates. He says it was all La Pompadour's doing from first to
last, and I believe it.".
"Well," remarhed La Corne, " $13 i$ got has plenty of sins of his own on the day of account; without reck-
onine this among them."

Colorings that make Home look Cheerful $\prod$ Cheerfulnesest is as inherent as it is - in certain temperaments. seem to have in them the very microbe of depression. No one could long be cheerful in a
room painted black for instance room painted black, for instance.
And, no one could long resist the cheering, comforting uplift of a log-fire burning brightly in an open grate.
The dreary color of "A gray da creeps into one's spirits and depresses them, just as surely as the golden-yellow color of
gladdens.

These subtle influences of Color are of much greater importance in making the Home feel cheerful, comfortable and restful, or gloomy and irritating, than
we are likely to at first sight suppose. But, any Home-maker, who will thoughtfully read Brightling's new book
entitled "Wall-Paper Influence on the entitled "Wall-Paper Influence on Home" is pretty sure to discover a few
things on this subject which he would gladly pay many times its price for. on Color, covers the Influence of Design upon size, width, height, dignity, or cosiness, of a room.

The subjects throughout have been treated in a simple, untechnical way understood, and ready to apply toward
inexpensive and effective decoration of hexpensive and effect Published by the Watson-Foater $\mathrm{Co}_{\text {a }}$ Ltd. (Ontario St., East, Montrenl), and
sold by mail, Cloth bound, at twenty-five sold by mail, Cloth bound, at twenty-ald ents per copy, or
dealger at same price.


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ers are onilged to advertise a new machine every year on acco nt of short machine. The MAGNET, because of being built on mechanical lines, with solid
stand, square gearing, the same as is used to drive locomotives, threshing machines and heavy work of every descriptiond
the large bowl suppor ed al both end (cannot wobble and wear), the skimmer
in one piece, giving perfect sklmming. in one piece, giving perrect skimming, being easy to clean and turn (childre
operate it), all parts strong and rigid, her IS no wear and no repars. Ther at the yearly changes in the other machines and
bis bills for repalis bis bllls for repalis. It is very easy to
account for the difference, because the account for the difference, because the
MAGNET standard machine is 40 -gallon size, which has stand and gearing and all from parts stro, wh ch are made from large gallon size. How different from chers, whed down to sult the price. A skimned-down machine can be old for very litile. Is it cheap, cr can it be good? If so, Why the frantic changing
MAGNET stands the test of wear. Can you afford MAGNET stands the test of wear. Can you affor

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 Wie foritit odty. Autuan Depp. It

Toliton Bros., Ltd., Guelph, Ont.

[^1]The loud report of a cannon shook the Castle of st. Louis
the windows oi the room, and died atway in long-tppeated ectloes do la calissonicre,
the distant hills.
a number of olticers of rank, "That is a sional for the Council a number of olticers of rank,
oniform, was slowly pacing . A soldier's iuck: just as we were the Castle of St. Louis, waiting
going to have music and heaven, we the Council of War to are summonest to field, camp or coun- the Council of War to open; for,
though the hour had struck, the
cil." The gentlemen rose and accom- tendant, and many other hich
panied the ladies to the drawing of the Coloniv, had not yet room, and prepared to depart. Col-
onel i'hilibert took a courteous leave of the ladies of Tilly, looking in the
eves of Amelie for something which, had she not turned them quickly upOn a vase of tlowers, he might have
found there. She plucked Sound there. Slucked a few
sprass from the bouquet, and handed them to him as a token of pleasure at meeting him again in his own
land. ". Recollect, Pierre Philibert!'" said
the Lady de Tilly, holding him cordially by the hand, "the Manor House of Tilly is your second home.
where you are ever welcome." Philibert was deeply touched by the genuine and stately courtesy of the
lady. He kissed her hand with grateful reverence, and, bowing to
both the ladies, accompanied both the ladies, accompanied th
Corne St. Luc and Le Gardeur to the castle of St. Louis. dow, resting her cheek upon her gentlemen proceed on their way gentlemen proceed on their way to
the castle. He mind was overflow
ing with thoughts ing with thoughts and fancies, new,
enigmatical, yet delightful. Her nerv ps
ous manner did not escape the loy ing eye of her aunt; but she spoke not-she was silent under the burden
of a secret jov that found not vent in words.
Suddenly Amelie rose from the window, and seated herself, in an im-
pulsive way, at the organ. Her fin pulsive way, at the organ. Her fin-
gers touched the kers timidly at gers touched the kevs timidly at
first, as she began a trembling pre
lude of her own fantass. In musi lude of her own fantasy. In music
her pent-up ferlings found congenial expression. The fire kindled, and
she presently burst she presently burst out with the
voice of $a$ seraph in that glorious psalm, the 11 Cith
.. Toto pectore diligam
I'nice et Dominum colam Qui lenis mihi supplici
$\qquad$ Aurem qui mihi sup;icici,
Yon duram dedit: hunc ego Von duram dedit: hunc ego
Donec pectora spiritus
Pule
$\qquad$ The fady de Tilly, half-guessing lay at anchor in the English cruisers the truth would not wound the the broad river swept majestically
susceptibilities of her niece by ap. round the loft cape


Chateau St. Louis.
Cornt do la Galissoniere.
The Castle of St. Louis, a massive flanking towers, rose loftily from the brink of the precipice, overlookng the narrow, tortuous streets of the lower townl The steeple of the toires, with its gilded vane, lay
beneath the feet of the observer he leaned over the the observer hat guarded the gallery of the Cha
eau. A hum of voices and dense sounds rose up from the market of Notre
Dame, and from the quay where ships and bateaux were moored. The cries
of sailors, carters and habitans in thick medley floated up the steep
cliffs, pleasant sounds to the ear of the worthy Governor, who liked the honest noises of industry and labor Academy. lay at anchor in the stream, where
the broad river swept majestically
hestroyed in 1834. Almost upon the site of this old chateau now stands the
('hateau Frontenac.
Faring io do so. so rose quictly of them, a newlyarrived king's ship. entls around Amply, when she fin streamers, floated proudly, like a swan amongy a tock of of tall, like
1.e (iardeur, as an officer of the gar Commandant, while La La
Corne s. . Luc and Colonel Philitert
Lormetied to the gallery, where Luc and Colonel Philibert
rowed of to the gallery, where a
notions were now assembled. and took his arm.


Important to Farmers White cap yellow dent seed corn.
Early amber sugar cane seed. Buy corn on cob and stri
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ant present offering shows $100 \%$ vitality by actua EDGAR M. ZAVITZ, Coldstream.




















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 Nome $\frac{\text { aiper Man }}{\text { anter }}$

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B. F. BELL, DELHI. ONTARIO
 Ren wid

 Syracuse. $\mathbb{H}$ armion finle



## Married Man Want.d wery,uce bs

 Gellintion G.i. $\underset{\text { GEO. D. FLETCHER, }}{\text { Binkham PO. O }}$
trade, and the well-being of all the
King's subjects in New France. And one more striking portrait was there worthy to rank among hce statesmen and rulers of New France -the pale,
calm, intellectual features of Mere Marie de l'Incarnation, the first Sperior of the Ursulines of Quebec,
who, in obedience to heavenly viswho, in obedience to heavent new colonists, and who taught her who were destined to become the future mothers of New France.

