## PAGES

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ad tight and in position, and "Maritime" strand tight and
fences never sag

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Eight hours, at 15 cent, costs you $\$ 1.20$ per week for washing.
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We don't want a cent of your money, nor a note, nor a contract, when we ship you the test the machine as much as you like before you agree to buy it.
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Each "1900 Junior" Washer lasts at least five years, yet a very few months, at 50 cents a week, makes it entirely your own, out of what it saves you on oach washing.
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 district, which is in the heart of the
## GREAT WHEAT PLAINS SASKATCHEWAN

 Ample TIMBER for All PurposesProf. Thos. Shaw, after personal inspection, writes: "Th rion all
Last Mountain Lake, embraces one of the finest areas in the rich and beautiful farming section lying in the vicinity of open prairie. The soil is rich black veretable loam, from one to Northwest. The land is undulating in this region, mostly to injure the wheat, is virtually unknown. Being thus favored so ho highly deep, and is underlaid with a clay subsoil. Frost, asta Rater Oats, Barley, Flax and all small grains yield relatively as good as those of wheat. Potyonshels per acre have been reaped. or three years ago there were not more than thirty-five settlers in the entire wheat. Potatoes grow most luxuriantly. Two rapidly coming in.'
entitled "The Lake and Lands which Is not only a work of ands of Last Mountain Valley," Information. We will also send Atlas of Canada, Maps,

# Che Farmer's XIdvocate 

Persevere and succeed.' and Fome Magazine
c

## EDITORIAL

ROAD DRAINAGE
Wrainage is the fundamental principle of roadWaking. Without it good roads are impossible.
the term drainage implies provision, either natural or artificial, for the rapid and thorough removal hoth surface and subsoil moisture. Surface foftening the surface, thus causing mud and after"ards ruts. Surface moisture must be removed,
also, because, if allowed to lie on the road, a ortion of it will soak down into the subsoil, thus boftening it, unfitting it to bear the weight of ratfic and causing it to yield in places, thereby
fisrupting the surface bond, whether this be earth ,if metal. The results are particularly disastrous urs is done in spring when the frost is coming
$\qquad$ traded to a reasonable crown, ditchess movided fith steady fall and iree outlic. culverts made large enough to take care of the maximum flow my where, for these collect volumes of water tha iterwards keeps the adjoining roadbed soit by
eepage till the hole is dried. Having graded the
$\qquad$
$\qquad$ his operation is very lemportant, but has been sadly neglected in many cases. Experience to fore seems to favor the split-log drag as the hest eveller is also good. Such an implement as the rag or leveller is especially needed on clay roads,
ut will do good work on any earth road, and ven on gravel, tending to preserve a smooth surace that will shed water readily. Incidentally.
t "ill tend to pressere the crown and obviate t "Ill tend to presserve the crown and
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face thaws first, and dries, perhaps, into a sort o
crust. Underneath is a soupy, spongy bog that vields as you walk over it and allows horse hoois
and wagon wheels to press down, cutting deep uts, completely destroying the once compact bonded surface, in the case of macadamized roads, and playing havoc equally with the earth-surfaced Mighway, the difference in degree of injury being eonstruct Before this road has dried cost more to
if the crown is clay, have been cut up into hor-
ible ruts and hoor marks. If gravelled or
but the bottom and sides of them will be rough
with pebbles and pieces of stone, and travel and rain will combine to jar other stones loose, and form mudholes. In one or two. winters the was originally laid, is but a heap of loose metal mired into a mudhole. Then more metal is applied, and the thing goes on indefinitely. Conroad where the subsoil is not well drained, either naturally or artificially. Artificial subsoil drain age is not always necessary, although in nearly some locations where good natural drainage and tains. and in such cases it is sufficient to e obdrag, ditch and then promptly repair the little
$\qquad$ But there are other roads-thousands and thousands of miles of them-that will never be is done the better. Underdrainage will do two things: It will greatly improve the road for immediate use, and prepare a foundation on which gravel or crushed stone can be applied at some uture time with prospects of permanent results. suggestions to offer at an earty date. MeanAme, correspondence is invited from readers who FRESH AIR BETTER THAN TUBERCULIN

he efforts which are being made in Wisconsi

agislate hovine tuberculosis out of the Stat
qe question again of the ultimate or even temporary utility of this plan of campaign. Whethe a cone of the human and bovine types
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$\qquad$ reatment. The success of fresh air, coupled with ample nutrition, in case of the human subject, is
beyond any question, and Mr. H. F. Brown, the eteran Shorthorn breeder, of Minnesota, aiter
$\qquad$ war emphatic testimony to the great advantage attle in the open air both during summer and Minnusota is more rigorous than that of Ontario, and set he is preparing to use open sheds in
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## CORN - FIELD CULTIVATION.

In the May 2nd issue of " The Farmer's Advocate," the importance of early disking or cultivating of the land intended for corn was urged as a means of keeping the surface soil friable, preventing the escape of soil moisture by evaporation, and rendering the proper preparation of the seedbed much less difficult. Now that in most cases pleted, the importance of early and frequent stirring of the soil by means of the harrow, weeder or cultivator can hardly be too strongly advocated for the purposes of prevention of weed growth, the admission of air to the roots of the plants and the continued conservation of moisture in the land. Heat, moisture and air are cardinal requisites for rapid growth of most plants, but these agencies stimulate germination and growth of weeds as well as of useful crops, and as in his, as in most other matters, prevention is preferable to cure, the early stirring of the soil after hold and strangles them in their birth, thus saving much labor at a later stage, were they given a chance to a a form root and grow strong, robbing the crop of needed moisture and hindering its growth and development. An old-time doggerel
.. A wiie a dog, and a walnut tree
The more you beat 'em, the better they be
While we should hesitate to endorse this doctrine in the case of "the party of the first part,"" experience has taught that in the treatment of he corn crop there is more than a modicum of sense in it. The mistake generally made, of sowing too much seed, is not observable till the crop lacking in substance and feeding value, and yielding no ears, is then clearly noticeable. For the reasons above indicated, harrowing the ground or scratching it with the weeder after planting, both before and after the plants are up, while it may to some extent thin out the stand, will generally more than compensate for this by the prevention of weed growth, by conserving moisture in the land and promoting a rapid and vigorous growth Too many farmers have yet a wrong idea regarding cultivation. They wait till the weeds begimning to cultivate at the wrong end of the week, and a week sometimes makes a great difference in the cost in time and labor of subduing a setting of weeds, while if a wet spell comes when the cultivator cannot be put to work, they make alarming headway, and seriously handicap the crop for the entire season. One cultivation at the right time is often better than two or three ater on; and any time, when the ground is not coo wet, is a right time to cultivate corn, no matter how dry or hot the weather may be. The an frequent cultivation, has the on top, created. reventing evaporation, while aerating the under ying stratas of soil
The doctrine of frequent cultivation of the corn (rop) is undoubtedly sound, and the cultivation in he early stages of its growth may be fairly deep, sut should be shallower at the later stage when the rootlets spread over the spaces between the ors, and should not be cut off by deep cultivaand Within reasonable limits, in regard to corn andmoniticure, it is therefore safe to repeat the $l_{\text {lin }}$ espefally soon after a rain, to prevent a crust form-
the Farmer's Advocate
and Home Magazine
the leading agricultural journal in the Dominion.
the william welid company (Lamitrd)
john weld, managr.

Aazets por The Farmer's Advocate
W. W. Chapmand Agent, Mowbray Hous (Ench

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THE WILIAM WERS ADVOCATE

## PRICE OF FARM MACHINERY

An article published in the Canadian Thresher farm machinery, varying from 5 to possibly of per cent., because of the increase of raw materiat and labor. Detailed statements are given, show ing the rise in various classes of iron and wood ranging all the way from 20 to 100 per cent., during, say, the last ten years. It is also pointed out that the manuiacturer is unable to buy his raw materials now on as favorable terms as formerly, but when he comes to sell the finished products, there are long credits and low rates of interest. Compared with what they were twenty
years ago, implements have greatly decreased in years ago, implements have greatly decreased in
cost by reason of competition, but now there is general upward trend in the prices of nearly all commodities. The article also argues that, as a producer, the capacity of the farmer has increased, better knowledge and facilities, he can increase his output, his expenses are also increasing both in the home and on the farm. In order to over-
come the labor shortage, he resorts to the use of labor-saving machinery in almost every depart-
ment of farm work. With regard to the prospecive increase in the cost of implements, it wil not be inappropriate to advise again greater care
in the use and housing of the plant in which so much of the farmer's capital is annually locked up, in order to prolong its period of effective operation among neighbors in the purchase and
use of many of the more costly implements in modern farming. 1sy such practicable measures as these he will be
reasonable limits his
proposed advance ta
now good prioes are
products and live stoc
e a turn in the tide ne
the spending department
sperdelay its advent

## SUCCESSFUL IMPERIAL CONFERENCE

 The Imperial Confenance in London Eng has been a great success, not so much for what it acomplished as for what it left undone. This is ical conference of Colonial Premiers with representatives of the Home Government makes for mutual understanding, and if, in the present instance, there were few misapprehensions to clear p or difficulties to remove, it is quite probable that the Conference will have proved useful in averting impending trouble from some unexpected quarter or other. Not knowing when or whence difficulty will arise, it behooves the Empire This is close touch each part with the other The besetting what has been accomplished. he one just held is the mischievous ree such as the part of some of the assembled tendency on and of their friends at home of theseative must do something to make a bir their wings and crow over. That such an flap tuality was avoided, was due in large measure to the sagacious statesmanship of Canada's Premier Imperial Council his mind was definitely made a his reasoning larsighted and clear. He realize that formal representation on a permanent Im perial Council might, through indiscreet represen tatives, or more probably through the decision of to majority, drag Canada and other Colonies in avoid if left free wh they would instinctively own course: and, anyway the co choose their busy minding their own business necessarily in world politics. Great Britain count on our moral support and on our active help in time of need, whenever her cause commends it self to our judgment. That is enough at present. It is as close a union as is feasible. Britain keeps us with her by the very freedom she allows us. Attempt to forge links of formal union will destroy the harmony that now exists, cause fricperialism is a spirit-not a frue ImIn line with spirit-not a form.the question of preferential Canada's position on gave a preference to Great Britain The Dominion needed measure of tariff reform. Our tariff as a too high. It imposed a needless burden upon was consumers. We concluded to lower it somewhat, and, instead of simply making a sweeping general reduction in our schedules, we cut the larger slice off inports from Britain-a move which, in many ines of goods, had the effect of compelling oreigners to meet British prices in our markets, to almost as great an extent in sum taxpayers all-round reduction an extent in such cases as an 1y, the preference would have done. IncidentalGreat Britain, as it was desired it advantage In Britain the case is different. It is do. whether she stands to gain by any chance in fitful policy. Any considerable tax on food in fiscal to feed her people would be a handicap upon thed Whole British people, and must tend to increase and commerce. Such the cost of manufacture and 13ritain price of foodstufis for a time at least ahout lasing the beginnings of what might eventually become a fantastic fiscal fabric. It evenhe argued that a slight tax on foreign foodstuffs to a greater degree than it would hation Colonies facture in Britain, and that such encouragement precaution in the event of war shuttingle as a plies from other countries. That is a question welcome such a conclusion, it is not for we would terfere or dogmatize concerning her affairs. The ing our consumers and filling our national relievand also indirectly by adrertising Canada in the judice for our coods. If there a favorable pretherefore. to insist on Britain upsetting her whole fiscal slatem in order to grant us a quid pro quo This matter, she may rest assured we are making .i. drmands or threats.
was to decide in years, and ask that a special meeting every four Colonial Office, called a Secretariat, be appointed prepare material for its consideration ment, for the service of the Empire the develop staff, drawn from the forces of the Empire. whosi duty it will be to advise on defence and other military matters. Universal penny postage cheaper cable rates, and Imperial naturalization were discussed, to more or less definite purpose Best of all, it looks as though a result of the Conference will be the inauguration of the longCanada forween Pandic and Great Britain, also an improved thing it could do that was necessary or wise, and refrained from doing that which would have en tailed complications, embarrassment and friction leading, quite conceivably to rebellion, secession or disintegration. Our Imperial statesmen showed their wisdom by letting well enough alone

## TIMBER VALUES SOARING

The man who fences of and cares for his woont han would ferard a far better revenuc Prices for timber of all kinds are soaring in way that is really alarming to manufacturers able recently compiled, showing the average into the various kinds of raw material entering shows an increase in the price of pole stock nearly 82 per cent. from 1896 to 1907 . The igures by years are: 1896, $\$ 22$ per M. 1897 \$23; 1898, \$23; 1904, \$31.50; 1905. \$35. 1906. $\$ 37.50$; 1907, $\$ 40$.

The National Hardwood Timber Association oi he United States, at their recent session in Memble cenn., adopted a report on the best availnited States there are now standing in the ieet of lumber approximately $1,475,000,000,000$ ut every year at which rate the ferests are being ast about 33 years." Including the consumption of wood for all purposes, and that destroyed by forfeet fires, it was estimated that over $75,000,000,0(1)$ reality, there are cout supplies standind that, in mercial timber for the remedy

## HORSES.

## CARE OF THE COLT'S FEET

The condition of the colt's feet has much to do being driven a few minutes on the hard roase after colts act sluggish and indifferent, or irritable and ranky, thouch generally the former. The troubte will take the soreness out of his foet he has not been shod, pasture on the cool moist ground (nature's him in the few days, shoe him with earth in the stable. After the weight to correspond with the strength of hor the fore feet, but farther back in the hind ones. Don't
draw the nails well in the the of heineet are not used to it, and mind there is much in an be told by feeling, soak the feet in fepid water duce the frequer., pull with clay. Should this fail to re-
few days and try again RE PROPOSED CANADIAN PERCHERON RECORD
bepartine of the Live-stock Branch, Dominion number of men interested in the request of a and impen corresponding with all known breeders and importers in Canada, with a view to the in under the Act respecting the incorporation breed inder the Act respecting the incorporation of live-
touck record associations. ited hy Mr. Greig relative to the advisability or wh artion, also the time and place to hold an