## Current Events.

The Parliament of Iceland is ask-
ing for complete separation from enmark in all government affairs. Gileat Britain has taken over the quez, in Portuguese East Africa. A scheme is afoot to buld a great
union station on the site of the
Windsor and 13onaventure stations Windsor
Montreal

An Order-in-Council has been passe ion of black bass, maskinonge and
The Mohammedans in India are sking for complete separation from
he Hindus in all stages, from the petty Rural Boards to the Legisla-
tive Council.
Mr. J. A. D. McCurdy last week ce on the Bras d'or Lakes, C. B. n his aerodrome, Silver Dart. Du
ing one ascension, his machine mad
miles in 11 minutes 15 seconds


## QUESTIONS AND ANSWERS. 

 3rd. - In veterinary quest ion the symp-
orus especially must be fully and clearly
and at be otherwise sutistactory rephies can-
ot iven.
4th. When a reply hy mail is reauired
or not be give
4t th. When
ungent
on on
expense.
2. It
ex
2. It is natural for the combs of some
chickens to droop.
OBTAINING PAYMENT OF NOTE.

OBTAINING PAYMENT OF NOTE A has a note against B for so much
B's wife backed the note. In case of $B$ dying without a will, where would A ge
SUBSCRIBER his money? SUBSCRIBER. Ans.-In the event of the note being
dishonored by b, by non-payment, the dishonored by B, by non - payment,
matters of notice thereof to his wife or hor erate and the usual protest must
promptly attended to; and then, if nece promptly attended to; and then, if neces
sary. she may be sued, or, it deceased sary. She may he sued, or, it deceased
then the action might be brought anainst
her administrator. In case letters of her administrator. In case letters o
administration are not promptly tahe administration are not promptyinee,
out by the husband, or his nomine,
as a creditor, might apply for same. UNTHRIFTY BULL. Have a bull that will not eat only a
little; a valuable animal. tried prescriplittle; a valuable animal; tried prescrip
tion given in "The Farmer's Advocate" tion given in "The Farmer's Advocate"
in a January number, but seems no bet
ter. Flease advise.
A. J. ter. Please advise.
Ans. - Without fuller particulars, A. Jo re
ply could be made to this question that ply could be made to this question Give the
would not be largely a guess.
bull exercise, place no more feed before
 of bran and one or two handfuls of oil
cake per dey. if he does not thrive, cake per day.
have a competent veterinarian examine
him, and if he thinks fit, apply the tuberweed IN CLOVER SEED I raised red clover last year. There is
some wild timothy in it. Could that be cleaned out? for buckhorn, rib grass, or English plantain. A bulletin issued by the United
States
Department of Agriculture, describes a simple method of separating rib-
grass seed from clover, by taking grass seed from clover, by taking ad
vantage of the mucilaginous character of the seed of this weed. The infest
clover seed is moistened with water, th clover seed is moistened with water, then
dry sawdust is mixed with it. The sawdry sawdust is mixed with it. The saw-
dust adheres to the sticky rib-grass seed. dust adheres to the sticky rib-grass seed.
and a fine sieve will then retain it, while
allowing the clover to pass through. allowing the clover to pass throug
There are also screens now made There are also screens now made
fanning mills which have long, narr fanning mills which have long, narrow
perforations, through which the rib-gras
seed will pass, but which will retain al CARBOLIC ACID FOR ABORTION
CAR Supposing abortion is in the herd,
there any benefit in feeding carbolic acid

monchs, as a preventive ? If so, ho
much per day would it be safe to teed
pregnant cow? How long should its ut
be continued.
SUBSClRIBER? Ans-- - Some stocknen have faith in feed
ing carbolic acid as a arreventive of con
tagious abortion, notably
tagious abortion, notably sr. weo. Whic
who recommends giving 25 drops twice
dav, diluted in a rint of water, a mixed with bran or ount of water, a for th
days. then ship) two or three davs, a repeat for two or three days. Keep $t$
uip for two weeks, and repeat at inter

hens Eating egas - combs DROOPING.

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## ■ ค A AUCTION SALE OF <br> - U. C Clydesdales, Hagkneys, Welsh Ponies

On Wednesday, March 31st, 1909, at 2 o'clock p. m., Sharp.
There will Be Offered for Sale by 0 . Sorby, at His Farm, Lot 8, Con. 5, in the Township of Puslinch, the following Horses

CLYDESDALES
white face and leek. White face and leg, 2. The stallion, "Scotland's Model," by "Acme " 4 off, dark brown, white b. The mare, 4. The mare, "Marinetta," by "Benedict," foaled June 26, 1906, brown,
white st ipe on lace, hind fellock ky white. white st the mare, " Phillipa," by ""Prince Sturdy," "foaled April 25, 1906, white
5. The 6 The mare, "Corona," by "Baron Mitchell," foaled May 8, igo6, bay, strip on face, white fore foot and near hind ley.
 famou son and an exceptional producer, having been suld for a large sum to a
Chicuko party, and a larger sum paid to have him relurned to Scouland, where Chickyo party, and a larger sum patid to have him returned to Scoviland, where
he is ectio ink his sire's record. The certiticates of reaistration will be produced at the time of sale.

## PONIES:

". The chestnut mare "Dinarth Mary," favaled 1006 by "Eddwen Flyer,"
with filly foal art first, foaled March tuh, 1 , 1909, by ""Dinarth Hero." with hily toal at hirst, foaled Matrch thh, 'goo, by "Dinarth tero,

The back mare, "Uet, "Oaled 1901, by "Mountain Pony "
The cerifificates of registr tion with the Welsh Pony and Cob Society of the first wo or thee eponier, which are imported animals, will be produced at the time
of sale. Thene animals were carefully selected for importatiun, and are show of ale. Theere animals were carefully selected for importation, and are show
animals of HIG QUALITY. animals of HIGH QUALITY.

## HACKNEYS:

The Hackney mare, "Bygrave Diploma," Foaled 1994, chestnut, white
hind and near fore ley, sired by Doplomatist, in foal to Warwick Model, a purehred revistered sire of extra auality, who has been verv successful in stud, also twice champion Hackney Stalion at London, Ont., Exhibition, and ala, irst at
the Toronto Spring Horse Show. The certificate of registration of this mare will be

$$
5-2+2-1
$$

2. The aged chestrut Hackney mare, "Langton Lily," white blaze and four white legs, in foa to "Warwick Model,". This mare has been repeatedly a winCo.; Cup for bett bred mare, and Chal enge Cup for Beet Hackney at Tunbridge Wells; Ist and Si ver Medal, Royal Counties, and in Canada has been twice Champi in Hackney Mare at London, Ont. This mare is a producer of winners
both in Enyland and Canada.
3. The chestrut mare, "Brentwood Queen,"," off hind foot white, star on forehead, foaled 190, and is by "Middleton King." Thiy mare was only sho wn
twice, and was first each time. She is a superb mare, with splendid action and beautiful conformation, and is supposed in foal.
4. The aged dark bay Hackney mare, "Stella"" star on forehead, and white off hind fout, by "Square Shut," out of celebrated "Miss Baker," in foal to "War wick Mvolel." This mare is a regular breeder and a producer of foals of
great quality. great quality
 June "th, , opor, by "Jubiliee Chief." (imported) out or the famous mare, "Stella,"
above mentioned, is un foal to "Warwick Model." This mare has extra fine and above mentioned, is in foal to "Warwick Model." This
rugged conformation and has held regularly to service.

Certificates of registration of the last three of these, with Canadian Stud Certifcates of registration of the last three of these,
and of the First English Hackney Sociely will be produced.


| gossip. |  |  |  |
| :---: | :---: | :---: | :---: |
| val jers |  | Uised in a tormer issue to take place at | six |
| March 31 st, as announced in our tising columns, the fine herd of 35 |  | Unien Stiock yards. West ororoto. | tor |
| arey catue and |  | 26ih, on which dave (wo important con- |  |
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| .llined |  | noted herdo ot 32 head of | bim |
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| farm, | mor mhar |  |  |
| ${ }^{\text {main }}$ |  |  | lithe |
|  | 0 | On Narch ist., new reyulations came |  |
| D surorsun |  |  |  |
|  |  | reculation- state that no brand Western horses or mules can be | , |
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THE FARMER'S ADVOCATE
It Won't Rub Off? Cooer the Walts Now with ime comes. When redecorating you don to i t have to scrape
to time comes. When redecorating you don thave to scrape
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tints last longer, too, as they are less iable to fade or discolor. Alabastine liable to fade or discolor. Alabastine does not rub off, crack or peel. Our free book, "Homes, Healthful and Beautiful," explains fully. Write for
a copy. Many interior decoration schemes illustrated A5 5 . package Alabastine 50 c, at the hardware store. THE ALABASTINE CO.. LIMITED. 31 WILLOW STREET, PARIS, ONTARIO
00000000000000000000000000000000000000000000000000000000006

TRADE TOPICS. Mr. Geo. Keith. Toronto, the old and
reliable eoed merchant, advert ises for sale roliable seed merchant, advertises for sale aeed odts of the most approved varieties;
also elover seed and Gold Brand alfalfa, the price of the latter being reduced by one dollar a bushel in the changed advertisoment this week. catalogue.

The Climax Cultivator, manufactured by the Frost \& Wood Co., of Smith's Falls, Ont.. commends itseif to the farmer wantmove and loosen the soil preparatory to
the sowing of the seed. It is a stiflhe sowing of the seed. It is a stif-
cooth cultivator, and with its pressure tooth cultivator, and with its pressure be reached. It is strong, substantial,
durable and easily managed.
The same durable and earily managed. The bame
company manufacture the Champion seed company manuracture the with ball-bearing hubs in a dust-
drill. with
proot case, easily operated and accurate proof case, easily operated and accurate
as to amount of seed sown per acre. as to amount of seed sown per acre.
Frost \& Wood mowers and binders have also made for themselves a first-class reputation for strength, ease of draft,
efficiency of work, and durability. Farmefficiency of work, and durability. Farm-
ers needing anything in these lines will ers needing anything in these lines will
do well to write to the company for their catalogue, or consilt their agent in the
neareat town or city. Writing advertise "Save the Horse" in this issue the manager of Ajax Decorating C New York, says : ing through the park, made a mistep and fell on the macadam road, cutting
both knees very badly. They healed up after some time, but left both knees very large and unsightly. We tried in every
way to get something or somebody to give us something to remove the eyesore, but did not succeed. Doctors
claimed it was too long-standing an claimed
nothing
it was too long-standing and
could remove it. 'Save the Horse' was recommended to us. We pro the entire contents, we could see the en
larged parts gradually disalt larged parts gradually disappearing, so knees are in their normal stat to-day the ased it on a very bad splint. and tha
also disappeared. In all the treatmen up one day. We found out that it wil
do all that is claimed for it.

GOSSIP
Sap buckets are in season, and th Ontario advertise a snap in a jub lot guaranteed satisfactory. hee the adver shorthorns Axl shlmothlizt



## The EDISON PHONOGRAPH

It entertains you with a song well sung, a piece well played, an amusing dialogue, or any of the other things of which the Edison Phonograph is so easily capable.

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## the New Amberol Records

which are Records that play twice as long as the old Records, and a great deal better

There is an Edison dealer near you who will be glad to show you the Phonograph and enable you to hear it.

 Wo Want Good Live Dooler, to oell Edion Phonorraphy
 National Phonograph Company, 112 Lakeside Ave., Orange. N.J. U.S.A.

Subscribe for "The Farmer's Advocate and Home Magazine." $\$ 1.50$ per Year in Advance.

GOSSIP.
Mr. Rotbert Miller, Stouffille. makes a change in his advertisement and females, and Shropshire and
holsteins at auction.
On March 24 th, Mr. John Hill, of
boro Ont. will sell by auction.
vertised in this issue, 20 head of regls tered Holstein cattle, including 11 mad
ture couss. and an number of heiers and
calves. Trains will be met at tenfeld Station, G. T. R., by notifying Mr. Hill

Mr. Wm. Smith, of Columbus, Ont
Writes: writes: "I made a nice sule of eighteen
Storthorns the other day to nests. Hell
Bros \& Reynolds, of Loodi, Wisconsin. Bros. \& Reynolds, of Lodi, Wisconsin,
and I understand that Messrs. Geoorgo \& Stant on have already taken most of thes
over, and some of (hem may over. and some of them may go ion
their sale on April 9th. Still have some young bulls on hand.


QUESTIONS AND ANSWERS Miscellaneous.
knuckling
I have a horse that kuyckles on hund
feet. He tis all ribt when going. but
when he stands he seems to go orwarl when he stand
on knuck les. Ans.-Repeated blistering of the weak
oints is the only onfective treatument known. This, of coursel means giving
the horse rest for several weeks. II he he
nust work the hest realment. sust work, the best trentment is shower-
ng with cold water irequently, and apr inlying bandages when in the stable
CORN IN HILIS CORN IN HILLS-POTATOES
HILLS OR DRILLS? 1. In planting corn in hills, how fart
thould they be arart. each way; also how






$\qquad$ raced have grown potatese in hillts.

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## THE "DILLON" <br> Hinge - Stay Fence has the greatest strength



Our "Monarch" Stiff-Stay Fence The Monarch is easily th
peer of all stiff-stay fences. All No. 9 hard-drawn stee
When making the Monarch the lock is driven diagonally
with the laterals, instead of being applied by heavy DiRECT pres-
sure at the point of crossing. This heavy direct pressure is re-
sponsible for much of the brokensponsible for much of the broken-
wire troubles of ordinary fencesComplete explanation f
nished in free booklet. If
are wise you'll write for a ished in free booklet. If
are wise you'll write for a

WILL YOU ACT AS OUR REPRESENTATIVE? You can quickly work up a big DILLON HINGE-STAY
fence trade in your locality with
MONARCH STIFF-STAY. fence trade in your locality with MONARCH STIFF-STAY. their bumper year.
wise to ioin them no No other agent has two such
superior and different fences a
The OWEN SOUND WIRE FENCE CO'Y, Limited. Owen Sound, Ontario.


STUMP AND TREE PULLERS


CANADIAN SWENSONS
Lindsay. Ontario. Canada.

HAD BACHACHE. Was Unable To Do Housework For Two Years

Many Women Sufter Untold Agony From Kidney Trouble.
Vory often they think it is from so-called "feryale disease." Thero is loss "fomalo trouble" than they think.
noss, neorvousness, irritability and a drag. noss, norvousness, irritability and a drag,
ging down feeling in the loing. So do men, and they do not have "female trouble." Why, then, blame all your trouble to Most of the ro-oalled "female disorders" aro no more or less than "ENidney dibordera, and can be easily an
Doan's Kidney Pills Mra C. Dupuis, Belleview Village, N.B. writos: "I was unable to do my houne-
worly for two yeare on scoount of backcobe. I could not get up the staira. Doan'
Kidney Pills cured me permanently after Kidney Pitls cured me permanently aftor doctors failed to even relieve the pain.
can highly recommend them to all sufforari ean highly recommen
from Eidney tronble.
 at all doalera or mailed direct on roosip
of prico by The Dom Kidney Pill Ob of price by T
Toronto, Ont.