## DEFECTS IN ACTION

 serious defect, and it may truly be said that a
stumbling horse has for slow work, as it is nactically no value, except unsafe to either drive or ride disagreeable but ence has taught me that a pure-bred horse ver
seldom stumbles almost unknown ; so, also, is the defect rare is Hackneys, or other breeds of carriage or in horses, or in the Standard-bred of good quality The fault is more often noticed in horses of mixed breeding. I am, of course, referring principally
to the lighter class of horses, as in the heavier classes, even where the fault exists, it is not of such importance, as the animals are not driven is little danger hitched to heavy vehicles, there horse may injure his own knees. Ven though the in horse-breeding is likely to produce stumblers by a Thoroughbred. To of a heavy, rough mare Thoroughbred can produce a stumbler may sound like "rank heresy," but observation tells us that low actor, and if bred to blood that even his prepotency is of such cold come, there is a great probability of producing an offspring that inherits neither a fair degree of and activity of the sire: is fittod nor the quality work, and having to a large degree the sluggish ness of the dam and the low action of probably both poses. Crossing cold-blot valuable for other purposes. Crossing cold-blooded mares with sires of
other light breeds frequently produces animals of the same characteristics. Stumbling may be sai
ness. Horses with weal low action, or sluggish genital conformation or hard work, are from conexceptionally active disposition, prone to stumble Horses of quite low fore action are prone to trip
or stumble except on level ground. Horses that are unsafe sluggish, and inclined to loaf, are also usually in clined to stumble. From whatever cause, the cannot be corrected; but may and, we may say, stant care on the part of the driver, by beeponthe horse well in hand and overcoming slupgish ". drive to attention ", by compelling the aninial to average horseman, makes drimes. This, to the labor rather than a pleasure. The use of a tiving check-rein removes to some extent the tendency
stumble, but under those conditions. Stumbling stumble when the horse is moving at an ordinary ro and if he is taken well in hand and driven smartl driving at such a gait horse can stand constant heavily, with rolling-toe action, will, shoeing stumbling, but in most cases shoeing of this kind
while it while it causes high action white going fast, does ency to make the action more even have a tendprinciple, light shoes should correct the fault this in some cases do. As in most defect in action what will have a tendency to prevent stumbling hence each animal must be treated fault in other his individuality.
Interfering. -1 in tand the striking of one hind fetlock with the
shoe of the opposite foot. This fault is more often met with than any fault is probahl,
horses with good conformation. Horses which tand wide at the hocks and plant the feet closel ward part of the shoee, while those with the for
with the toes well turned sutwid close together will strike with the back part of
the shoe. Interfering is oiten noticed in woung
homes horses when first shod, and disappears when they thoeing with light shoes that conform well work
shaple of the foot will often chock the fallt he practice too often adopted of showing with
soe thicker on the insidfe than on the cutside
arder to change the position oif ut wards when the foot is planted. camnot he. tom
trongly condemned.
$\qquad$

han the hoof, with at lww calk "In it (In
raised higher
heck that
and hock
interfere, notwithstanding
interfere, notwithstanding
wearing of boots should
continues to strike th
stant, and will probably materially interfere wit
his usefulness. Forging.- By forging is understood the striking
of the shoe of the fore foot with that of the hind one. This fault, while possibly not interfering to very irritating to the driver or rider, and very objectionable. While it is occasionally noticed in horses of all conformations, it is more commonly
seen in those with very short backs. It is usual ly noticed at the ordinary road gait, and seldom heard when the horse is either walking or trot ting at a smart pace. In most cases it can be corrected by shoeing rather heavily, and with
rolling-motion shoes in front to make him pick more quickly and go a little higher; and shoeing the hind feet with shoes slightly shorter than the hoof, and without toe-clips. In other cases, a
very light shoe in front gives better satisfaction As with most defects, each horse must be treated according to his peculiarities of action.. WHIP ." whip.'

> When a horse becomes frightened, it is a mis-
ake to use the whip on him, or employ harsh take to use the whip on him, or employ harsh
language. If a horse is frightened of any object, and is whipped because he shows fright, he whipping, and will, for that reason, fear it still
white

## LIVE STOCK.

## AN IMPLACABLE FOE OF THE DOG

Will you allow me a short space in which
reply in a general way to the arguments of those
who differ from me on the dog question Who difier from me on the dog question. First,
let me thank Sandy Fraser, and several
others whose names have slipped my mind, for the others way in which they seconded my endeavor to draw public attention to what I consider the greatest drawback that the sheepman has to contend
against, and the greatest nuisance at large. Now. right to keep a dog when he has paid the no no tax for it, but that he has no right to allow it or property. Some people have queer ideas about things they keep for pets. A prominent societ. long, and capable of crushing a man to 18 feet moment's time. Sara Bernhardt, the great Fren actress, has a pet tigress. But they do not rul
about on the public streets, or the police woulc What right, then, has anyone to keep a dog beast, and allow the same to run at his own sweet will, and harass and annoy everyone who,
doess not and can not see any use for the miserable
brute? I think every reater of your paper will have
notiond that in all the replios notiond that in all the replies to my first lett..
(and opposed to my opinions contained therein)
there runs thic idm. other runs this idca. My is dog is all. right,
A word now one that is wrong., A word now with regard to the much-vaunted lot, the Collic will take the cake, Strong, sas head I can take anyone an hom's drive from
where I live in which time they will have heon
chased and vappect at and every one of them pure-hred collies, many oi Acripturese for the orponents have grone into the literty to follow them? It has heen argued that
in the destruction of Sodom, it was promised that
in if ten good men were fomme the city should be The commit wew that goos ont tow wing the the on dones thould then...
 2nan and

DCLLARS' WORTH OF BENEFIT EVERY YEAR
DCLLARS WORTH OF BENEFIT EVERY YEARcontinges to sotrike, should then conth hen

WHEN THE COW DOES NOT CLEAN.

<br>$\qquad$

ows after calving, especially when farmers neglect In some stables visited a strong, nasty-smelling has been noticed, which on examination has been found
to be produced by the decomposing mass to be produced by the decomposing mass of alterbirth
partially or wholly retained by the cow. In cases the cow shows signs of general cow. In health result of the retention of the putrescent material, such ill health being nothing more or less than a slow form for use by man or beast. This lyy-product of is tion should be removed within a few days afte birth of the calf, at least before decomposition
evidence. Removal is not a serious matter if con evidence. Removal is not a serious matter if cormmon
sense and caution are observed, and in the majority of
cases, where possible it were and an cases, where possible, it were better to purchase this by the employment of a properly-qualifeed veterinarian.
If the help of a man so skilled is not available, the by the employment of a properly-qualifed veterinarian.
If the help of a man so skilled is not available, the
farmer should undertake the removal of the membrane himself, remembering the method by which membranes ment is made to the internal surface of the womb. ment is made to the internal surface of the womb. An
examination of that surface hy the hand reveals the
presence, here and there, of litule buttons (cotyledons) from which (it can be described no better way) th) afterbirth must be gently unlbuttoned, each cotyledon
as it is come to being cently as it is come to being gently stripped of its abmormal
(at that late date) covering. With one hat the buttons carefully, and the other hand gently exercising traction, it is only a comparatively short time
before the cow will be rid of this foreign irritant mem
brane for brane, for such it has become. The hand of the person engaged in the removal should he free of cuts and
wounds. and should be well smeared with carbolized oil wounds, and should be well smeared with carbolized oil
or clean unsaltect lard, and on the job being finished, a thorough washing should be given in somie antiseptic
solution. If the mentranes have in solution. If the mentranes have then retained a day
or so, it will be found of benefit to irricate the or so, it will be found of benefit to irrigate the genital
passages of the cow with some solution made up frol one of the coal-tar products, and by so doing remove
any small pieces any small pieces or disintegrated portions that may be
left to poison the system and imduce tion. We have known some careless a and finhish condisons leave cows unattended for a week or more, causing suffering to the animal, as well as tending to induce a
very dangerous state of casing sional or otherwise, called in to remove the profesmass. The armals, of veterinary medicine are decaying nately not free from records of veterinarians losing a
memter (hand or arm) or their ing, through what can or their lives from blood poisonligence on the part of clients-owners of cows. Delag-

$$
\begin{aligned}
& \text { in such matters are dangerous, both to the animal and } \\
& \text { the person seeking to relieve it. } \\
& \text { A. G. H. }
\end{aligned}
$$

make it a practice to prepare sheep those who Teck washing before shearing, and will be glad time temperature us that at "long last "springfor washed orice paid by deaters in this country Gulury third less in weight. we would rather acoi the mon whe the the work the the animals, and
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 the
then
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SHEEP SHEARINGWhile experienced sheep breeders and those who
make it a practice to proware see

unwashed hefore this date. there of the doubsteess
tuany who still waitcreek washing before shearing, and will he fortime temperature has come, for occasional day days

Without washing as we beine ser and octasional days
difes of the sheep, as being sater for the health andives of the sheep, and while. we. believe that the
difference in price paid by dualers in this country

the low price paid for unwashed or rather that
thy the difference in warrtoy the difference in weight. We would rather ac-

$\qquad$help, a reasonable days of scarcity and cost oi

$\qquad$
wash hefore shearing. we plead for a merciful

$\qquad$oif l......nam
place for shearing, the sheep being penned in one of hand hoe during the growing season of corn or vigorous that they have been known to pierce through end of the floor for convenient catching, but a roots, with one or two turns with the hoe after culti- a potato. It is a true grass, and not so readily
 well. The common practice of shearing is to gently set the sheep on its rump and commence Shearing at the throat, shearing down the neck, turning to the neck, shearing first down the leit
side, following the rills to the backbone till thi ail is reached and stripped, then turning to the ing from the spine to the belly, until the reter C is again reached, and the whole hody is stripped
of its covering.
Experienced
shepherds. irom much practice, make neat work, the shear marks
showing regularly like ribs meatine she of the back. This is done by running the shears almost closed, atter the manner of a woman cut-
ting cloth, pressing but lightly on the springs, instead of the chopping motion practiced by the finish, and too orten cuts into the skin One the best shearers we know commences by putting the sheep down on its broadside, and, with his
left foot on the wool of the neck, commences shear on the inside of the hind legs and twist.
then along the belly and brisket. before setting the animal on its rump, to proceed as above de seribed. Some English shepherds shear length-
wise of the carcass, Irom the shoulder hack ing regular shear marks running from shoulder to stern instead of around the body.
Tying up thece neatly requires a little skill more convenient to to handle when well done. but
makes a much better ant makes a much better appearance. First of all, any
tag locks of dung should be carefully clipped oft and thrown into a heap, to be later washed in
hot water and sold separately for what it will bring, then, spreading the fleece on the floor, with the sheared side down, gather in from both sides to the center and roll up from the tail end to the
neck, twisting a strand of the neck wol
 flece well together.

THE FARM.
A FEW OF OUR WORST PERENNIAL WEEDS
 and begin with the Canada thistle (Carduus arvensis),
a weed so widely distributed and so well known
 was believed to be the worst weed in existence, and
we have heard men gravely say that to exterminate it was impossible, Now its terrors are largely gone
whether because weds worse to sulbdue have come in some think, beceusus it has have reen employed, or itself out; certain it is
is
that that it is not now dreaded as formerly. It is still
very bad weed, however, and should be well
looked alter. Happily, it does not thrive in close sod, and in permanent pasture cutting it twice a year with the
seythe to keep it from seeding will suffice to told it in
check.
All roandides neck. A. roadsides and fercesides should the gone
over in this way. In June grain ferlds should de gone
ver and thistlos suadded ns they ought to bo in oother crops there shoould not toe many to spull Thistles can be checked by clover and
completeny killed by summer-fallowing, but the method


some respects better than corn or roots. It need not Le sown until July, and thus allows time for repeated
cultivations in spriny which ane very olroctiw Corn sow thistle, or perennial sow thistle (Sonchus arvensis) - This is a worse weed to subdue than the
(anada thistle, and on its frost Canada thistle, and on its first appearance should be
taken in hand seriously. It resemples somowhat the annual sow or milk thistle, which is a harmless weed. It is a perennial, one to three feet high, with large
and vigorous rootstocks, full of a miky, white anice and vigorous rootstocks, full of a milky white juice.
The stems are rough and rather bare of leaves. growth of the lower part of the plant is rank. . The
leaves ano leaves are deeply cut and furnished with smank spines,
which at their base clasp the stem. The flowers reWhich at their base clasp the stem. The flowers re-
semble those of the dandelion, both in color The seed is downy, and can be carried somene little dise tance by the wind. Seed grain or grass seed is usually responsible for the introduction of the plant, but
once established it seets abundantly, and also spreads nee estatished it seeds abundantly, and also spreads
rapidly from the root, any small piece of which will
 of the field. It thrives best in moist loam, and is
least trentione The same treatment as for Canada thistle is recommended, though we have never known one year's treat-
ment in tont athy two successive hoed crops would be effective. Sind weed or wild morning glory (Convolvulus ar
vensis). This is the most pernicious weed the hardes thsis). -This is the most pernicious weed, the hardest
to eradicate of any of which we have a knowledre It is a perennial, whoses rontstocks not only fill the surface soil but go deoply down into the subsoil. Where woll established it twines itself about the stalks of
grain or grass in which it may he growing gran or grass in which it may be growing, partially
or completely choking the crop. The leaves are rather small and arrow-head in shape, the leaves are rathe pinkish white, about an inch across, the exact shape the omormhng gulory, but smaller; blooning, however, in Erain or mangel seed, but once started spreads chiefly by the root. We know of no farm entirely overrun
by this weed, but London without one or more patches of it. $\begin{gathered}\text { Catch it } \\ \text { Cate }\end{gathered}$ young if possible. In hand-hoeing corn or roots there
is a valualle opportunity of discovering new intruders.
 deeply with a spade. Mark the place, and ase soon as
plants reappear dig out again. The process may need plants reappear dig out again. The process may need
to be reperated three or four times, put each time the to ber reveated three or forr times, but each time the
plants struggle to the surface they are exhausting the
ronet root, and one scason's perseverance will finish them. If
the patch is so large that snading is fimpracticalle. he patch is so large that spading is impracticable, a
pile of manure, not straw, two or three feet deap (eatt
 Cayer of tor paper answers as well. If anyone is so Unfortunate as to have a patch of too large dimensions
to be trented by either of the methods mentioned, then bare treated by either of the methods mentioned, then
bare surface cultivation should be tried. Sow no croo on the place and do not plow the ground. Plowing is not the proper method of dealing with weeds that
have deep creeping rootstocks. It trunsplants but does have deep creeping rootstocks. It transplants but does
not kill them. Use a cultivator that cuts all the surface and cultivate throughout the season as often as the plants appear above ground. That will be about Once every five days in the growing season. If the
patch is of long standing it may need the work of patch is of long standing it may need the work of
another season to finish it. but it can thus be finished. Early plowing after harvest, if the weather is dry, is said to check this weed, but we have never known it
to be exterminated by any cultivating or hocing process that can be applied while one crop is growing, though careful work in two or three successive hoe crops has. in some cases, proven sufficient to finish it. However,
summer-fallowing is usually advisable. Quack grass. couch grass or twitch grass (Agronyrum
ticed as some other weeds. The first intimation some drawing pow through a patch of the the leanes or blades much resemble wheat when growing. The plan produces spikes from three to eight inches long. The small spikelets alternate at each notch of the fowe stalk. In the head of perennial rye grass, which it might be taken for, the edge of the spikelet is towards the stalk. Quack grass is not utterly useless, being paten by ammana
It can be eradicated by the trentment recommended for thistles. During the fall cultivation it is well, by loosen of the harrow and spring-tooth cultivator, $t$ up and burned. Canadian blue grass in clay soils often becomes at
veed very diffcult to kill, and has to be treated like Ox-eyo daisy (Chrysanthemum Leucanthemum). - The firls admire the flowers very much, and call them aysorguer ertes, . To the careful farmer they are an गossesses great vitality, and is proctuced im abumdance It is frequently found in clover and timothy seed. The tontstocks of this perennial weed are short and thick
and the plant forms
a
close spreading mat whicl arowds out grass. It is not usually troublesome in eradicating it out of pasture land and is usually discovered in first-crop hay, and hand-pulling at that stage will kill it. This ought not to be neg If a little clump has got a start on the road or fence-side, dig out the sod to a depth of two or three inches and hang on the fence to dry. This will usually ot many other weects a stitich in time daisy, as in that

## CORNER POSTS PLAN

$$
\begin{aligned}
& \text { antlor The Farmer's Advocate } \\
& 1 \text { notico in "The Fa }
\end{aligned}
$$

contrinuted ithe Farmer's Advocate" of May 2 nd do not think much of the plan described wire fence. I in corner or end posts for a number of fences, I will lep you my plan: Dig a hole $2 \times 5$ feet and 5 feet deep. Now dig in the center of this a round hole, say your hole sideways of the draw or post, always put tence. Now select a post 8 inches in diameter and 10 Ieet long. cut gains in the two sides to fort $2 \times 5$ scan-
Uling, 5 i inches s tling, 5 inches from the end, so as to let the bottom
side of the scantling rest on the $\begin{aligned} & \text { tround; }\end{aligned}$ saiko dide of the scantling rest on the ground; spike frmly
to post. Now place post in the hole place pmall sto
 cut some hoards or plank the width of holed. and put
crossways of scantling; spike these also. Now fill in the balance of hole with stone, well packedt ill in near the top of the surface on fence line side, place a large fat stone-say 3 ft. x 1 ft., and at least 6 inches
thick-against the post lick-agninst the post and side of hole rarmy, for a
side drant support. Now dig a brace post hole a feet away. 2 feet in diameter, and 4 feet deep: place an 8 -ft. 6 -in. post and 6 -in. diaineter here, and pack small stone, well hammered down, all around this; put in a brace at least 4 inches thick say 15 inches from cornce post, having a notch cut in to tet the end of
orace fit in firmm at brace ft in firmly at both ends. Place 2 atrands of
No. 9 sort wire at least $3 \frac{1}{3}$ feet high high, well down on corner post, and
brace post.
Now catile
 brace crossing. This will stand frost, horse tackle,
tightner of any sort. wind with tightner of any sort, and with no danger of pulling
out, and it will last as lonk as the maker will. and will last as long as the maker of post
Solid post MAN


THE FARMER'S ADVOCATE

PRACTICAL FARM DRAINAGE every drainage problem we are confonted with question that cannot be answered ofhand. The amoun of water that will flow through a pipe depends upon hen we are slope-so case, we must determine first the area to be drained,
and, secondly, the slope-the roughness is a constant actor and already known. The acreage that various has been carefully marked out by McConnell, and his table is subjoine
Table of size of tile pipe of whiv puai (McConnell.)


[^0] of his main is 1 toot in boo then we look town the
list ot talls till we fand 1 foot in too, and tollow this
 S-inch tile not given, but probhably drains about ? Sacres. draining 13.3 acrese, The size to use for any other
 mains. Owing to the great amount of triction in small crie compared with the volume of water they carry.

 depth and dstances apakt. ting their dreat that t beg nners otten make is that of pu understanding iulve the action and tunction


 to drain our soil on the surtace alome. If they


 we drain? From three to four feet, in order that the roots of these crops may have full opportunity, peme rata the soll. It mayy bo suggeseded that two the that as the seasonon ad ana anced the water would natururall


 ten were to observerve the water reme wed ind in the thele tole situated midway, between the fither drain. wut the on or a long time, and this others less in them as ho approched the trants, thus thow ins






 ray bewen one two within anout forty vipht haw
we arrive at the gencral conclusion that if drains are with the sucker rod in the pump. This connce to 66 feet apart in clay or clay loam, and from 75 to to inches long, one end fastened to the crank, th to 66 feet apart in clay or clay loam, and from
100 feet apart in lighter soils. But this is only general conclusion, and judgment must be used in each
individual case. individual case.
Ontario Agricultural College.

A DOG WHEEL POWER

of will try to explain to you the constructio of the dog wheel and the attachment to the pump
The wheel consists of, first, the hub (a), which i of hard wood, oak preferred twelve inches is

tened the spokes (d); the first pair cross a
right angles, thus making four spokes; the are fitted into the angles; fasten securely with
screw nails to the hul screw nails to the hub. The spokes are $1 \times 4$
inch pine or basswood. The inch pine or basswood. The outcr circle (c), also
$1 \times 4$ inch, is fastened to the spokes. Having done this, you have a wheel. Two of these wheels are required. Now bore the holes in the hul, of each and put a shaft through them, and set up in the
position you wish to have it to run. place that position you wish to have it to run. Place those
wheels 26 inches apart on the shait Now, with
narrow boards 20 inches long. cover them all the

$\qquad$
thet ween the shortes pitman en either side

| wheel can be made 8,9 wheel now complete. The |
| :--- |
| wh | 0 feet high. according to the height of the ceiling where it is set uf) x $\times 3$ inches, nailed together, with a groove in the

center for the chain. This circle is four or five whe in diameter, and is bolted to the spokes. The wheel is supported by an upright on either side.
$2 \times 8$ or $3 \times 8$, which you choose, through which he shaft runs. Some have the shaft tight in the uprights, and the wheel turning on the shalt I
have the shaft tight in the wheel, and slip pox Simply wait until it is, as we have found by experienc
WEIGHT
 l, earings in the. uprights 10 run on, which makis, Before or immediately after sowing, we sow a small
it run easier. 1 think. (One advantage of having of thanter per acre. This acts very favorably
 he taken in turting the doge some will take ne, but nearl all will take considerable coaxThe material for thewe wheels can bee bornght weether, so tou planne mill, all ready the in mut
 ror

also the soil is less lian), to to perducked to a minimum
other to the sucker rod. This takes the swi
and allows the sucker rod to move straight and allows the sucker rod to move straight
and down. The rod should extend above crank, if possible, and a guide placed on it steady it. A six-inch stroke is quite sufficient.
If the pump is not too hard, this will gener If the pump is not too hard, this will generall plan on account of having too large a bucket the pump and the water low in the well. an ordinary wood pump, a $3 \hat{1}$ or 4 -inch bore
large enough. I have the line shaft fastened large enough. I have the line shaft fastened t
the joist overhead. Instead of connecting th crank immediately to the sucker rod, I have what we call a iig-stick, as shown in Fig. 3. This stick is fastened to the crank wheel by means of sastened to the sucker rod. A fulcrum is fastened to the joist overhead; to this is attached the jig-
stick, not in the center, but 12 inches from the stick, not in the center, but 12 inches from the thus giving more power to lift the water whee stick extends past the crank-wheel connection steady 8 inches, and to this end is a weight, to
jerk of the sucker, and also helps to This plan is working quite satisfactorily with The power is inexpensive, compared with a windmill or gasoline engine, and does light work, xtra chain wheel on mine, also two chains. The pulper is run from one side, and the pump the ed), the cost was less than $\$ 10$.
Huron Co., Ont.

GROWING CORN ON HEAVY CLAY
Growing hoe crops on clay land is discouraging work to most farmers, hence many do not attempt it The soil is liable to thake after sowing, it is often hard
to get the plants started, it cannot be worked in showery weather, and if the fall should be wet it is unpleasant harvesting the crop.
We have been farming such 30 years, and have farmed light lands for upwards of have been able to grow much heavier crops, with no In growing corn on heavy land, it the light one. that the land be fall plowed, as spring plowing Ally, cannot be brought into, a sufficiently friable con-
lition to produce good cormint airly deep, in lands 15 feet wide, and all water courses t will be in fine condition ater cannot stand upon it. prepare for the crop. for light land, is not the best 1.) clay, for the grood for light land, is not the best aats on the sod the season previous to krowing the tecayed, and mixes readily under cultivation, through
he soil, and is immediately available for plant food A sood coat of manure is necessary to add humus to applied in the spring (after the land has heen well
worked with cultivator, or disk steed bed as for a grain crop), io form a good and mixes more morse manure, as it is generally shorter besides being more heating and decaying inore rapidly We put it on at the rate of about 15 loads per acre reading it evenly, then plow it in with pang plow
dhis is imortant, as we do not want the subsail mixing with ooller, to leave a sinooth surface Level down with This leaves the four inches of surface soil well filled with manure, and in a fine friable condition if the Ork has been done under dry conditions. rapid. danker from frost is reduced to a minimun We have tried almost curry variety of corn on the
market, and have decided in favor of the fint variotie as most suitable and certain for us to grow. They hardier. bow hetter with the drill, mature earlier
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MAY 23,1907

If it comes up too thickly we strike out any bunches growth of clovers." The use of gypsum is rather
when hoeing, as when the stalks grow too thickly they advised against on a soil where lime has been ap-
produce but few cobs. We never use the harrow on the palied and produce but few cobs. We never use the harrow on the
crop, as we find it pulls up the manure and breaks too much corn. We work it with scruffler every week
(weather permitting) up to grain harvest; after that (weather permitting) up to grain harvest; after that
time the soil is fully occupied with roots, and any
more scruffing would only work iniury Nor is it more scruffing would only work injury. Nor is it
necessary to destroy weeds, as most are destroyed by
then. We go through the crop once or twice afterthen. We go through the crop once or twice after-
ward with a hoe, and cut out any weeds still growing. This article is written for the benefit of beginners in corn culture. Be the season what it may, we always need corn. It is a proftable crop grown for the grain
alone; the stalks, green or dry, make better feed than
timothy hay whe grow from tour timothy hay. We grow ind find no trouble in saving or feeding it. We feed liberally from the middle of August till the whole
is fed off (feeding no hay or grain), with the we that all our stock are in prime condition and in the We advise beginners to sow an acre this season. Buy guaranteed seed of a fint variety (about 1 i pecks
will be suffcient); make up your mind to have will be sufficient); make up your mind to have a
splendid crop; find out by personal experience its worth splendid crop; find out by personal experience its worth
and you will agree with many readers of "The Farm and you will agree with many readers of The Farm
er's Advocate." that there is nothing like corn.
FRED FOYSTON.
Simcoe Co., Ont.

RENEWING THE FERTILITY OF MARSH LANDS Our readers in the Maritime Provinces whose
holdings include marsh land, will he deanly in holdings include marsh land, will be deeply in
terested in a little booklet just published, en titled, "The Principles of Soil, Fertility Applied to the Worn-out Diked Lands." It is from the
pen of Prof. W. W. Andrews, Professor of Chem istry in the McClelan School of Applied Science, Mt. Allison University, Sackville, N. B., and is Agricultural Offices of the Potash Syndicate 1102-1105 Temple Building, Toronto, Ont. "One of the most pressing problems in agri-
culture in the Maritime Provinces," says Prof. Andrews, "is that of restoring the lessening ferfundy. One remedy is certainly effective, viz, opening the dikes and covering the lands with a new tidal deposit. But in hundreds of cases this is practioally impossible, on account of its cost.
It means the loss of salable crops for six, seven or eight years, and this, with all the incidental oxpenses, brings the cost up to $\$ 75$ or $\$ 100$ an acre. One such treatment, however, is probably
good for 100 years. Or, we may haul tidal mud from the river banks, und at a cost of from $\$ 30$ o $\$ 60$ an acre we can cover the land with a coatmay add chemical fertilizers-potash and phos-ohate-at a cost of from $\$ 10$ to $\$ 18$ per acre and, without any loss of crop, we can produce a highly fertile marsh, which will bear luxurious crops of hay for six years at least after one appli-
cation. Just here let us remark, for the information of Western readers, that it is not the praccice to apply barnyard manure to these marsh areas, which are in many cases quite extensive,
and a man's parcel of marsh may be several miles from his house and stables, which are necessarily erected on the upland. Besides the drawback of distance, it is always felt that the manure is needed on the upland without sparing any for
the marsh ". Experiments on the marsh at the Nappan
Experimental Farm and on some sections of the Wolfville diked lands seem to indicate that artificial nitrates are of doubtful value on the tidal use of lime, soluble potash salts, basic-slag phos-
phate and bone meal. These fertilizers stimulate the growth of clovers, and, therefore, by their use, we may indirectly procure for the soil all the nitrogen required without buying nitrogenous fer-
tilizers. These mineral fertilizers are cheap, as compared with the nitrates, and this at once makes easier the profitable solution of the prob-
lem." In the replies which came to the several hun-
dred lists of questions which Prof. Andrews sent out to the owners of diked hay lands, there was the above-named fertilizers (lime, potash salts basic slag, and bone meal) wherever they had been used. In one case, where a few ridges had
been treated with lime twenty-five years ago, Mr.
Geo. Thompson weo. Thompson, of King's Co., N. S., reports
that the good effects are yet visible. Rupert
Black, of Cumberland Black, of Cumberland Co., N.S., reports that his
father treated a piece of diked land with father treated a piece of diked land with lime
tifty years ago, and the effect is still noticeable. I' McNutt Patterson, of Acacia Village School reports a case in which the effects of a slight The use of lime were observable after forty years the use of lime on the tidal mud is summed up companying mossiness and corkiness ; it changes the poisonous iron salts into gypsum and iron
oxide; sets free the potash from the silicates of the soil; makes more available the locked-up
phi, bhates, and, with the potash, stimulates the
advised against on a soil where lime has been ap-
plied, as the gypsum is liable to be useless in As to the amount of lime, Mr. Geo. Thompson, whose experiments have been made on the largest scale, and carefully conducted, claims three and six casks was the limit of beneficial treat, ment. A "cask," we infer, amounts to forty-five bushels or thereabouts.
As to the
As to the use of other fertilizers, Mr. Thomp-
son's testimony is as follows: "In 1894 I dressed a four-acre dike-lot with five casks of lime per acre, and sowed it down to grass with
oats, and late in the fall sowed one-half a ton
he laid and covered in the old ditches, the joints with strips of zinc. This leaves covering work unbroken by-ditches, and therefore easier to the advantages uneral testimony has been, as to has resulted in an increase of crop-bearing sur face of ten per cent., in an increase of crop from twenty to thirty per cent., in less trouble with surface water, in finer texture of soil, and greater

LET EACH MAN EXPERIMENT.
The pamphlet concludes by recommending a simple plan of experiment, and urging each mars several hundreds of marsh owners would mak such experiments, the mass of testiof immense value We trust all ou marsh-holding sub-
scribers will write scribers will write
to Toronto for the One warning is given. On old and, diked lands,
and the blue dike, the use o to give results apt encouraging t h a ome may b tempted to depend on it alone. Whil as a corrective to acid conditions in the soil, and to the
poisonous oxalic poisonous oxali acid which is pro
duced in the sap o plants, still w must remember that

1,120 pounds) of basic-slag phosphate per acre with oxeye daisy, and light at that. The crop was good, and last yeur the grass cut three measured the acre, the clover a grand growth. I stood five feet two inches above the ground they an adjoining lot last year I spread 500 pounds bone dust per acre, and 200 pounds of muriate of potash in the spring, sowed down to grass with clover and timothy. Late in the autum I sowed half a ton of basic slag per acre, and now await results." Personal examination the following year, and written reports of the grass sales on


Fig. 1.-Mr. Geo. Thompson's Experiments on the Wolfville Marsh.
Fertilized with 1,120 pounds basic slag, 500 pounds bone dust and 200 pounds
accompanying photographs, show how well Mr Thompson's faith has been justified. It has been which can be reached. "My conclusions are that a dressing of lime and basic slag are the best for the blue dike, and for red dike, bone meal, muri ate of potash ( KCl ) and basic slag. This has As the blue dike is a poorly-aerated soil, which by proper drainage and cultivation will become red, in the end the smeme treatment is required by vation have correctel, the acidity, and set free some potash for the first crop, the addition of soluble potash and available phosphate immediately after the cutting of the crop will show bene-
ficial results in the following year's growth. Mr . Thompson is an enthusiastic advocate of underdraining by means of crock tiles at a minimum depth of two feet, and laid with a slope of
not less than one inch in one hundred feet. These that we much pleasur
when it candence in shaping the the work so easily. his kind of work done in the Bay of Quin the most of Hastings has confrrmed past roads in the counties. tem of roadmaking so long in use tions, that the sye ouncil has won ities, where for almost incredible, that in so many local good, and time can be made on them roads are really traffc, you come to short pieces here and there where even with a light rig one is not certain he will where the passage in safety. There are very many places of is usually the result of lack of drainage. Then, It a great many hills waish badly, as little or no drain age is provided at the sides of the road on the hil
slopes. Many of the clay hill sopes. Many of the clay hillsides are particularly
bad in the spring. They are, if anything and rutty than level sections in the same vicinity. It
drainage on the hillsides is just as important as on changeable weak force of gravity. Centrifugal force can
the levels. In may ang, Mr. Editor, that I beoliove the be made strong enough to do perfectry
people people generally mare walking up more than ever to the importance of better roads. They are coming, Keep
up your campaign.
T. G. RAYNOR.