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| :---: |
| For Sale: Imported Clydesdale Stallion ADONIS (10953). <br> sired by the noted Baron's Pride (9122). Bay in this vicinity. Five and a half miles from Me. Forest Station, G. T. R., or T. R alstein and miles tron <br> P $0 . \mathrm{Box} 238$ John McDousall, Jr Mi. Forest, Ont. |
| Seed Barley Province since first distribution in 1906 . JOHN ELDER. Hensall. Ont |
| He-These giasses give me a very in tellectual appenrance, don't you think? she-les. Iren't they powerful. |
| loes your wife ever ask your advice about anything?" asked the impertinent relative <br> "C'ertainly, answered Mr. Meeicton |

Need no Longer Fear the Knife

Gravel Easily and Natural ly Cured by Dodd's Kidney Pills.

Joseph Pelrine, who Suffered the Tortures of this Terrible Complaint for Nine
Months, tells how the old Reliable KidMonths, tells how the old Re
ney Remedy Cured Him.

March 15.-(Sincial),-That you need no
1, inger fear the knie if troubled with
gravel or other urinary troubles is the longer fear the knie ii troubled with
gravel or other urinary troubles is the
glad news that Joseph Pelrine, a well-
Lnuwn clad news thet Joseph Pelrine, a well-
hnown youme fisherman here, is telling his



Culty himmey Irils cure gravel by

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 Mcouraged at the manner in which their
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$\qquad$ RELD'S SHORTHORX SAIII:
Notwithstanding the stormy weather notwithstanding the stormy weather
and bad condition of the roads, and also
he fact that the Woodstock sale was be
 Ctending, the sale of soung iulls and
eifers of 1 H He Reid $\&$ Sons. Pine
Pine
 et he biding was brisk from the start,
specialy in inlus. and anumer more
of the sort ourered collit have been dislosed of at fair pricess Ur.J.Jom Purvi
loctioneer, opened the sale will an ad
und he complimentine the Uesss. . Renid o
 nat he had driven over thirty miles of of
ad roads to she the herd and the equip-
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THE FARMER'S ADVOCATE


EVERY Canalian farmer who ex- Lock Shingles in use for more than thus causing a leaky ron
pects to build or re-roof his ten years show no sigus of wear. Safe Lock Shingles
hous house or barn should write us To Thay we are using better mater. blown off, nor can they be pulled
to-day for details of our Free ial in their construction than ever, apart by warping of the sheeting to-day for details of our Free
Lightning Insurance Policy in
 ction with Safe Lock Metal connection
Shingles. We gi

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We gi
also made several improvements in this page, and you will be convince
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galvanizing is heavier. We have Study the small illustrations on
also made several improvements in this pay

Ne can afford to make it because
know absolutely that Safe
know absolutcly make it because we
Shingles will insure safety from
Shingles
lightning
It is absolutely free. You do $n$
have to pay one cent for this prote
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Insuran
tion, either directly or indirectly. ${ }^{\text {Incec }}$
Insurance records show that nearly
one-half the fire losses on barns in
one-half the fire losses on baras in
C'anada result fyom lightuing. This
C'anada result from lightming. This
loss, running into the hundreds of
thousands of dollars, can be entirely
prevented if Safe Lock Shingles are
used.
statement with a Free Insurance
Policy
Policy payable under its terms in cash.
Safe Lock Shingles are sold at the
same price as shingles known to be
inferior in quality of steel, galvaniz
inferior in quality
ing and construction
We have been manufacturing Safe
Lock Shingles for over ten years, and
roofs laid when we started in business
are still "une
are still "as good as new," to quot
from hundreds of letters
from hundreds of letters we have on
file in our office from our pleased and
satisfied customers.
In all this time these roofs have not
cost one cent for repairs of any sort
In all these years no building cov
In all these years no building cov
ered with Safe Lock Roofing has eve
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been destroyed by lightning
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SAFE LOCK SHINGLES are the only shingles that
Give you a positive guaranty against Lightning, backed up by a policy signed and guar anteed by the manufacturers
2. Meet fully the rigid require ments of the British Govern ment for Public work.
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4. Have three (3) thicknesses of metal along upper edge at point of greatest strain.
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6. Have edges galvanized after being cut to exact size.



Hereford Bulls!
8. $x^{2} x^{2}=$
H. D. Smith, Hamilton, Ont.

Clydesdale Stallions For sate
 lear. Adres. ROSSITER, CRAMPTON, ONT.
Subscribe for "Farmer's Advocate"
 the Ontario Wioter Fair trials, at Guelph
and which are ${ }^{\text {probably not a fair repre }}$
sentation sentation of the best milking Shorthorns,
since. with few exceptions, cows of this since, with few exceptions, cows of this
breed are not milked, but allowed to
nurse their own calves. The official reports of the Guelph Show
for the five years, 1904 to 1908 , inclusive, show that eight of the prizewin-
ning Shorthorn cows yielded an average ning Shorthorn cows yielded an average
of 47.50 lbs. milk, and 1.7 lis. buter-
fat; equivalent to 1.9909 , or practically
and 2 lbs. butter per cow per day. The
highest individual record of a cow in the
trials mentioned was 54.28 lbs. milk, and $2 \frac{1}{3} \mathrm{ls}$ s. butter.
BUTTERCUP FOWLS. I have read that there is a new breed
of chickens known as "Buttercups." Do you know of such a breed? Are they 8 s
far ahead in every respect of all other breeds as some would have us believe? Ans.-Wm. McNeill, of London, says
that he has read of the Ruttercup fowls. that he has read of the Ruttercup fowls,
but in all his forty years' experience h
never ran across them. If they wer superior. they would have forged ahead
According to a description of the new oreed appearing in print recently, some
of them have legs of a willow-green color of them have legs of a willow-green color
while others have them of a yellowish
color. The comb is their peculiar char acter
sing
on on top o
bling a ish-red, to a red. with black main tal
and wing flight feathers, very much th
color of the Rhode Island Red. Weigh
col anner of Golden $\$$ spangled Hamburg
Weight of hens, $4 \frac{1}{2}$ to $6 \neq 1 \mathrm{lbs}$. PREPARING FOR POTATOES
PEAS AS GREEN MANURE. 1 I I have six acres of light, clay loan
which was manured last Which was manure
toes. I intend to soru pens and plo
them down for green manure, and put i potatoes again this year How do yo
think this will do. or do you think ,
will be too rich?
 2. Which is best to plow down for
mature, cow preas, or ordinary field peas
W. T. C.
$\qquad$
$\qquad$



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 Stewart Horse-clipping and Sheep-shearing Machines

Knives Sharpened and Returned Promptly. Before fitting up your stable write us for in-
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Our knowledge, gained by years of experi-
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On Wednesday, March 3Ist, I909,
The property of MR. S. J. LYONS, Norval, Ont.
35 pure-bred Jersey cattle and $\mathbf{1 5}$ hish-grade Jerseys, 50 head in all, includ35 pure-breat cow, Dinah of Lawnridge 127799, and three of her daughters, besides a number of other deep-milking and heavy butter producing cows, and heifers, the
produce of such cows. Also three good young bulls. Farm three miles from
年 Sale to commence at I o'clock.

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S. J. LYONS. Prop.jnt.