EXPERIENCE WITH CEMENT FENCE POSTS WANTED
publishod of our readers will remember the article pubished on page 361, in "The Farmer's Advo-
cate ${ }^{\text {o }}$ of March $8 \mathrm{th}, 1906$, describing the making of reinforced cememt-concretescrince fence posts. making believe these have been tried by a number of Cana-
dian farmers, and wish to publish a number oo dian farmers, and wish to publish a number
short letters from those who have used them, ering such points as methods of construction, setting, serviceability and cost, compared wooden posts.

## THE DAIRY

TWO METHODS OF SKIMMIMG
used for the proftate
craves skitimming of man that can be
One is cravity-the old-time crock, pan or con metting system
in use ever since man learned how to milk in use ever since man learned how to milk, Gravity
is the force that pulls every object downward-the orce that gives all things every object downward-the force
pans, crocks or pans, crocks or cans theight. When milk is set in
on every particle of skan fravity pulls down on every particle of skim mirce or or crearity the pulls down
or can contains.
But this force of pan
 ticles, so that we pay skim milk is the butter-fat par-
builk for bulk. $\mathrm{In}_{\mathrm{n}}$ consequence


 There is a re $\qquad$
When millk is set away in pans, crocks or cans it begins at once to grow stale. One of the constinuent
parts of milik is the cassin or cheese part. The instent
nilk ben milk begins to grow stale, this casein or cheese part
 of invisible net or web all through tre mikn, and shit
web grows gradually thicker and thicker unktil web grows gradually thicker and thicker untill and this the solid curd or clabber of sour milk. This weo can-
not eos.
but in tis be detected until it has become very thick, but it is there, even though we do not oue very thick,
web torms it entangles and holds tast many of this
the
 mut of throng enough to pull the entangled fat globules
out of this cheosy net, or a considerable portion of the
 allowed, says. twenty-four and slow, gravity must be to skim a batch of
milk. And all that standing round taking up odors trom the air, growing stale or sour, and the fatentangling cnsein web is get-
ting in its work to every wey. The toss of cream sometimes amounts in Irom one-quarter to one-throm, sometimes amounts to
very warm weather; the othibr portion more in very warm weather; the other portion is left in the
skimmed milk and goes to make six-cent pork or veal
inotel instead of twenty-five to thirty-fixe cent purter. The
cream that is secured will be off faver, the but show the effoct, and stale or sour skimmed milk in not
the best sort for your young stock, even though suld the best sort for your young stock, even though such
milk be warmed before feeding. In this way gravity
consee the causes the dairyman a great falling or in quantity and
quality of butter, and in the value of the skin quant. or butter, and in the value of the skimmee
milk.
This figures up a heavy cash loss in a year. are all the pans, crocks or work upon dairymen. There
awey twice daily; noter they to filled and set set akimed, emptied and washed; also, the cold skimme milk must be warmed before feeding it the farmer do
sires to to noid bad results in his calves. All this
takes time and strensthut ooth in
 But how about the other and newer skimming force
-centrifugal Iorce e
How does it work ?
How strong is it? What does it ow ocompsist work? How strong
do? You have often watcherd that gravity fails to to You have often wathed mud fying on ans run
ning wheel you have doubless requently whirled
nail of nill or water about your had
 higher and farther than times, and sent it sailing much
Centrifual
hould throw it with your



sides of the
oward the
proper driving
ing off the ski
seles, and you
nachine that se
machine that separ
of centrifugal force
The
entrifugno force is
 slowly. Centrifugal force is so great that it cari wring practically the larsi drop of cream from the mink so quickly that the akimming of the ontire milk from
an ordinary herd may be finished, the single can of
 the calves before the skimmed milk can grow cold. The gradual growth of the casein web which so
seriously interferes with gravity systems does not terfere with centrifugal force. This great force easily breaks up this web in stale, cold milk and rescues the
imprisoned mprisoned butter-fat particles.
So what wilh
So what will you gain in dairy profts by using
centrifugal force, as applied in tho separator, instead of some gravity system in the trearn of pans, crocks or cans? (1) gravity system in the form sand times as strong as gravity. (2) A possible gain of onequarter to one-thind-
anetimes even more-in the guantity sometimes even moro-in the quantity of butter you get
from the same amount of milk under the same conditions, depending upon the separator amd how used.
(3) A Andin in butter qualty to five cents per poutter quality that will run from one (4) You will have frres, sweet skimmen milk, still
warm with the heat of the cow, which will be much warm with the heat of the cow, which will be much beter Yor your young stock than the stale, sour or
diluted skimmed milk from pans, crocks, cans or cream-
(5) You will have a single can of cream to set away
haul to the creamery instead of several or cans of whole milk to care for several crocks, pans the creamery will be decreased by at at least one thalt.
(6) You will require tel practically no pand require less storage room, less ice amd ducing the cost and labor of handling milk greatly reing milk utensils.
and carries the shauls his whole milk to a creamery and the time of his team and wagion in his own time and the time of his team and wagon in making his
daily trip. Every addition to the load he hauls sinks his wheels so murh the deeper into the mud, or wrings
the sweat so the sweat so much the more freely from his horses.
He must haul one load each way every day s and then He must haul one load each way every day, and then
the man who takes skimmed milk home trom the creamery gets a stale article, diluted with washings, whioh may be the means of introducing into hiss stock tuber-
culosis or some other disease which afflicts some neigh-
bor's herd

## MILKING - MACHINE PROSPECTS

 month from New York, thus summed ap the last on of milking-machine prospects There is much of a tendency to diseout as usual maccaines. The foot-power machine has tested by quite a number about, and has in beer case, 1 think, been discarded. The hand-powe Globe machine is now admitted by its mand The turers to be an infringement upon the Burrell and is controlled by the Burrells. In two cases of Lawrenoe-Kennedy-Burrell machine seems to be the one now which must sustain the reputation the milking machines, if they are to be sustained may yet come to the front with a claim of ef ficiency, but the public in this vicinity is notlooking for it to be done.
are likely
The next few monthe are likely to tell considerable of a story regarding the real claims of the machine that people are still
looking to for success.
Fortunately Fortunately, many of the
tests are in the hands. of men who will be able to make them very thorough.

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after cold facts.
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I have been keeping cow reconds since 1906. It seare and blank forms tacked on a board have a mupring
naill 1 started because each ang on


 You are interested in your cows, and detect a sorrectink
go at once, and onquire the cause, and in most or
asses Iearn the cause.

SWINGING STANCHIONS WITHOUT STALL PARTITIONS.

Value of a good dalry sire. is half the herd Wilber J. Fraser, Chief in in Dairy true, writes Protesso
University of luin queathed to the calves the male, parent furnishee beo The cow infuences the character of but one calt the bull passes on his personality to many calves, chosen, halt the character or ainary size. When he it mined. In a herd of forty cows his calves is deter. much as that of the whole number of cowa taken to. If he is of stronger prepotency than most of the y and strongly to the progeny which is mosere sure case with a well-bred sire-then the bull represents more than half the herd. In that case more than half the dominating half Now if the sire, as an individual and in and gree, is superior to the cows-and this will be true Where a pure-bred sire is used on a grade herd-the value (of higher quality or greater cuantity) be of more that come from the mother, and in this sonse also the sull will be more than half the herd.
each year he starts out a generation the seral years. ach year he starts out a generation of calves more
than half of whose qualities and strength were tron mitted by the sire. This single step is a great im. provement. But his successor, of similar type and
breeding. mated to thoe improved heifere ireading. mated to those improved heifers, carries the
improvement forward another step, fixing the ounalites anprovement forward another step, fixing the qualities
and the power to transmit them
more
surely
and strongly, carrying them to a higher degree and elimi nating defects hal have come from the mother's side selected sires goes on increasing and intensifyng the improvement of the herd. In this way the sire tocomes threa-fourths, seven-eighths. fifteen-sixtoenths, etc., tically "t the sire is prac So the sire may be
whether judged by the strength, quality rifect of the characteristics he transmits. It is liter at slight expense, completely trans. within a few years.
and more than double its proft a Good business proposition. One can obtain a fine dairy sire for \$150, and forty
krade cows for $\$ 45$ each, or $\$ 1, \$ 00$. Then a good bulf costs only one-thirteenth of the investmenti or, in other words, one-thirteenth of the investment is so placed a to exert more infuence in the improvement of the future
herd than the other twelve-thirtenths of the invest. ment. Tsn t that a kood business proposition? spent than any other' $\$ 100$ invested in the betrd Forty-onan animals are purchased. The purchase of one animal will infuluence the succeeding herd more than the
purchase of the other forty animals. Surchase of the other forty animals. Isn't it worth
while then to selection of that one, the sire?
breeting for improvement, the milk record of the sire's female ancestry is of just as much importance as
that of the ancestry of the cow with which he is that of the ancestry of the cow with which he is
mattod-is of more importance if the sire's ancostry has And the good dairy sire, pure-bred, is almost certain o have a line of dams with a superior milk record:
hey have been bred for that very thin hot these dams have been tested, so the actual figures Can be given, they are far more likely to have been
hikh-producing cows than are the dams of the grade Cow. One of the very greatest things to oecure for the
heifier calf is the inheritance of a large enracity tor heifer calf is the inheritance of a large capacity for
milk production, and this comes from the mothers in The calf will be much more certain of getting a high degree of this quatity throurh an improved sire
than from a grade mother sire's ancestry affects all his female progeny-all the record in the cow's common-sized herd. But such at year (and not that many unless they are all heifers). And in general as to all the goord qualities that it is desired to transmit, it should be clearly recognized
that these may be secured far more surly from the
pure bred sime than from the general run of grade cows. Nothing is more cortain than this. But all that is
here urged for the great value of proper breeding is no
excuse for a poort or weak animal, simply because he is
 herd unless he is also a thoroughy goond and strong
individual, exhibiting in himself the typical characEvery man who has had any pxtentao experienco




## THE FARMER＇S ADVOCATE

air，finding itself without a queen，will in a few
minutes commence to return to where they came from，and will run into the hive placed to receiv the queen close to the entrance of the hive，and the queen close to the entrance of the hive，and
she will go in with them－and there you are．No climbing trees，sawing ofi branches，wasting time， getting bees down your neck，or anything． course，this method requires that the bees be
watched for swarming，but even the watching can be eliminated if the owner of the bees will take a few minutes once a week in the evening，or any
time，during the swarming season，and examine his bees for signs of swarming；and when the signs are found，either make an artincial swarn most of the combs of brood and substituting ampty ones．This latter way，however，will not erove successful except in the early stages of the So，instead o
summer，and perhaps make your bees run you this business，take a hand in the running operation manage as the pigs or the bees just as easy to o know them pigs or the fowls，when you get quite as much，or more，for the time bestowed on

## FOUL－BROOD INSPECTORS

The Ontario Department of Agriculture an－ nounced last week the appointment of the follow－ ing in

Divin 1：－Len and Admer Fast ；Matthew B．Hold Addingt Division 2．－Victoris，Peterbor， land，Durham，Prince Edward and Hastings （none）．
Division 3．－York，Peel，Simcoe，Dufferin，On ario and Halton，H．G．Sibbald，Claude．
Division 4．－Wellington，Waterloo，Peith，Hur－ on，Bruce，Grey J Alpaugh Division
Kent，Essex，
5．－Norfolk， side．
Division 6．－Wentworth，Lincoln，Welland， aldimand，Middlesex；Wm．McEvoy，Woodburn． o． 2 has not yet been filled，but it is hoped the appointment will be announced at an early date． The inspectors will be on the same footing，and partment hopes，however，to make their work as much as possible educative rather than coercive． It was found that under the old system of one
inspector that the Province could not be properly inspector that the Province could not be properly
covered during the season of the year when the foul brood should be properly treated．We hope that under the new system practically all the dis－ son，and if this can be done，there is reason to expect that the disease may be virtually stamped beEKEEPERS＇CONVENTION AND HONEY SHOW In reply to a letter from＂＇The Farmer＇s Ad
 tary P．W．Hodgetts informs us that，while at a was mapped out，it is not yet in shape for publi cation．He tells us，however，that it is the intention of the Association to procure，if possible， the services of a number of eminent beekeepers
from the United States，as well as the best local Arrangements were also made in reference to the honey section at the Horticultural Exhibition which is to be held this year，Nov．12－16，in the
St．Lawrence market arena，Toronto．Last year instead of offering a a prize－list，a combined ex，
hibition of honey was made by the Association hibition of honey was made by the Association．
This，however，was hardly satisfactory，and we purpose this year to revert to the prize system．
It is proposed to offer about $\$ 250$ in the various sections，and a number of changes and additions have been made in the list of two years ago．With
a favorable season for the apiarists this year，a
very successful exhibit should be the result

THE FUTILITY OF REVENGE
What a childish thing is spite．It is an at－
tribute of the narrow－minded．No one ever really tribute of the narrow－minded．No one ever really
succeeds in villify ang anybody but himself， succeeds in villifying anylody but himself，
although he may sometimes cast a temporary
shadow over the reputation of a neighbor shadow ov that always ur own enemies we manifest enm There has never lity on irimendshiends，according as than this

## POULTRY

## HOPPER FEEDING．

dry feeding fowls saves a great deal of time，and consequently enables a person to care for a much larger number with the same amount of time and
attention． Within
ment has been made in the methods of dry feeding that it has become almost the only method used an large poultry farms．When one feeds only once a day，or once a week，one can handle so many
more fowls than by the old method that the profits are much greater
A person who has always fed certain quantities，
carefully measured according to the number carefully measured according to the number
fowls，naturally looks doubtfully at a method feeding which allows the fowls to help themselves when they like．He fears overeating and indiges－ fon，etc．But one method of feeding cannot be method．For example，when a flock of hens have been fed，say a quart of grain，three times a day， and you set a dish of grain down in front of hey can hold．It proceed to gobble down all the dish were left there and always kept full that they would continue to gorge themselves，but any－ one who has tried it knows that this is not the
case．Fowls that have access to little now and then all through the day，but never much at a time，and will run about digging for bugs and worms quite as industriously as hens fed twice or three times a day．Growing chicks
which are fad all the mash they will eat three times a day，will consume more grain than if they have dry grain always before them，and fed no
${ }^{1}$ There is much dispute as to whether hens will a poultry－raiser mashes or on dry grain．When changes other suddenly changes from dry grain in an he also may get a smaller number of to mashes is sure that the new method is not so good as the old．Any sudden change lessens egg production． larger number of chicks live and thrive when dry feed in hoppers than when fed mash at inter vals；hundreds of chicks owe their early deaths to wet corn meal．After chicks are old enough to eat whole grain，if given the run of a hopper
full of grain and free range，they will do better than by any other method of feeding．
get into for the henhouse which the fowls cannot
taking an eight－inch board，one can make it by feet long，according to the number of hens．This Dail makes the bottom of the trough or hopper Nail two eight－inch pieces，sixteen inches long，on the trough－bottom four inches，to keep it below the floor．Let the end pieces project upward from the bottom twelve inches；then saw the upper ends of these end pieces like the gable ends of a
house，to carry the roof of the trough ：then nail a three－inch strip along the bottom and a nail inch strip at the eaves，and nail lath strips an and down between，wide，enough apart for the hens
to put their heads in．Nail two loards to V－shat their heads in．Nail two boards together you have a cover which can be lifted off to put
the grain in．It will keep the rain out if you Wowls from getting into the grain when used the
 mind before trring hopper－feeding disappear one＇s
it is used．There is absolutely no doner growing chicks will eat too much danger that
that laying hens will overeat when nor range．When confined to the when out on free
weather，hens should be fed in cold weather，hens should be fed oats in a hopper and
a morderate amount of wheat in the litter．Those
that lay will not fatten that lay will not fatten．Those that do not lay
and gat fat can be sold to the butcher．
（rossfiald al

GUINEA FOWL

$\qquad$ is at hand，a few remarks about them may be to appse－
ciated hy your readers．It is now when the hawks are hungry，the chickens．It is noung and whaten the hawks
the grass not long enough for them run，and the grass not long enough for them to hide in it，that
guinea fowl are a great protection in the poultry that for by their shrill cries they keep the hawk from at－
tack．About six years aco we were thribly tack．About six years they keep the hawk from at－
with hawks；they torribly bothered
a4 ducklings in one week with hawks，they took ago we were terribly bothered
spite of scarecrows，etc． 24 ducklings in one week，in spite of scarecrows，etc．The next spring I secured a
pair of guineas，and have kept a pair every year since
then，and have not lost a chick by the hawks ；and， besides preventing the at ack of the the hawks，and，
rid the yard of reptiles，even attacking and killing also rid the yard of reptiles，even attacking and killing a
large garter snake．Gininea fowl should be kept in
pairs and allowed fre

## GARDEN 新 ORCHARD．

HORTICULTURAL PROGRESS．
Macoun，Horticulturist，Central Experime w
y，as they contain may be reviewed but briel－ are all very useful in furnishing the most recent Spraying calendars are published by the trea Agricultural Experiment Station，of Ames． other spraying calendar in bulletin form，is Bu
letin 245 of the Cornell Station，Ithaca，N．Y．，and Layfayette Indian Another bulletin is＂Insects of the Garden，＂by Albert F．Conradi，being Bulletin 89 of the Texas Texas．This is a well－illustrated bulletin which are described many insects which injur truck crops，with remedies for same．Bulletin ment Station Wyon，the Wyoming Experi ＂Some Potato Diseases
NEW ONTARIO BULLETIN ON THE SAN JOS The San Jose scale is receiving much atten tion nowadays by bulletin writers．One of the ＂Remedies for the San Jose scale＂＂ind entitled as Bulletin 157 of the Department of Agriculture Toronto．This contains the latest information in regard to the scaie，and the best methods controlling it．There is also pul
copy of the San Jose Scale Act
SOME MAINE EXPERTMENTS IN ORCHARI
Orchard Notes．1906，Bulletin 139，Maine Agri cultural Experiment Station，Orono，Maine，by W port of the progress of some orchard experiment which are being conducted by the Maine Experi chard renovation culture and fertilization，in or There are also notes upon pruning cover crops For some years an experiment has bee progress to determine the effect of fertilizers on the apple crop，and to compare the resulto from
trees grown in cultivated and mulched soil trees are kept in cultivation，and forty are mulched．Part of each receive fertilizers．The ated ground and where the soil grown in culti－ not yet regular enough fore soil is mulched is reliable．Sometimes more fruit is obtained from ne，and sometimes from another．Unfertilized during the growing season have a half－starved as with yellowish foliage．Barnyard manure fertilizers．It is believed that than concentrated oo the humus which is added to the soil by due use of manure．An orchard of one hundred trees under an rom thirty－five to forty years ago，is different methods of renovation the effect of egliment was begun，in 1902，the trees were in ex for ten years．In 1902 a pruntion had been done was thoroughly cultivated，and different chemical
iertilizers applied to several parts of it Tertilizers applied to several parts of it annually
from 1902 to 1906 ．＂The effect of the treat－ ment given this orchard is visible as far as the
orchard can be seen，and from a hillside one－ half mile distant the different plots can readily
be distinguished hy reason of difference in color and vigor of foliage．On these plots，from which
nitrogen has been withheld，there is now a decided
lack of lack of color and a weak gro is now a decided
neglect，while on plots receiving nitrative of alone or in combination，a vigorous growth rich，deep－green foliage are evigent．＂growth and a light sandy loam，with gravelly subsoil，and is naturally lacking in nitrogen．No improvement
was noticed where potash and phosphoric acid were used，either separately or together，but the
best results were olstained from a complete ferti of soda， 200 pounds muriate of potash，and 201 are two－thirds of the per acre．These amounts
first three years trees has been marked at the Maine of difitiorent trees of the same age and the same varion，some
ing much better than marked at Ottawa，where records have heen kept
of the yields of individual trees since 1898．Trees grown from scions of these trees have been set dividuality is perpetuated．The value if this in－
cover crop for steep hillsides as a is emphasized in this hillsidles，to prevent washing．
devoted to the principles．Several pages are

MAY 23,1907
ORIGIN OF SAN JOSE SCALE
he a San Jose scale is believed by entomologists to be a native of China, where it semoms to be
held in check more or less by a tiny ladybird or adybug which feeds upon it. How it reached America is not known, but it was discovered in
the San Jose Valley, in California, about 1879 A iew years later it was found in two New Jersey nurseries which had been sending out large quan-
tities of stock, and on this stock it is to have been distributed to all parts of the United States. At first it seemed probable that it would
not live, or at least would not become a serious pest, in the more northern States, on account o have adapted itself in a most accommodating way, becoming gradually more hardy. It was ound in Ontario in June, 1897, in an orchard erally throughout the fruit-growing sections gensouthern Ontario. Entomologists now confine its anadian field to a zone south of a line running whether they are correct or not in to Sarnia, but he proven. Fortunately, our fruit-growers have recome pretty thoroughly aroused, and are fighting it heroically in infested districts with the eason, both spring and fall. Directions formant paring this have been repeatedly published in hese columns, but for fear some careless reader to our Calendar Guide to Spraying, issue March
28th, 1907 .

## THE FARM BULLETIN

A Northwestern lumberman, referring to the c
shortage, inquired pertinently,
the inference what is a freight car? The office repeated the inquiry, and receently seen on ing contributed information
ing the freight car belongs to the fowl family. D
nearly pevery
nad early summer it can be found ing the spring and early summer it can be found in
nearly every part of the country, its favorite haunt
being near railroad tracks being near railroad tracks, and it it it easy favorite haunt
ture. In cap-
In autumn. however, ilie certais prey ture. In autumn, however, like certain other fowl, it
coes into hibernation, or flies away to other climes.
Scattered incidents Surtered incidents are known where specimens are cap
tured during the autumn months. A lasso greased switch crew is sometimes used in snaring freight car, but main strength is the best weapon. I
any case, the kunter must be very wary, as any noise
like the fun any case, the hunter must be very wary, as any noise,
like the fluttering of a way-bill, will make the quarry
disnppear "Some railways own large flocks of domesticated
freight cars, but they are carefully guarded during the freight cars, but they are carefully guarded during the
closed season. The wild fright car, when caught and
fairly loaded up. becomes perfectly retation

STATIONARY ENGINEERS' CERTIFICATES tassed an act respecting stationary its recent sessineers, in which
cngineers and employers are alike interested stated, its provisions are that. after the July, 1908, no engineer will be allowed to operate o have charge of a stationary steam plant of 50 horse
power or upwards who does not hold a Government
certificate power or upwards who does not hold a Governmen
certificate. There are three classes of emgineers
to whom certifcates will be granted without the applican
having to undergo an examination : first, those who aving to undergo an examination: first, those who
on the 20th of Aprin, 1907 (the date on which the Ac was passed), held certificates from an association
stationary engineers in Ontario, or a marine or motive enginger's certificate; becond, engineers or who on
the above date were in charge of a plant of 25 horse the above date were in charge of a plant of 25 horse
,ower or over in Ontario ; thind, engineers who hadd at
any time previous to the pesing on than two years' experience in the operation of such plant in the Province. Those who cannot qualify a
above will have to pass the examinations which will above will have to pass the examinations which wil Those interested may obtain a copy of the act and application forms for certificates by addressing "" The
Secretary," Department of Agriculture, Toronto.

## COMING SHOWS

(1) June $5-10-$ Bath and West of England, Newport, Mon. don. Fncrland Tune $13-15-$ Winnipeg Horse show.
coln.
roval Agricultural Society's Show at Lin laly. $\begin{aligned} & \text { coln. } \\ & \text { at } \\ & \text { at Fdinherghat }\end{aligned}$ Find Agricultural Society's Show 13 13-20-Winnipeg Industrial Fxhibition, The Bureau of Animal Industry of the 「nited States
1,w) 1.phartment of Agriculture at Washington will have the
Mhicial veterinarian of the Department make an investi-

THE FARMER'S ADVOCATE

QUEBEC NOTES
The sunny skies and balmy breezes peculiar to this season are longed for by the agriculturist who is de-
sirous of getting the seed in the soil and the stock to the pasture, and so divert the labor hitherto required busy with those trying ordenle genial helpmate is garden-making, which do not seem to bo seasonaty done unless we have a shining sun and a cenial warmth in the air. At last, on this middle day of way we have this ideal weather, and we see some sign of bursting buds, and appearance of verdure again. Meteorolobetween the late spring and the wo connection earthquakes and sunspots that have characterioze, the past flew months
that the there are these who even tell $u$ us that the great stretches of steal railroads girding our
continent are having a very marked effect on tho clectric currents of our atmo asphere, affecting our our climate ecectric us late spring seasons, and accordingly late autumns Suffce it to say, we have experienced the latest spring
since e 1897. Not over half of the seading is done yet, and that on the best-drained land; on the low-lying
and lends little seding has been done. Young cattle have
been sent to pasture which, been sent to pasture, which, although not good, will
enable enable them to exist; farmers desiring to keep the extra
feed for the milch cows, which cannot he turned
 spring, as fow farmers have any feed to carry over. At the first meeting of our dairy board, butter sold for 21 t..., and cheose for 12 c.; about 3 cents more for
butter and $1 \ddagger$ cents more for cheese than at this time



Masterpiece (imp.) (11822


railway carelessness punished
Conductor Joseph H. Thompson, whose special fruit train collided with in G.T.R. passenger train at was convicted of violation of the company's september sentenced to three years in the penitentiary by Mr
Justice righteo Ridaell, who commended the jury for their hours per He had been working 19 or 20 failing to warn the engineer of approaching danger
Unde with the rules he had a rest of elght hours per day more money. $\begin{aligned} & \text { His } \\ & \text { His } \\ & \text { Lordship an also proposed to make }\end{aligned}$ the proceedings to the Crown authorities with repor mendation that all persons responsible for permitting as far as the criminal hours be ailso proceeded againg ployer and employee should be punished and Both em done to protect the public in Canada, when through and negigence and preventable causes the slaughter and maiming of people was going on day after day
upon the railways.

## P. E. ISLAND.

done this writing, May 13th, there is almost nothing done on the farms. Two days ago we had a fall of yet. This is the latest season here sinceary all gone Chere was very little planting done till after the 20th dries up. Things will have to be rushed when the land The lateoness of spring is causing tate to do its best. and we fear many cattle will ao tortness of fodder, and we farr many cattle will go to grass too soon,
and in very Clover has not stooot the
Winter well, and in many
ine new meadows it is of the new, meadows jit is
killed killed out entirely. This
is $a$ very serious drawback to stookmen, and tho great question is how to supply other feed in ite
place. Oats and pen ond place. Oats and pae cout
green and cured for hay,
and a and a good big patch of corn to cure for the cattlo
in the fall will be getret
help, to make up ory hesps of of clover, and will for tho
litan
 Clirough the, next wintor
Plenty of peas and to cut of preen for the oats
cows in Aly ing cows in August will put
dollars in the dalirym pocket next fal Navigation has onty
just opened up here. Thero is yet much ice in ithe
siraits
and in the the siraits
There
ti
ti from the north sipping of
the tsland yot.
 good many fat cattle are
going forward
sicotia market Scotia markets. The beot
steers are worth five oente per hundred pounds. ©ont
lor explert to 84 c .; potatose, 45 ce . per The country is being
hunted huners over by hors
buyers it never tore. Prices for wany kind are good, but heary-draft
horses bring bit horses bring big Agures
from $\$ 175$ to $\$ 225$. kind are scarce here. This are still too many of the
smaller kinde mate
${ }^{18}$ offered. There has been a great mortality among hid not get the required exercise; also, the root crop being a failure last season, more grain was fed to the
brood sows; this, with lack of exercise cwed pigs to come weak and lacking vitality caused the young Horses were "soaring" in this vicinity the last few
days. Almost any price coutd be realized if one had a good beast. Quite a few pure-bred Clydessdales a
some drafters have been bought son Reef is very scarect in for the Northwest. not be sufficient beer here to supply the tocal demand
until the The factories oct olll under way in the quantity of millk usually received this gime ting the year. The condensery is paying 8 per cot.. and
cannot get suffient milk to make up to fill their orders.
Hunt

4NDEPENDENT TELEPHONE ORGANIzATIOM One thousand managers and presidents of inde-
pendent telephone companies ind the United States and
Canada are to meet in convention, Uune 4 th, 5th and 6tha at are Chicago, aeet in convention, June 4 th, 5 th and
International Independent $T$ Tele