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## A WAR CORRESPONDENT'S NARROW ESCAPE



IF YOUVYE NEVER WORN


THE FARMER'S ADVOCATE QUESTIONS AND ANSWERS Miscellaneous.

CEMENT FOR STABLE FLOORLIME AND SAND FOR
STONE WALL.
 It take to floor a cow stable thirty-six
by thirty-seven feet? 2. About how much each of lime and
sand would it take to a cord of stone Tor lasement wall, 20 inches thick. We
intend to nse most all sizes of stone that
can be handled conveniently? Ans. -1.1 layer of two inches of con
crecte. mixed one of Portland cement to five of hich-grade gravel and sand, is sut-
ficient for stable noors, and even less


 stone is repuired for about 100 cubic feet
of wall. For every cord of stone, about oneeighth of a cord of sand is needed
This, of course, will vary with the quanThis, of course, will vary with the quan-
tity of stone used. Sand and lime are




## trade topic.





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 temporary construction was covered wit
J-M Astbestos Roofing. A brisk lire wa
buitt oo top of this, and it took on
hour and ten minutes before it did an hour and ten minutes before it did an
serious damage. This roofing is man
factured thy a reliable firm, havin
branches throughout Canada and Unite


BOOK REVIEW







Countless millions of out in warm weather. feeding on
by using A
wonderful soil fumi-
soil fumi
Fumigat-
ing your


You Fertilize! Why not Fumigate

The Soil? Slugs, Moths, Ants, Lice, Flies and Beetles live in

These millions live by feeding on and destroying

They can easily be killed, In The Ground,

## APTERITE

Fumigation is just as important as fertilization. As a rule, the more insects it contains.
APTERITE means bigger rops and absolute proection against Eeworms,

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Ormsby Grange Stock Farm ormstown. P. Q.
duncan moeachran pror.c.v.s.d.v S lmporter and breder ot
lighorlases pure-brei
CLYDESDALES. CLYDESDALE STALLION Rismg three year: breeding the best, and a barmoses doolititif. columbus P. o. oni

Shires, Shorthorns and Lincolns
 olnn Gardhouse $\delta$ Sons, Highfleld, ont. Dr. Bell's Veterinary Medical wonder
 please mention this paper.