County, has imported last year. County, has imported a Fron. David Reid, have come B. Roper his is is the first French Coach horse, and Clydesdale, and the rted a Hackney and also Jame brought here last fall
These breeding excellent sires will pe a great and Clydesdale. ers. The dack, and will be largely preat addition to our ars. The dairy companies are preparing forized by farmis favorable, which will likely be realized for a big seawill be quite for grass. The prospect of the season Mr. A. M stimulus to milk production:
s arranging he will attend here in the horticultural meetings which have got through winter without much damage trees snow or mice. Strawberries have wintered well. Quite
a few farmers are arranging to culture in growing alfalfa a to experiment with nitro-

It is announced that the new regulations raising the
ostage on second-class mail matter postage on second-class mail matter from the the United
States from one to four cents per pound will the prices of American magazines to Conadian sub-
scribers from $331-3$ to 50 increase

CANADIAN APPLE TRADE IN ENGLAND and Hull, Engsland, writes the Department of Trade and Commerce, Ottawa; an excellent article on the prospects and in Glasgow. From the north-east of Engłand Canedian olarchow. From the tenor of his remarks, as compared with the United States product in faver as compared with the United States product. What
he has to say about the results of shipments direct from the producer to the Old-Country dealer affords
ground for substantial encouragement to ground for substantial encouragement to our co-oper-
ative fruit-shipping associations. We quote Mr. Jackson practically in ful
THE NORTH OF ENGLAND AS A CANADIAN APPLE MARKET
In the counties of Yorkshire, Durham and Northum berland, which form the north-east part of England,
there is a population nearly equalling that of the whole of Canada, almost entirely dependent upon foreign
sources for its supply of fruit. The United St been catering to this market for yeates, and with the newly eatablished service of liners between Hull and Australia, the latter country has now entered the field.
Cape Colony has also recognized the importance of this Cape Colony has also recognized the importance of thi South African grown fruit, especially in pears.
The most remarkable deselopment, however, which
has occurred in receant years is the great expansion in has occurred in recent years is the great expansion in
the imports of Canadian apples. Acording to the the imports of Canadian apples. According
most reliable estimates, three-fifths of the apple have been oflered for sale in the three north-enter coonties during the past season were shipped here by
Canadian growers.
Ontario contributed this supply, the shipments from Woodstock most to ville, Dundes. Pelermo and Cothorne being especially plentiful.

PROSPECTS FOR NEXT SEASON'S TRADE.
Judging by the preparations which fruit salesmen
e making for the coming season, there is every indica are making for the coming seesion, there is every indica-
tion that the imports of Canadian apples will even sur-
 porting fruit direct from the actulal Conadian grower
to the merchant house on this side, which originated from the number of inquiries that have which originated
thaveared in the with so much success last season, the trade even then was considered remarkable. Now that the season has finally drawn to a close, an estimate can be formed of no less than 53,000 barrels of Canadian apples came direct to Leeds, one firm alone accounting for 35,000 of this number. This does not, of course, include the ship-
ments sent to Hull. Bradford. Sheffeld Newrestlo Tyne, and other large centers in the north of Fnglandneither does it account for the thousands of barrels; which have been purchased by auction at the Liverpool With a reliable Canadian packer and a reputable English merchant house, local salesmen have begun to
realize that this direct trade can be conducted with perfect harmony. Tirere is is not the least doubt that season, in order to see what success their more go-ahead competitors would meet with, will, themselves, be ing under this system during the coming season, as the
strict Government inspection of Canadian apples before shipment (which is coming to be a well-known fact on
this side). gives them a greater confidence in buying Canadian-packed apples over any other fruit. ARRANG EMENTS FOR SHIPMENT.
Canatian growers should be able to secure direct through-freights to any local center, either by the Man-
chester Liners, Limited, or any of the Liverpool-Canachester Liners, Limited, or any of the Liverpool-Cana-
dian lines, or the Thomson Line, which has direct sail-
ings from Montreal to Newcastle-on-Tyne during the season. In addition on these, although there is no
direct service from Montreal to Hull it in direct service from Montreal to Hull, it is quite pos-
sible that steamers belonging to some other line will
make direct sailing to that port from Montreal.
This was the case last season, when the ss. Oxonian and the
s. Virginian, of the Leyland Line, phade several voy-
ages direct to Hull, with cargoes, of Camadian the question of remresentatives. Muring the past $t$ welve months a deoper interest has
been taken in the possibilitites of devlloping this market
by Canadian apple shippers. by Canadian apple shippers. Several Canadians hav
visited this office in connection with the fruit traffic
and have been introduced to ". would-1e ", importers
ind which has led to business relations lowing established
It would undoubtedly be a goord thing for
 standing, a matter which is one of the utmost impon There need be no doult as to the reception thry would touch with good Canadian puchens ins the lat ter ar.e a is shown by the num
who visited Canada
making arrangeme
ments of apples to
CANADIAN

Some of the represental
ported that fruit-growers in that country were conon the British market, and the preference shown for them whenever they could be obtained. This they
rributed dian apples before shipment, and some exporters are said to bo asking that the United States Government
should adopt a similar inspection to protect the repute should adopt a similar inspection to protect the reputa-
tion of United States fruit being further injured by unscrupulous packers in that country. There is also a unanimous opinion among local fruit men that the of their barrels lackers reduced both weight and the size
selling apples by weight
A suggestion is made by a Hull fruit importer that
Canadian apples should be sold by weight known superiority in the weight'of Canadian apples over Scotland, and for this reasonas long been recognized in apples into Glasgow tean equalled those into Liverpool. The practice of selling aples by weight has also been adopted to a certain barrel have stencilled importer suggests that each the barrel and the net weight of the apples alone Take, for instance," he says, "a barrel of Canadian No. 1s and a barrel of United States fruit of similar quality : the Canadian barrel, on an average, weighs
about thirteen stones, whereas the United States barrel will only weigh about twelve." Under the present sy tem of auctioning fruit in England, the buyer choose the most attractive looking of the two, ignoring the
fact that if he decided on the United States barrel he is paying the same price for twelve stones which would enable him to purchase thirteen stones of Canadia apples. " The Scotch buyer," he states, " approaches
this difference and insists on buying by weight alone this difference and insists on buying by weight alone
the appearance of the apple is not the only considera tion to him.

## SySTEM OF PACKING.

'saild that barrels are mostly employed, 90 per cent the Canadian apples which arrive in thisp district being
packed in this manner. packing the highest class fruit, which are bought by the salesmen on this side for supplying a special trade Canadian packers are also strongly recommended place a sheet of cardhoard at the top and bottom
each barrel before nailing down the lid. as this a preventive to dirt and grit making an impression
upon the fruit which forces its way into the barre upon the fruit
during transit.
FINANCIAL ARRANGEMENTS.
The financial arrangements which may be made be
tween the Canadian grower tween the Canadian grower and Enclish buyer, is,
course, a question to be decided between themselve and the majority of the firms prefer to pay cash against bills of lading, providing they know the packer o
shipper, the kind of apples, and style shiper. the Kind of apples, and style of packing which
he uses. Still, I can see no reason why a large comm
mission trade should not be done with the merchants the interior cities, just as safely from a financial point of view as with brokers at the ports; and when
shipper's apples are once in demand by sales on coml
mission, he can turn his business into any time.

## THE LABOR PROBLEM IN GERMANY

 pects for German a press despatch of last week, prosis said to to Canada are slim. is said that Germany has ceased to export men, but is
rather importing Russian, Polish, Hungarian, It and even Enclish labor. The scarcity of help is par
ticularly acute on the farms, which are drained by the
military acote military conscription system. Count Von Posodowsky
Wehner, (ierman Secretary of the Interior, is reporteml as having thus explained the situation in an interview: years' taste of town life becomes hopelenssly alienated
from rural pursuits. He prefers to bo an attendant at
a Berlin hotel rootman in Cologne, a waiter in Munich, anything to
preserve him from his newly acquired ennui of
anid preserve him from his newly acquired ennui of existence
amid the hayfields."
The influence of these men on their sisters and sweethearts operates to threwe men on their sisters and sweet-
try to the towns. The result is that rist from 'the coun-
fering than the maintenance of the standard of mercos A TEST OF SADDLE HORSES

## \$1.23 PER EIGHT-GALLOH CAH

 handed out their decision last week, according to which the price for the six months, beginning May 1st, $\$ 1.23$ per can of eight gallons delivered at the dairies delivered at the appears to be understood that milk The producers had boen holding out for $\$ 1.30$ per can, they could afford to pay. During the arbitration allthe retailers offered to compromise at $\$ 1.22$. Both sides are bound by their agreement to accept the decision,
viz., $\$ 1.23$, and it is stated that there will be no increase in rates to
tration was $\$ 110$. $\qquad$ The cost of the in-

OLEOMARGARINE VENDORS TO BE PROSECUTED Inspectors of the Inland Revenue Department las week found six dealers in the City of Quebec and two butter. This is a violation of two acts, one whit forbids adulteration or substitution in food, and the other forbids the manufacture or sale of oleomargarine in canada. Proceedings are to be taken against the
eight dealers on both provisions of the law the first oleomargarine which has been found on the Canadian market for some time. It is believed that it was brought in from either the United States or New tolerated. It is forbidden in Canada, for the protec

THE FLOOD OF IMMIGRATION Immigration returns for the first four months of the all sources of a little over 80,000 , as Canada frou 56,369 for the first four months of 1906 . That it increase of about 43 per cent. If the same rate of in crease is kept up for the rest of the year, as seems will he close to the estimate of 300,000 mede antm time ago by the Immigration Department.

STOPPING GREEN - CHEESE SHIPMENTS After hearing the letter read from Mr. J. A. Rud-
dick, Dairy and Cold-storage Commissioner, on the shipping of green cheese, the members of the Eastern Town ships Dairymen's Exchange, at Cowansville, unanimously
agreed, by resolution, not to ship any cheese from theit agreed, by resolution, not to ship any cheese from their
factories under ten days' old. The action of the
Cowner Cowansville Board shows they are alive to the im
ortance of this question. ANGORA GOATS
In a recent issue of "The Farmer's Advocate"
notice G. R. inquiring about Angora goats. If be
has some stony has some stony land, well fenced, he would, I think,
make more money out of goats than sheep. advise him writing to Division of Publications, Depart ment of Agriculture, Washington, U.S.A., asking for a
copy of their bulletiu on the Angora goat. 1 it is the best thing on this question of goats I know of.

Whatever may be the price and harvest of the wheat
crop this summer, the birls in the stock markets have
iound ample excuse in the present situation to work up
a bir scare and
big scare and a long advance in price. Advices from
Gurope, save only France, are reported unfavorable, while the condition of the United States fields falls short
of the promise of last year, and in our own Northwest. of the promise of last year, and in our own Northwest.
which is coming to be regarded as an important factor which is coming to be regarded as an important factor
in the calculations of speculators, the late spring gave rise to ominous forebodings. However, there may yet
be a good cron in the Canadion Northwest be a good crop in the Canadian Northwest, while there
is no telling how prospects abroad is no telling how prospects abroad may improve with
favorable weather from now on. There are few eventualitive more uncertain than the price of wheat, and
while prospects for prices look decidedly encouraging to bank too much on the outcome. A news item in last Saturday's daily stated that
four school sections in Guelph Township, Wellington Co.. Ont... vected against the continuance of the Mac-
donald Consolidated School at (iuccluh Thin the donald Consolidated School at Guelph. This hooks as
though it will be necussary to revert to the old system. one extra expense to the section of carrying the school two mills on the dollar. lut it would seem as though
some other motive than parsimony must be responsible for the reactionary movernent. Evidently there were
Evide Tor the reactionary movernent. Evidently there were
those who hadd stet their faces against the innovation
Whom nothing could have satiosfied. Possibly an experit
may 23,190
THE FARMER'S ADVOCATE

MARKETS.
TORONTO
Live stock
Receipts of live stock last week at bo the City and Junction markets we
Iarge, 383 loads, all told, consisting Iarge, 388 loads, all told, consisting
5.965 cattle, 3.287 hogs

 might be expected, that is, the per-
centage of good to prime quality wa
small small, although there were a few well
finished loads, bought up at. prices 15 c . to 25 c . per
cwt. higher than the week before. Re ceipts of cattle on Monday at the Junc
tion were 100 cars, of slow; bulk, $\$ 5.25$ to $\$ 5.35$; sheap, $\$ 6$ to $\$ 6.75$ per cwt.; calves, $\$ 4$ to $\$ 6$.
Exporters. to $\$ 5.50$, and one prime loom $\$ 5.12 \mathrm{z}$
$\$ 5.60$, the bulk $\$ 5.60$, the bulk selling at $\$ 5.20$ to $\$ 5.30$. Butchers'.-Prime picked lots, $\$ 5.00$ to
$\$ 5.50$ gether sold up to $\$ 5.60$; loads of good
to choice, $\$ 4.80$ to $\$ 5.25$, and one extra choice load of heifers and steers, $\$ 5.30$ medium, $\$ 4.50$ to $\$ 4.50$; common and
light, $\$ 4.20$ to $\$ 4.50 ;$ cows, $\$ 3.50$ to
$\$ 4.75 ;$ canners, $\$ 2.50$ to $\$ 3$. bulls, $\$ 3.50$ to $\$ 4.52$ to $\$ 3$; butchers Stockers and Feeders.-Trade in stock-
ers and feeders has been light. A few bs., have been pickeds, 1,200 to 1,250 85. Jno. Smith, M. L. A. for Peel,
bought a selected load, 1.250 to 1,300 bought a selected load, 1,250 to $1,1,00$
lbs., at $\$ 5.25$ per cwt. Mr. Smith buys annuaty at this time of the year, and
sells always in the early summer, and
says that he has always made it The cattle hought hy him mast week pay.
heen brought ou the market to sell heen brought ou the market to sell as
Milch Cows.-There was a
Mood outlet M11ch Cows.-There was a good outlet
all last week for good milkers and for-
ward springers, the bulk of which were ward springers, the bulk of which were
taken by Eastern buyers from Montreal, to Montreal. Buebec. A Auyers, as us usual, wert
to mere
after the high-class cows, giving or likeafter the high-class cows, givinual, were
ly to give a large fow of milk. The-
fest sold up to $\$ 60$ and $\$ 65$ The best sold up to $\$ 60$ and $\$ 65$, and the
bulk of good ones went at $\$ 45$ to $\$ 55$,
with the niedium at $\$ 35$ to $\$ 40$. Medium cows have been slow sale, and a
little lower in price. Common light cows
were not wanted, and were hard to cash,
or close out at $\$ 25$ to $\$ 30$. or close out at $\$ 25$ to $\$ 300$
Veal Calves.-Receipts were large, but
all offerings were all oalferings were taken at aboutge, steaty
prices. Some of the best sold around
$\$ 6$, and most of the sood $\$ 5.50$ to $\$ 5.75$. The buod ones went at
calves sold at $\$ 4.75$ to $\$ 5.50$, and the
commen