THE FARMER'S ADVOCATE

QUESTIONS AND ANSWERS

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Miscellaneous
M,
c
    AN OLD MORTGAGE
A iather look a second mortgage on Us sons farm and let him hav
thrce years without interest. but but
wot careless and never paid anyNone
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, and the dops not want to pay unything,
aner needs it. as he is old a.ad
would like to get things straightened up.
Would that mortrage lee legal yel a Would that mortmane he legal yel, a ter
so long a time running without interest? Ontario
Ans--Probab'y not, as the matter stands at ,resents and the father would
do well to see a solicitor at once. and instruct him to arrange for what is
necessary to be done in order to huve tho
security put in proper shape. DANGEROUS DOG-YOUNG BULI
``` 1. What oats, when sown with goose
wheat, will ripen at the same time as the wheat?
2. A and 13 are neichhors came to vi
dog
dog \(\qquad\) 3. Is it legal to let a one-ypar-old bul
run in a pasturefield, lawfully fenced?
Ontario.




is all No. 9 hard drawn steel wire, well galvanized. "The
Tie That Binds" is the one lock that holds the fence without Tie That Binds"
Our book tels
ctie standard wieg fence co. of woodstock Limited. - woodstock, Onl. 6

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"THE PEOPLE STAND AND LOOK."

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NEW CLYDESDALE IMPORTATION.

B
 T. H. HASSARD, MARKHAM, ONT.

Clydesdale Stallions and Mares!


DALGETY BROS., LONDON, ONTARIO Stables Fraser House. Address correspondence to Dalgety Bros.,
Glencoe. Ont.






Commopondene Adidices DR. C. K. GEARY, St. Thomas, Ont
Ciydesdales and Hackneys wot have for sata ad


Clydesdale Stallion imy Clide revinered
getter. Cuming teven yearp

Just as you Insure] your Buildings.
The loss of a stallion represents ment of which comes in thandy to re-
place the lost animal whelher death place the lost animal whe her de
be due to accident or disease. On payment o' a small premium our Compa \(\mathbf{y}\) will insure yvur stal-
Ilon, as well as your Horses, Mares, llon, as well as your Horses, Mares,
Colts, Fillies, Bulls, Cows, Calves, Hogs and Sheep, against death by accident or disense
Booklet sert free on demand GENERAL ANIMAIS INSURANCE R. Nens, Pren.

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for Western Untario.Welling on St..Toronto \\
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Shoe Boils, Capped Hock, Bursitis ABSORBINE


FOR SAll: Three Registered Ciyd, sdal
 with lots of quality.
Hemming ford. Que.

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This New Picture of DAN PATCH I:55 in Six Brilliant Colors
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STAMMERERS

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SEED BARLEY In 1908 field competition won

TE The Sunny Side HEREFORDS
2
M. H. O'NEIL, SOU I HGATE, ONT Aberdeen-Angus Cattle

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WILLOWDALE SHORTHORNS
have for sale some very fine young stock bulls and heifers ready
breed. Descendants of Joy of Morning, Broad Sioth and
other noted sires. Also Chester White Swine and imported Clydesdale Morses.
J. H. M. PARKER, LENNOXVILLE, QUE.

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WHY NOT BUY A HIGH-CLASS SCOTCH SHORTHORN COW, Or a Helfer, Or a Bull. Or a Few Shropshire Ewes, Or a Few Cotswold
Ewes, Now, While You Can Buy Them Low? ROBERT MILLER, STOUFFVILIE, ONT
AN OPPORTUNITY Sioty ser vounc MAPLE SHADE FARM. ican price por a Two High-class Young Bulls VALLEY HOME SHORTHORNS and BERKSHIRES
Subscribe for The Farmer's Advocate

A Clydesdale stallion, rising three years dam by The Archer (imp.), and weighing 1,800 lbs., is advertised for sale by
Moses Doolittle, Columbus, Ont

The two-year-old Shorthorn bull. 1.anaster Victor \(=67976=\), a Toronto prize ancaster (imp.), dam Mabel of knowhead \(=4844=(\mathrm{imp}\).\() . is advertised for\)
sale by J. \& N. Mcl'hedran, Wanstead.
\(\qquad\) Horns.
Your miles north of Elmira, Ont....
he G. T. R. and C. P. R., in Waterloo the G. T. R. and C. P. R., in Waterloo
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conduct stock Schmidt \& Sons, whose splendid herd of
Scotch Shorthorns are always found in Scotch Shorthorns are always lound in
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Wedding Gift, Juanito, Eilvira, Nonpareil Wedding Gift, Juanito, Elvira, Nonpareil
and Golden Gem, the get of such welland Golden Gem,
known, high-class bulls as sunnyside
King. a son of the champion, Imp. Spicy King, a son of the champion, Imp. Spicy
Marquis; Imp. Proud Gift; Imp. Bandolier; Imp. Lucerne; Imp. Pride of Scol-
land; Missie Champion, and the present
stock bull, Imp. Greengill Archer. Mr. stock bull, Imp. Greengill Archar. Mr
Schmidt spared no expense in laying the
toundation foundation of this herd. They are an
excoptionally nice bunch, in good condi excoptionally nice bunch, in good condi-
tion, and are all eligible for registration
in the American Herdbook, and in the American Herdbook, and any of
them are for sale. Parties wanting some
Par real good one and two year old heifers
can find them in this lot. They have cals for sale two young bulls, one a red
also
yearling, got by Davidson's Rosebud Champion, and out of Imp. Juanita 10th
the other is also a red yearling, got by the other is also a red yearling, got by
Chancellor's Model, and out of a rimson
Flower dam. Here are a pair of low Flower dam. Here are a pair of low
down, thick, sappy young bulls, that call
be bought well within their value, and they are in splendid condition. Any-
thing in the herd is for sale. Schmidt is the inventor and patentee of
his system of cement stable fittings.
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boxes, partitions, water trough, floors. etc., are made of cement, thereby ensur-
ing stability, sanitation, cleanliness and safety, During 19os, Mr. Schmidt fitted
sith this system over fifty stables, and
with
so porylar has it a popular has it become. that orders that 1909 will reach upwards of two
hundred contracts to be installed. Write

TRADE TOPIC.
 death from various causes. Up to quite
recently this business has only been done to a very limited extent, but we would
now draw the attention of our readers
to to the advertisement of the General Ani-
mals Insurance Company of Canada
The representation of this company for The representation of this company for
Western Ontario has been placed in the hands of Messrs. Burnett, Ormsby
Clapp. Limited, who now advertise Owners of valuable stal-
lions and ons. orer pure bred stock can pro-
tect themselves against the chances of a ect themselves against the chancas of or
leal monetary loss by insuring their
learses for at least a part of their value
oorse
he neel The need of a good. strong, home com-
pany of this description has been felt for
lany wears., and we feel satisfed that many vears, and we feel satisfied thal
tuch a company will receive the warm
 the liward of Dicectors shows th.
revident to be Robert Ness. Howick
the well-hnown importer
 miself for many clape. Limited, intimately wa- con"ountr", that they have now in
"urated a , ivestock Insurance Depart nt of therr thesiness. which has been
n. Resor
ced in charge no Mr. Numish pull par


ROBIN HILL FARM


 Wm. Drmiston \(\delta\) Sons, Columus: Ontario

GEO. AMOS \& SON, Moffat, Ontario
 Tomotations and alosume Creengill Shorthorns Our peremo forcing consita of to yong buls Pricu
R. Mitchell \(\&\) Sons, Nelson P. O., Ont.

Shorthorn Cows and Heifers.

 HUGH THO YSON, BOX 556. ST. MARY'S, ONT T- My herd are profatabe milkiking
 cotch Shorthorns \({ }^{- \text {Present }}\) Iffering:

 Scotch Shorthorns \(\begin{gathered}\text { Wef now ofece four } \\ \text { heifere calves } 10 \text { ound }\end{gathered}\)
 Two actors were in con erssation the
ther daay.
"Hoar about the peculiar accident that happorent obout Maxine Eecliliat accident gress agent,
1. Toxin Worine up at Ryo the other 1. Toxin Worm, up at Rye the other
dayy? asked Actor No. 1 .
 a triend of his on a small poultry farm,
and while strolling about the place he AVes his foot slipped and he fell over and a. crash into the poultry yari Chichen poounced on on his name and richness and pleasing flavor. The big black plang chewing tobacco.
 prices. The Graham-Renfrew Co. (Ltd.).
of Bedford Park, North Toronto, Ont. whose reputation as importers of the
best horses procurable in Scotland is un challenged, reports that the last few class heavy horses for both breeding and work purposes, as decidedly the strong-
est in their years of experience. Nothing but the very best seems to satisfy th
present-day demand within a compar atively short time they have sold to
Cameron \& Co., Etobicoke P. O., Ont. the splendid Clydesdale stallion, Craig.
nair (imp.), a brown four-year-old son Of Lothian Again: to Phillips \& Son,
Essex, Ont., the Toronto first-prize win-ter-show winner, Celtic Laird (imp.).