$\qquad$

## $\$ 6.51$ 83.40 calve $\$ 3$ to

## The Sovereign Bank of Canada



 rean

78 Branches Throughout Canada.
D. M. STEWART, General Manager.

## apart in unsettled. <br> Wheat.-No. 2 white, 81 c ; No. 2 red 81c.; No. 2, mixed, 801c.; Manitoba No 1 Hisd

 Hard, 99 c., at lake ports; No. 1 North t Goderich asked.Buckwheat. -62 c .
Rye.-Dull, at 65c. to 66 c .
Peas. -76 tr. bid.
Corn. - No. 3 yell
Corn. - No. 3 yellow, 54 c., at Toronto
Oats.-No. 2 white, 40 c., outside: 2, mixed, 40c. ${ }^{\text {Barley }-N o . ~ 2, ~} 53$ uc.; No. 3 extra 52 द्c. No. 8, 51 c. . to 52 c .
Bran. $\$ 23$, at Toronto, bid. Flour.-Manitoba patent, $\$ 4.05$, tracl
Toronto;
Ontario, 90 per cent. patent oronto; Ontario, 90 per cent. patent,
$\$ 3$ bid for export; Manitoba patent, strong bakers', $\$ 3.90$.
COUNTRY PRODUCE Butter.-Receipts heavy; prices 1c. to
2c. per lb. 1ower. Creamery, pound
rolls, 25c. to 27c. ; creamery boxes, 24 c .
to 2.5 c . . rolls, 25 c . to 27 c .; creamery bores. 24 c
to 25 c .; dairy 1 b rolls, 24 c . to 25 c .
tub, 21 c . to 22 c . bakers. Eggs.-Market firmer at 18 c . to 18 sc .
Cheese-New Cheese.-New, 12 tc . for large; 13c. fo
twins ; old, 1 arge, $14 \mathrm{c} ; \mathrm{twins}$, 14tc.
Honey. - Market steady strained; combs, $\$ 2.60$ to at $\$ 2.75$ per doz.
Evaporated Apples Evaporated Apples.-8c. to
Potatoes.-Ner. 1b
Prunswick
Delawares firmer, at $\$ 1.05$ to $\$ 1.10$ per bag by the

## Poultry.-Scarce. Turkeys, 16 c . to 20 c per 1 b ; yearling chickens, 18 c , to 21 c .

## sring chickens, 45 c. to 5pc. per lo. Hay. - Baled, No. 1, timothy, $\$ 13$

$\$ 14$ per ton, by the car lot, on track,
Toronto; No. $2, \$ 11$ to $\$ 12$ per ton. Straw. $\$ 6.75$ to $\$ 7$ per ton, baled, on
track, at Toronto.
Beans, -Car lots, on track at Toronto,
in bags, $\$ 1.25$ to $\$ 1.30$ for hand-picked;
primes, $\$ 1.15$ to $\$ 1.20$ Rrolen in bags, $\$ 1.25$ to $\$ 1.30$ for hand-picked
primes, $\$ 1.15$ to $\$ 1.20$ Broken lots,
$\$ 1.45$ to $\$ 1.55$ for hand-picked; primes,
$\$ 1.30$ to $\$ 1.35$, in bugs.
Toronto seedsmen report the market

## being nearly over, with little doing in eeeds. Prices are nominal as follows

 seeds. Prices are nominal as followsRed clover, $\$ 14.50$ ro $\$ 16.50$ per cwt.
alsike, $\$ 10.50$ to $\$ 13$ per cwt. timothy alsike, $\$ 10.50$ to $\$ 13$ per cwt .; tim
seed, $\$ 5$ to $\$ 7$ per cwt .
HIDES AND TALLOW.
Prices are quoted as follows by E. T
Carter \& Co., 85 Fast Front St., T



## Chicago



further decline shortly, but theok for the market depends upon the volume of the make, and, also, now somewhat upon the progress of the strike of the long shoremen and carters. The export , mar-
ket, to which the local must fall, is ket, to which the local must fall, is
still away below present prices. De still away below present prices. De
mand from outside points is not as ac
tive tive as a week ago. At the boat, 21 tc .
 Cheose.-This market has boen ex-
traerdinarily strong, and prices were for
a time fully tc. above those of a weelk a time fully tc. above those of a week
ago. Stock is very scarce, and there
has divel has developed a fair demand from Eng-
land during the past few days. For the week ending 11 tho shipments from Monting the season woll. Prices here is are,
ine
ine at present, lower, at 12 c . to 12 ilc . per
lb., owing to the tie-up of transportation li., owing to the tie-up of transportation
by the longshoremen and carters going on by the longshoremen and carters going on
strike. The cold, late spring is against a large make, though favorable to qual-
ity, and shipments are being made close
Flour and Feed.-The market for flour has advanced 25 c . per bbl., and is very
firm at the advance. Demand is very alctive, as is always the case when prices are going up. The advance is due to the
boom in wheat. Manitoba strong belkers
four flour is $\$ 4.25$ per bbl., in bags, and
patents are $\$ 4.85$. Demand for millieed patents are $\$ 4.85$. Demand for millfeed
has fallen off considerably, and more ia offering, so that prices show a good de Manitoba bran or shorts, bagged.
Grain.
ing all - The market for grain is boomplunging, and prices of wheat have advanced about 20c. per bush. As for
oats, they are very hard to quote butt oats, they are very hard to quote, but
sales are being made here, at lower than sales are being made here, at lower than
a basis of prices in the West. No.
Manitoba Manitoba oats are 27 che West. to 48 cc, store.
for
for local account, No. 2 Ontario beling
 West, at 62c. for No. 2, store, and 59 c .
Hay and Seeds.-The market for hay the a also advanced, partly on account o
the embargo on some of the railways Prices here are away above an export
value. Clover hay is stoady at uotations, owing to the weakness recent English market. No. 1 timothy is quoted at $\$ 15$ to $\$ 15.50$ per ton, track, No. being $\$ 13$ to $\$ 14$, and clover at $\$ 11$ to small, and demand continues good, resulting, in the case of red clover, in an here are $\$ 5.50$ to $\$ 7.50$ per 100 Prices timothy; $\$ 17$ to $\$ 18$ for red clover; $\$ 14$ or $\$ 20$ for white clover, and $\$ 18$ to $\$ 18$
tor Hides. - The market continues firm and steady as to price, but quality sho
much improvement.
Trade is fair.

## BUFFALO.

Cattle--Prime steers, $\$ 5.70$ to $\$ 6$
Veals. $\$ 5$ to $\$ 7.25$. Hogs.-Heavy, $\$ 6.80$ to 88.75 ; mixed
and
 She ; dairies, $\$ 6.50$ to $\$ 8.75$.
She
and Lambs.-Lambs, $\$ 5.50$ to
 wethers, $\$ 6.25$ to 86.50 ; ewes, $\$ 5.25$ to
$\$ 5.75$; sheep, mixed, $\$ 8$ to $\$ 0$.

BRITISH CATTLE MARKET
 oo $9 \frac{1}{c}$ c. per lb .

There is a German dairyman and farb or, whose place is not far from Philadel-
phia, who greatly plumes himself upio the absolute superiority of his products occasion, says in the vicinity. On on sonally applied torper's a Geekly, he per-
keeper for a trantown househimself: "I hears you do haf a cum to drouble mit dot dairyman of yours," h said. "Yust you gif me your gustom
und dere vill be no drouble !" " "Are your eggs always fresh?" asked
the woman." repeated the German "
"Fresh!" remer Fresh!" repeated the German, in
n indignant tone. "Let me dell you
nadam, dot my hens neer,




THE IRRIGATION OF SOUTHERN ALBERTA.
Whether the reason be mere inexplainable negligence, or that she is more than her neighbors susceptible to the principle which lies at the
back of the truism, "A prophet is back of the truism, "A prophet is country," the fact remains that Canada is not and has never been overand advantages from the house-tops As a consequence, comparatively few even of her own people, really know to any great extent of the beauties her territory, or even of the magni her territory, or even of the magni-
tude of the works which are being pushed forward here or there to the
advancement of her commerce advancement of her commerce.
Among the most prominent of the latter is the great irrigation project of the C. P. R.. under way in Southern Alberta.
and which when completed will be
the largest irrigathe largest irriga-
tion system in the world.
If the real benefactor of the human who " makes two ears of corn
grow where one ${\underset{\mathrm{grcew}}{ }}_{\text {grow }}^{\text {where of one, }}$, then, in a very
literal sense, the literal sense, th
C. P. R. may tak its full toll of credit. Southern Alberta has al-
ways produced its one ear of corn. It has never been dry, arid desert connected with the idea of irrigation The semi-arid racts, extending
down and down in enormous slopes $-3,000,000$ acre of land running Rockies-have always been iound ad mirable for grazing. Even during the winter hosts of cattle have roamed
ver them, finding, except during a over them, finding, except during
very exceptional season, abundance very, while in such districts as ha been given up to wheat-raising, th returns have, as a claims of ". Sunny "Alberta could not be depended upon the form. Owing to drouth, it ha
been found impossible to have been found impossible tatured in to permit of extensive fall cropp, operations the next, while, for same reason, the has been, perior corn and limited. To bring abon
and, in addition, to greatly increase the annual yield, became the dream It was slope eastward, with the Bow Rentle slope eastward, with the Bow River
-fed not only by the direct waters from the snows and glaciers of the Rockies, but also by the overflow from Devil's and other mountain lakes-at its head, afforded an almost exceptionally low cost, and a survey of the area showed an acreage of could be advantageously irrigated, the remainder being still valuable, as
before, for grazing before, for grazing. This area, it may
be explained, lies be explained, lies between Calgary
and Medicine Hat, is 150 miles long and Modicine Hat, is 150 miles long
Red 40 broad, and is bounded by the Red Deer River on the north, and on the south by the Bow River.
Since, in Canada, all rivers Since, in Canada, dill rivers belong
to the Crown, the first step was to obtain an absolute title to such amount of water as might be neces-
sary. This was secured to sary. This was secured to the exsecond from the Bow River, hence the C. P. R. was enabled to guarantee to the purchasers of farms within the district a supply of water for all
time : and the work, under the super-

feet in depth of water. This canal terminates in a natural reservoir 3 miles long, mile wide, and 40 feet canals, which in run three secondary water to the distributing ditches. In all, the total length of water chanwill for the Western division alone will be 967 miles, exclusive of the aterals which each farmer will have
opened to suit himself opened to suit himself, and the 350,000 acres.
When this section has been full developed and colonized, the worl
will extend to the other sectionsond f constructed in the same propor tion, the completed work will show about 2,900 miles of water channel,
involving the excavation of 24,750 nvolving the excavation of 24,750 ,
oon cubic yards of material. In making the excavations, which have been carried on hy means of the
steam shovel and locomotive the steam shovel and locomotive, the
greatest care has been taken to thgreatest care has been taken, to ren
der the work permanent, and to pre vent loss through seepage or accident. In every part the softer sur-
face soil has been discarded, and the embankments made of the harder subsoil, wet, and packed by heavy
rollers. In some parts rollers. In some parts the use of
a rapid colonization and a revenue o richness as yet scarcely to be est
mated from this Holland of the dian Northwest.

## REMINISCENCES OF THE OLD

 MODEL.Another time about to become of the things the have been. To the sound of the Normal Schools that will rear the new air, the Model Schools of the Prov ince will ere long shiver out thei last fluttering gasp. Even the tale told of them-for they were rich in will, ere the which tales are wovenpassed, die out with the passing of the generations of gray-haired teachers and ex-teachers, who must, in the
days to come, totter over the "، un known bourne, " making way for the educationists of a later regime, with heir stories, in which the magic except Model arise here or there and, crystallize the records of the old Schools into permanent hook literature, and so hand them down with loy, s Hall,"
$\cdots$ The Charterhouse," and "Lo-
wood," their name wood, their name of the wave that crossed the water yester-even, unno-
ticed and unremembered.
Yet they served
thein day - these old Model Schools -and turned out a grist of men and
women who have not failed to leave their mark on the ada; and so, per haps, those who perhave in them crossed a Rubicon,
may not be loath may not be loath
to turn back for a time to reminiscences of the good
(?) old days that (?) old days that
cannot return.
Do you rememleer that morning when, still a a girl n
n "pig-tails,",
sut
inemendously Intendence of Mr. J.S. Mennis, an and at one point the removal of a win's Psychology and Tilley's " Meth
engineer oi high repute in the ninion, began. Ided into three sections, and as yet diture in money has been the expen- sense of being out alone on the diture in money has been great, and broad, broad sea you had! ! Yet how
will, by the time the work will, by the time the work has been 000 . Nevertheless, the water will be supplied to farmers at the extraordinarily low rate of 50 cents per acre plied at present being fixed be supMued at present being fixed at one
culic foot per second for each $1 \overline{5}()$ acres, as needed during an irrigation rason lasting from May 1 st to 1 名 The exceeding reasonableness of this rate, along with the certainty of
perpetuity of being able to inder perpetuity of being able to irrigate
the crops when needed.
verily it seemed that, in spite of your pig-tails, you had crossed the
border to womanhood! How timid you were! How you felt that th dames grown old in the profession " knew it all," while you were as the merest infant in your inexperience
And so you cowered before the power that were, and who held for the time your destiny in their hands. Was there a cross-eyed one with whom you got into irequent trouble
because you never. knew to answer
when she addressed. because you never. knew to answer
when she addressed youl And was
there


Noturo's silent forces, inspiring, grand In space to strive, shape, take on ever
hand: We gravitation's force in matter find,
And love its place doth take in world mfnd.
But evil's floods the counter-force let loose.
Gainst which to stem the tide in vain We choose,
in turn to use
orscurn to use the faculty divine shine.
Light Divine, sweet force of love that Sin's bonds
Sin's bonds, de
to thrust,
to thrust, fromin its rayless tomb force supreme thou didst earth's win-
ter close;

The Ingle Nook.

## SOMETHING ABOUT CHILDREN.

 Which there is, perhaps, some foundation, that no one knows as well how to train train. Yet one does not need to b over-observant to notice mistakes made by some parents-mistakes so palpable,and betraying such a lack and betraying such a lack of ordinary
common sense in this matter, that the only common sense in this matter, that the only
wonder is that such people were trusted with children at all
ing " parent, the one who continuall holds soment, dire calamity over the little ones, never dreaining of the abject terror with which such representations ma imagination, nor of the really disastrous results which may follow
"Take this medicine, or we'll have to
send for the doctor,"' this parent sen direful toctor,", this parent says, child thinks of the doctor as a sort of
human ogre. human ogre. He hasn't the slightest
idea what this ogre will do but it tainly must be something dreadful, els why should it be such an awesome thing and-bye, when the day of serious And by comes, and the doctor must really ap pear, the cowering little must really ap to bear any excitement, is compelled to go through, not only the bodily pain,
but an added mental terror, which must do much to retard his recovery. The parent who threatens with the doc-
tor is also likely to threaten with sor is also likely to threaten with the
school. "Never mind, just wait till you No to school, and the teacher will fix
go mind you ! '. is the astounding revelation
opened up, before the little lad opened up before the little lad who must
soon start off with his primer and lunch oon start off with his primer and lunch
basket into the unknown world; hence the ordeal, when it comes, is really
terrible one terrible one -to the child. There
is usually a fight to get him to go-a
part of the performance which is ogoreo is usually a fight to get him to go-a
part of the performance which is scarce-
ly to be regretted in one respect, since $t$ serves to pay the parents back in heir own coin somewhat, being just
what they have prepared for themselves.
they, however. usually They, however, usaully forl agselves.
and lose their temper, not recognizing properly the laws of cause and effect.
Then the child starts off, probably with
,oth fists loth fists in his eyes. It seems a
dreadful distance to school. IIe is to ec sepparated from everyone He is tows, 0
and there are to be bad boys, and hand .essons, and a stift seat on which on must sit all day, -and a terrible teache
who "o fixes ". one. Possibly, alscu who "fixes" one. Possibly, also, he
whas
heard rumors of an awful black has heard rumors of an awful black
trau, somewhere. All the horrors of
tie. inquisition!. As a result,










Did hospitals light up, soft pillow
spreand,
nd mueans suply to get the hungry fed
Thy cause to help and make the most of

When grace did
teach.
Tis not the dark, dense sleom hearts enfold,
evil's wheel that o'er them crat cold; our's mis or our's Thy might to oheck, to hold
the spokes, Til! the love's whe love's
strokes.
Ours the forces of truth and kin The lost to trace in them Thine ima Which from the crude evolved in form In setting rare for evermore may shine Middleton, Cockley. Maryculter Scotland, an, appreciator of the
"Quiet Hour.," Nook to put away carefully all disabled tinue brushing until the butter is all
furniture, for there is no knowing when brushed off, and your velvet collar will
it will come in useful. Just two weeks be like new. will come in useful. Just two weeks
Jo had a family of English immiago we had a family of English immi-
grants landed at our door, late on a Saturday night, father, mother and five
children. You can imagine it was children. You can imagine it was a
problem to stuw them away comfortably problem to stow them away comfortably
for a couple of days until their luggage
arrived. Fortunately for us they were arrived. Fortunately for us, they were
a sunny little bunch, no squalling, no squabbling, but just good, biddable ilttle
children. First thing was to give them their tea, which was waon disposed of
by the hungry little travellers. by the hungry little travellers. Then it
was marvellous to see that mother pack was marvellous to see that mother pack
her five children, all under ten years of here, into one bed, two at the head and
three at ane three at the foot. It was a revelation to my young people, who were accus-
comed to a bed each. We were fortunate in having a a cottage across the yard with a stove in it ready for action, so, on
Monday morning, we began to plan Monday morning, we began to plan and
consider what could be done in the way consider what could be done in the way
of furnishing, as they told us their small means had been greatly reduced by their
having had to pay their own tare having had to pay their own fare trom
Halifax. They were glad and willing to Halifax. They were glad and willing to
do with anything, no matter how old, as long as it would answer the purpose, un-
til they could til they could get a little headway. Just
three weeks from their home in three weeks from their home in Norwich,
England, they were settled in their home in Yoork Co., Ont. Even in their home
Evith five little
tots, those parents were able to give tots, those parents were able to give
this bare cottage a look of home comfort for a few days, with just the cast-of furniture from an old farmhouse. A
Kind neightor was good enough to give
them wo them two discarded bedsteads, which were
a great help. There have been three different na-
tionalities in this same house within a year, and I must say the couple with the largest family take the palm for best
results at the smallest expense Firt results at the smallest expense. First
were a couple from the American iside with four children. They American side
aine in with
a lond of furniture fresh from the a load of furniture fresh frome the with
shop, but they were like a June frootshop, but they were like a June frost,
and were gone again inside of a month, and, It believe, are moving still. Next
camn a cannie Scotch month, camn a cannie Scotch couple with one
child.
Their main obicet was to do without all household comforts. They evidently thought the comforts. They
ensily carried awas more Casily carried away than furniture. A A A
house without furniture is certainly not a cheerful abiding place in a Canadian
winter, and for people with a holy horror
$\qquad$ much love for Canada, after puvting in
ten months in such a way, would not door. They will not heighbor inside their say about Canada when they get boock to
Scotland. The last, the Englishman, is Scolland. The last, the Englishman, is
evidtantly deturmined to make the best of
his wnw his new home, and is trying to learn
Camadian ways as soon as possible, and four wit the children, althengh so yound
are willine litlo workers, and will tee a
source uf woulth to thwir pate A Small Lamp to Burn All Night.Take a tin blacking box; make two
small holes in the lower edge of it, and a bole in the center of the col it, and large enough to pers of the cover, about fill the blacking box with cothrough; the as full as you can, and pull the cotton just through the hole in the lid. Now a cup of coal oil. In a short time, the a cup of coal oil. In a short time, the
coal oil will be all absorbed by the cotton in the blacking box; then your
lamp is ready for use. Wipe the lamp is ready for use. Wipe the oil
from the outside of the box, and stand it in a saucer. This lamp will burn for thirty-six hours or more, without adding more oil. It surprised me that there
was no smoke from this little lamp as no smoke from this little lamp.
York Co., Ont. WRINKLES.
THE WILD BIRD'S SONG
Miss Audubon is a granddaughterramous ornithologist.-Editor.)
Was ovent hough tis fitte throns only those can sing who knowAs none but those to whom of wronggiven the name of "dumb things"Ie sang as I would fain, to God-
The plaudits of the listeningThe plaudits of the listening crowd
Their flatteries, their beck and nod
They called not forth this anthem loud
He perched on a wild rose-bush, so near
I could have touched the other side,
He plumed his wings, and once again
Poured forth his praises far and wide.
Poured forth his praises far and wi
To the dear Lord of birds and men
A moment more, and he had soared
As though he sought ethe.
Higher and higher still, he flew.
While to my heart the evening breeze
Whispered:
Whispered. "If God so cares for these
How careth He for
THE STAGES OF THE DANDELION
And beautiful the rose;
But close to human rose;
In youth its clustared ringlets
With wollden clustared ringlets
And then, bespen, burn,
To somite all hair dye
And then, despite all hair dyo,
To scanty silver turn Take 3 cups flociscunts, made and sift with it 2 tea
spoons bakine pouder
soll spoons baking powder, and $\frac{1}{t}$ teaspoon
salt. Ruht in 1 tablespown of butter and
make into a dough with swout alk Divide the dough int two., and pat out a
little (do mot knead nor olll). Disull cut as
The thresescore ton of nowers

Children's Corner. "It is the Sieur Fontaine and his the little garrison
family," said LaViolette. "They are what might come
are

of six was ready for
qceupants of the blockhopa, paured out
into the courtyard, and Madeleine, havinto the courtyard, and Madeleine, hav-
ing set a new guard, turned towards her .We must send out a guard to bring said the wise young captain, ". but it is
them up to the fort,"" Madeleine sidid, in the darkness that the savages general|All letters for Children's Corner must "We must send out a guard the bring sion in the darkness that the savages general-
 be Ave., Toronto.
tor Ar
not be published.] $\qquad$
A CAMADIAN HEROINE
Along the dark passage she hurried, her
heart beating, and her heart beating, and her lips moving in
the most fervent prayers she had ever the most fervent prayers she had ever
breathed. The door of the blockhouse was open. It consisted of one room,
with bulletproof walls, in which gunwith bulletproof walls, in which gun-
holes were cut, but no windows. At one holes were cut, but no windows. At one
side of the room were some casks of gunpowder and a heap of bullets. To
Madeleine's surprise a man with a lighted match in his hand was standing near the
gunpowder. He started as she came in, gunpowder. He started as she came in,
and turned a white, terrified face towards her. It was one of the missing soldiers. For a moment she looked at him, in a
silence through which the women's silence through which the women's
shrieks sounded far away. "J Jacques," she said, in a still, cold
voice, "what are you doing?"" voice, "what are you doing?"
I am aming to light the gun-
powder. Mademoiselle, and blow us all "I am going to light the gun-
powder, Mademoiselle, and bow us all
up," the man answered, sullenly. "There is no hope."
The hot blood flamed in Madeleine's cheeks, and
she seemed suddenly grown she seemed sudden
taller.
You are not,, you ". You are not, you
miserable $\begin{aligned} & \text { coward!., } \\ & \text { cried. }\end{aligned}$." Leave this place at once." Leave this place Her eyes flashed, and
scorn was in her ringing scorn was in her ringing
voice. Jacques quailed voice. Jacques quailed
as if he stood before the
Seigneur, and, without a Seigneur, and, without a
word, obeyed. As he word, obeyed. $\begin{gathered}\text { As he } \\ \text { went out, his comrade }\end{gathered}$ rose out of a dark corner, and followed him, avoid-
ing Mademoiselle's fierc ing Mademoiselle's fierce
eyes. She came out into eyes. She came out into
the courtyard almost immediatoly, carrying gun, and ammunition for
her small garrison. Before her small garrison. Before
the Seigneur's house paced her two little brothers,
heir guns across their their guns across their
strong
young shoulders strong young shoulders
They were only 12 and 10
years years, but their sturdy bearing warmed Madeleine's
heart. She and they to heart. She and they to-
gether would be a match gether would be a matc
for the foe ! "Louis and Alexander,"
she
said, as she threw down the ammunition,
$\%$ let us fight to the death! ${ }^{\text {us }}$ Is ight not every
gentleman born to shed his blood for God and the King ? French gentleme
will
never surrender to never surrender
the cowardly Iroquois
" No, Madeleine. " No, Madeleine, no,",
$\begin{gathered}\text { cried } \\ \text { shining } \\ \text { Louis, } \\ \text { his eys } \\ \text { with excitement. }\end{gathered}$ shining with excitement.
We will never give in
The French flag shall all
ways wave over Ver ways wave over
cheres
Madeleine thought of her mother far away in Mont real, and ber eyes were
misty for a moment: but
she gave her brothers their posts in a steady voice
and ordered the soldiers and ordered the soldiers
to fire of the cannon.
The screaming of the wo-


The Twenty-fourth of May Is Empire Day,
If you don't give us a holiday
We,11 all run away."
ther's hoise.
"Wait, Mademoiselle," cried a woman rushing towards her. "I have spent a
terrible night. It is too dreadful to be terrible night. It is too dreadful to be borne any longer. At any moment the
savages may break in, and massacre us savages may break in, and massacre us
all. What is there to hinder them ? Lot all. What is there to hinder them? Lot
us leave the fort, and try to reach Montreal.,
Madeleine de Vercheres looked at
Montren Marguerite de Fontaine with a certain
contempt, as she stood wringing her hands before her. Sieur de Fontaine's wife was one of those Parisian ladies, who have no courage, and are to be
pitied rather than despised. The Sieur came between them before Madeleine
could answer. could answer.
"Marguerite." he said, somewhat stern-
ly, "do not trouble Mademoiselle. She is tired."
is Well, then, Pierre, take me and the children away from thig awfol place," wailed his wife, clinging to his
"that is all I want, as you know,"
"I will not abandon the fort while Mademoiselle Madeleine remains here. And I," said Madeleine, Airmly, "will
never abandon it, while I hive. If the Iroquois get possession of a French fort, their assurance will be unbounded, and the whole country will be at their mera It is only by boldness
that we can keep them of. that we can keep them of.
But, dear lady," and her voice softened, " do not
fear. Help will soon ar-
rive, and it is aner here lear. Help will soon ar-
rive, and it is safer here
than wandering in the than wandering in the
woods." She kissed the Sieur the cheek, and vanished. There was little sleep for for many days and inh after. Only her presenco could keep up the flag ging courage of the gar
rison, and constant watch fulness was the price safety. From bastion to blockhouse she went, with
her bright smile and hopeher bright smile and hope-
ful words. If an Indian so much as showed him self beyond the woods, he Was greeted by a volley of musketry, and often by
a cannon-shot.
Even the women could use a gun by
way of way of making a noise
and the Indians and the Indians fell back
upon the safe plan o starving out the vigilant $\underset{\text { But }}{\text { garrison. }}$
But
whamine was not
Madeleine feared. What Madeleine
The break-down of the garrison seemed
more
probable. much
The sentinels
as their
dropped asleep
posts, and she herself went about in sort of waking dream, a
the days crept slowly and the besieged were ant most in despair. A whole Week was gone, and still
no help seemed coming Put. day and night the guard was kept, and the foe came no nearer
One dark night, when
heavy clouds hid the heavy, clouds hid the
stars, and a damp mist
wrapped wrapped the fort:
Madeleine was sitting by Madeleine was sitting by room, while the two boys lay asleep upon a pile o coats in the corner. Her
heavy eyes were fixed heavy eyes were fixe
upon a book of prayers which lay beside the feeble tallow candle, but, she
had not read a word; her had not read a word; her
mind was as drowsy her eyes, which drooped lower till the lashes
touched her cheek touched her cheek. With
a little shake, she roused herself, shake, she roused her cloak, went out into
the courtyard. the courtyard.
silence was silince was broken, by
heavy snores from one of the bastions; once more
the sentries had falien

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fully effective treatment. Before using fully effective treatment. Before using
this remedy I had been in very poor
health for some months. I this remedy I had been in very poor
health for some months. I seemed to
heve no energy or ambition, felt tired and have no energy or ambition, felt tired and
listless most of the time and could scarcely drag nyyself about the house. II was ly drag nyself about the house. I was
week, irritable and nervous, could not
sleep well, and felt discouraged sleep, well, and felt discouraged about my
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"It has been in is good to cry
Mademoiselle," began the officer, gallant
ly, but his speech came for the heroine had begun a so sob, as if

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Are you aware that it is guaranteod by a Canadian company. - Have you examined the double support Have you stand iod the common-se gear applied to do diving the bowl.
 Do oou considioes quallaly the butter flat If so, see the MAGNET'S nine years
reoord, whioh is: no ropairs, no warl. Do you consider rosults? If no, export say "never sow better flimming than
was done by the MAGNET? Are you looking for profit in your
 dollars more every yoar from anch cow.
 morto it it you tried. Write for 1907
cotalague.

THE PETRIE MFG. CO., LIMITED,
Hamilton, Ont.; Winnipeg, Man.; 8t. John, M. B.; Calgary, Alta.

hat sounds strange, but it's true. The Modern Canner is the individual fruitgrower's factory.
It will can fruit or vegetables quickly,
easily and cheaply, allowing no waste, but large profits
Three sizes- $1,000,2,000$ and 4,000 tins in 10 hours. Prices, $\$ 30, \$ 60$ and $\$ 90$.

THE MODERN CANNER CO., Canadian Branch. 8t. Jacob's, Ont.

HER HONORED SEAT HER HONORED SEAT.
A pretty and stylishly-dressed young lady
boarded a crowded street car on
Street. More than
Sone young $\quad$ man street. More than one young man oveliness, who carried herself with such
an independent air. The seats were full, and the straps were hard to hold. She was pushed and jostled
or all sides by the swaying crowd on all sides by the swaying crowd,
and at last, as the car gave sudden tart, she lost her hold and aat down suddenly on someore's knee. She looked
down and caught a glimpse of a blat down and caught a glimpse of a black
skirt, so decided to sit still. as it was almost impossible to get up.
She noticed poople looking in
direction. seemingly convulsed wither $\begin{array}{ll}\text { direction. } & \begin{array}{l}\text { seemingly } \\