brown five vear-old son of Argus. brown five-year-old son of Argus: A
Patterson Bros, Islington, Ont., Baron
Hamlet (imp.). winner of second prize a
\(\qquad\)
\(\qquad\) year-old son of Baron Solway; also th
Hackney stallion. Coron King (imp.) th
 these, besides the several mentioned in
former issue of ". The Farmer's Advocate. normer issue of The Farmer's Advocate,
that went to. II. Taber. Condie.
Sask.: the champion Hackney filly, Sax on's Queen, that went to F. Cooper
Claremiont, Ont, and the 1908 champion Hackney stallion, Carnion (imp.). tha
went to Orillia. Ont. They have sti on hand for sale at their Bedford Par
stables the Toronto first-prize two-yea
old. Top Spot (imp.). the bay son
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TRADE TOPIC



GOOD TO THE LAST DROP

 ㅇ..



Shorthorn Cattle AND LINCOLN SHEEP.
\(\qquad\) mom earling rams. Aces very reasonable for quick sale J. T. GIBSON, DENFIELD, ONT

\author{
A. Edward Meyer,
}
P.O. Bor 37, Guelph, Ontario, orceas scorch snortromens Exalumaty

 Imported Scotch Shorthorn Bulls 10







AMIS MARTHAR, Goblen Oatario WE ARE PRICING VERY REASONABLY 10 crovery bread vouns Shorthorn Bulls Also one extra good imported bull, 22 months old. We have always something
good to offer in females. Imported or home-bred. Write for what you want, or good to offer in females. Imported or home-bred. Write for what you want, or
come and see them. Bell phone at each farm. W. G. PETTIT
Farme cloce to Burlington Ict. Sta., G. T. R. Shorthorn Bulls! Scotch Shorthorns!
 Iam ofe ing aferu thaice young bullbe
 upon application. Brousham, Ontario. JOHN MILER, Brousham, Ontario.
H. SMITH, EXETER, ONT.


SHORTHORNS
as well as a number of the uefol oor tof bobh sedee. Prices right Larse
 H. Cargill \&. Son, Cargill, Ont.



 Belmar Parc. John Douglas, Manager. PE TER WHITE, Pembroke, Ont



 further particulars
Wansteat, ont.


Scotch Shorthorns年
 H. H. J. Davis,

\section*{SHORTHORNS !}

 \begin{tabular}{l} 
ing guahity and breding. Office near both statans. \\
SCOTT BROS., HIGHGATE, ONT. \\
\hline
\end{tabular}

\section*{RAW FURS 200,000 MUSKRAT \\ We buy all other nauos of furs. \\ The Monteith, Strother Fur Co. 11 end 13 Church St.}
\(\qquad\) of Ayrshires in the World.
 THURSDAY, MAY ZOLb, Nenneay \& Son, vernon. Ontar


\section*{BURNSIDE AYRSHIRES}


Stoneycroft Ayrshires Choice young bulls and heifers of the
ing, combining show and dairy quality.
Lar se Improved Yorkshire Pliss ana doms, now ready shin Stoneycroft Stock Farm, Ste, Anne de Bellevue, Qu
Prizewinning Ayrshires \(\begin{gathered}\text { Sale of the Most Celebrated Her } \\ \text { of Ayrshires in the World. }\end{gathered}\) Ayr
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 Gien Gow Storn Glen Gow Shorthorns

\section*{GOSSIP. \\ mbampton ilerset}

S of late years is one of the lead-
ctors of the Canadiun agriont Nators of the Canadian agriculturist's
ial success. The tal success. The unprecedented dhe golden era for breeders of
tred animals of the dairy breeds. 1. red animals of the dairy breeds.
among the several breeds of dairy anong the several breeds of dairy
none hold a more general favor
the Canadian people than the Jerthe Canadian people than the Jer-
, their beautiful form, their rich yelmilk, their easy keeping qualitics, all
make then especial favorites
For strictly The people generally. For strictly
class quatity and heavy-miking proWeness the renowned 1Brampton herd
uroperty of Messrs. B. H. Bull \&
13ramploin Property of Messrs. B, H. Bull \&
Brampton, Ont., stands practically
Hunt a peer. As a show herd, their inedented suceess yhear herd, their
anter year
yer their superiority indelibly. Now Strong, the herd never contained so
hishclass animals as at present-
hi imported, 25 were imported are imported, 25 were imported in
wind nearly all the others are by hat are still taking milt are a sivgh
wrth going miles to see. Arthur's
olden Fox, one of the greatest living
olden and sons of Flying Fox and grand
res, and
ons of Golden Lad, is proving one most successfual, sires of tho bremed of his
winning prizes galore, as well as
 Hood of Dentunia, all three being cham-
ionship winners. Among the females.
 nake an invincible hid for championship
honors next fall. When fresh she honors next fall. When fresh she gave
12 ibs. of milk a day. and is due to
(reshen in August. She has an August
(rul calf, by Imp. Arthur's Flying Fox.




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TRADE TOPIC
many fencts on the mar-


Combines the potent healing virtues of the Norway pine tree with other abeorbent, axpectorant end soothing medicines harmless, prompt and safo for the cure of

COUGES, COLDS, BRONCHITIS, HOARSENESS, CROUP, SORE THROAT, PAIN or TIGHTNESS in the CHEST,
and all throat and lang troubles. It it put up in a yellow wrapper, 3 pine trees the trade mark and the price 25 cents.

A HARD DRY COUGH.
Mr. J. L. Purdy, Millvale, N.S., writes:-"I have been troubled with hard, dry aight, but after having used Dr. Wood'a Norway Pine Syrup, for a few wooks, I find my oough has left me. To any person, suffering as I did, I can cay any person, suffering as ind a trial. I could not be without it in the house."
\(\overline{\text { Brampton Jerseys }}\) Unbroken record of several years success at all
leadirg kanadian exhibition is anequalled by any
other herd ot any kind or breded of lieqe ateck on the American contivent. When buying a family cow, a
stock bull or dairy herd, buy ony the best. Our
pubbicic record provers that we have them.
B. H. BULL \& SON, Brampton, Ont. LAKEVIEW HOLSTEINS
 R. O. daughters. including worls
champion nilch cow. For sale
wis.
\begin{tabular}{l} 
head to select from. \\
W. D. RRECKON, MSr., Brente, ont. \\
\hline
\end{tabular} IMPERIAL HOLSTEINS! For sale: 13 bulls of serviceable age, sired by Tidy
Abberikr Meruede- Posch, whose
have recorde
 ham. Int. Oxfard Gounty.


service next hyear bull for bus
we sell CHEAPBR we sell CHEAPR nor
than we do next spring
Why not write tous RGH Ahy not write to us RIGHIN

E \& F MALLORY, FRANKFORD, ONTARIO Young Holstein Bulls \(\begin{gathered}\text { For sale: } \\ \text { Holstein } \\ \text { bull }\end{gathered}\) tounths of age, sired by Carneliius Posch 2nd, an
nut of young cows that are showing well will nut of joung oows that are showing up well. Wil
oe ocld cheap for quick sale. Josh Harrison
Cork Mills. Ont.

A MAMMOTH AUCTION SALE OF 20 Head of Registered Holsteins

Including WILL BE HELD AT CANBORO VILLAGE. ONTARIO, ON
rms: \(\$ 5\) and under, cash ; over that, 7 months' credit on approved joint Terms: \(\$ 5\) and under, cash ; over that, 7 months credit on approved joint
\(3^{1 / 2}\) per cent. straight discount for cash on sums over \(\$ 5\).
Parties coming by train will be met at Canfield Station, G. T. R., by Parties coming by
notifying the proprieto
MONTAGUE \& MACQUILLEN.
JOHN HILL, PROPRIETOR
OANBORO.
ONTARIO

Centre and Hill Vieu Holsteins|Homewood Holsteins!


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J. \& J. Livingeton Brand

The finest feed known or stock. Once a user, always a user. coarse ground. Write : DOMINION LINSEED OIL CO., LIMITED, BADEN, ONTARIO. 31 Mill St, MONTREAL, QUE.


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 Write for our com.
PLEEPRICELSIS. E. T. CARTER \& CO., WepayFREIGHTand issued every littie 84 Front St, East, Toronto, Ont. PROMPT REIURNS.
while.
\begin{tabular}{l|l|l} 
Cattle and Sheep Metal e er \\
LABE
\end{tabular}






466
THE FARMER'S ADVOCATE.
 enal gripping-strength of our lock. Under the most unusual strain it never gives. It is known as the lock that can't slip; the lock that unfailingly holds the wires in their correct position. Nem pla
New Branswick Wire Fence Co., Limited, Moncton, New Branswic


\section*{FUU"RS - HIDES \\ Write for Wookly Price Llats. JOHN HALLAM \\ Shipmenta Soliolted TORONTO, ONT.}

Maple Villa Oxfords, Yorkshires IMPORTED HORNED DORSETS

 Imp. Remuls In 2nd. Cinada's banner flock
Iof Dorsets. JAS. ROBERTSON \& SONS. MIIton P.O. and
Sta... C.P.R. and G.T.R.

\section*{}


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\hline \multirow[t]{7}{*}{\begin{tabular}{l}
Pine Grove Yorkshires \\
J. Featherstone \& Son. Streetsville. Ont
\end{tabular}} \\
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\section*{2}

MONKLAND YORKSHIRES

FERGUS, ONTARIO
Newcastle Stock Farm|DUROC-JERSEY SWINE


GOSSIP.
J. H. M. Parker, of Willowdale
arm, Lennoxville, Que., advertismat
whe Shorthorn cather alme Lennoxville. Que., advertises ior horses. The catle consist of somestale very
good yearling and two-year-old bulls and heifers, from such sires as Broad scol oy of Morning. Morning Her
hey are all in tine condition Willowdale, a fine Scotch-topped, twenty-
months bull, is for sale, and would grace months bull. is for sale, and would grace
any herd. The Clydesdales consist of any herd. The (he best importations, headed by Fyvie Prince (ear-old, by Baron's
beautiful brown four-yeabert Ness \& Son
Pride, imported by Rober Indomitable (s414), a magnificent young-
ster. rising (wo, by Benedict, imported ster, rising two. by Benedict, imported
last July. The femates are bredd from
such sires as McQueen. Darnley, Baron's such sires as Mçueen, Darnley, Baron
Pride, Up-to-Time, Prince Sturdy, Ma
jestic. etc. Mr. Parker is also an
lensive treeter tensive breeder. of Larker is also an exter sheop and
Chester White swine. and has also one of Chester White swine, and has also one or
the most extensive purebred poultry
yards in Canadu. He will be pleased to send his pamphlet free upon applical
perusal of the new tabulated logue of the noted Cargill herd of Sculch bred Shorthorns will show the 160 or
more head now on hand to be one of the richest-bred \(h\) rords to be found in this or any country where Shorthorns are known
and while this is true of their breeding. and while this is true of their breeding,
the same may truthfully be said of their type and high-class individuality. There
type probably no other herd in the world to-day stronger in Cruickshank blood.
there being among the breeding females (5is there being among the breedig Beatys, one wo Rosemarys. two Secrets, one Rosewood, and three Victorins, besides such
other rich wlood as the Marr Beautys, other rich blood as the Marr Beautys,
Roan Ladys. Floras, and Rachels, Campbell Minas, Bruce MMayfowers, Broad-
hooks, etc., at the head of which ha nooks, etc., at the head of which has
been such grandly-bred buils as the Mis-sie-bred, Imp. Lord Mistletoe, hy Loval
Champion, the Missiebred, Imp. MerchChampion, the Missie bred, Chp, Merch
antman, also by Lovat Champios: the
Golden Drop bull. Golden Drop Victor, (imp.). by Nonpareil Victor: and the
present. stock bull. In.p. Blo d Roya, bred present stonk bull. In.p. Blo d Roya, bred
by Wm. Wuthie. sired by the Roemary
bull. Prite of Avon, 'am Beeufort Reauty 3rd. the Roan Lady bul
Royal Star. Individually, there have been few bulls imported from Scotland
the equul of thood Royal, and as a sire
he is all that could be expected from his high-class quality and right royal breed-
ing. Assistants in service, Mr. Car-
gill has lately imported two exceedingly cill has lately imported two exceedingly
choice young bulls. Proud Hero, bred
by \(\mathbf{W m}\). Duthie, sired by Pride of Avon.
 tish Crown, and Red Star, also bred by
Duthie, sired by the Roan Lady
bull. Vansuard, darm Beaufort Pride 4th,
by, Reyal by Royal slar, also a Roan in the
Price did not stand in the way in the
seletion of these young bulls, amd their
type and breeding being so high, they should leave their mark of excellence
the herd. Although of late sales ir this herd have been heavy, there are still
on hand twelve bulls fit for service; a
big, supp, good doing lot, all out of
imported dams. and got by imported
sires and sires, and a man wwuld hardly know what
he wanted is he could not be suited
amon! this lot. Besides these there are and
a number of younger ones, among which
are several exceedingly choice show ani-

\section*{TRADE TOPIC.}
\(\qquad\)
\(\qquad\)
\(\qquad\) rage of this issue, at only \(\$ 7.50\).
spllendid little machine is guaranin you for twenty-five years by a for twenty-five years by
responsible firm, the Chicazo
hait Company. If you have J. C. Ross Oxford Down Sheep, Shorthorn Gat



\section*{Weak Men, Wake Up!}

\section*{Why Do You Wait?}


LAND FOR SETTLEMENT !
 CENTS per acre, in various dio tricts in NORTHERN ONTARIO Write for information as to terms way rates, etc.
mom. Mamese an Durf. Thasirentimertchionization.Torement.

I Cured My Rupture I will Show You How to Cure Yours FREE!
 Hr vous system; it will fill your body with fresh strength and energy; it will give you back the powers or WILLIAM Brock Listowel, WM. S. CARTER, Mapleton, Mr. HENRy FAUST, Fordt, savs: " Your Belt cured me Ont., writes: "My aches and pains wich, Ont., says: "I have worn furalgia and Rheumatism after have completely left me. I am twice tions, and am pleased to say it has tulure of many kinds of medicine as strong aople to get Dr. McLaugh- it would. I have recommended and many doctors." lin's Electric Belt."
Call at my office this very day if you can; if can't, then fill out this coupon, send me address, and I'll mail you, closely sealed,
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DR. M. S. McIAUGHIIN,
\(\begin{array}{cc}\text { DR. } & \text { M. S. McIAUGHLIN } \\ 112 \text { Yonge } & \text { St., Toronto, Can. }\end{array}\)
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Free Rupture-Cure Coupon.
CAPT. W. A. COLLINGS.
Dear Sir,
Name

\section*{PLUS + Strength!} It's built into EVERY Cockshutt Implement -it pays to put it there-pays you and us too!

Plus strength means strength to stand harder usage than any farm-implement ought to have to stand-but DOES have to, sometimes.
Youthow what "carefur" use the average "hired man" is apt to give any farm-implementl. And the more Tour mead such expensive the thing is ther usige it; is likely to drenthth got-on your farm or cily if finntools body farm-impiement lacke pliustingeth. Its buill for careful handing-not for whon Whe Whys at the huinet tino-when brealkdowns cost most.
Of course it costs more to build plusstrength into. a machine; but the buyer of a Cockshutt implement pays no mere to get it
Sust a no Cockehuti customer pays a cent of the cost of this advt, he doesi't pey for the surplus strength Fhere the value Advertising is an investof it comes in ment that repays us in in-plus-atrength is an investment that repays us in inereased reputation. You get breakdown insurance for W/f trite yor'd pey for ordinary implements. We get whole lot in this businiess.
This plus-strength does NOT mean extra weight, nor clumsiness. It wouldn't be worth having if it did mean either of those things.

Putting this surplus strength into a Cockshutt Imple ment is a matter of careful choice of materials; of Lighter draft \({ }^{\text {special }}\) irons; of special factory processes goes with of special study by experts who plusestrendth are highily paid to accomplich this plus-strength very thing-and to do it without incrensing, but rather by lessening, the friction and the draf of the implement. Cockshutt implements stand up better and still draw lighter.
As the Cockshutt Line includes a great many kinds of implements-ranging from light garden plows to huge 12 -furrow engine gangs, and including harrows, cultivators, seeders, 'and other kinds of modern farm-equipment -it is not possible to tell you here just how this plus-strength is shown by each of them. But if you will just write and ask for our catalog, and tell us what particular implement you might be interested in, the details will go to you by return meil. That is well worth your while. It means money saved to youand satisfaction gained. Write us to-day.

\section*{Made with 13 and 15 Discs Guaranteed not to Clog}

Seeds Closest Runs Easiest

If you knew, to a dead certainty, that seeding your land to any grain with this New Disc Drill actually would increase the yield from 2 to 5 bushels an acre-if that could be proved to you beforehand-you would think pretty seriously about investing in one, wouldn't you? Well, that CAN be proved to you: and so can it be proved to you that no other seeding machine built will do what this does. Free Booklet B proves it


Booklet-B'tells you, among things ou ought to know, why this New ou ought Disc Drill sows enyt thing grown in drills, whether small as tobacco-seed or big as broad-beans, with greater accuracy and far more uniformity than tny other method of seeding can do. The pictures at each side of what you are reading now suggest one reason why this is so \begin{tabular}{c} 
Coar \\
Dite \\
Soil \\
\hline
\end{tabular}
 Proete Ail Briolking
that the grain-boot D
The picture above shows that the grain-boot. Discs are set six inches apart with a sopmen. on this Drill does not touch the disc at any inch stagger, and at exactly the angle that point; and, also, that the space between boot will cut the ground easiest. Grain OTTOM and disc widens gradually from bottom to right down the grain-boot the dep you aduast top. This makes it impossible for tresh, of the furrow-always at the depth you zajuot weeds, stones, etc., to jam there. Noth-
can seed from one-balf of the hopper ing of that kind can block the free turning of any disc. There's nothing to
 drill will worle perectly under conditions that would stall any other
drill ever built. for this Disc Drill's wondrously light drat \(\begin{aligned} & \text { from the full-widt } \\ & \text { running boarch }\end{aligned}\) trop-pattern frame, of high carbon angle steel (extra tough, extre strong), has a heavy l-beam running across the machine's whole width. Ti. whole frame is RIVETED together-not bolted-nothing about it to shak loose or cet out of true. And this is simply one of many Plus-Strength and Minus-Draft features of the Cockshutt New Disc Drill. SEND FOR```


[^0]:    

[^1]:    have you secured one of "the farmer's advocate" prem:!um

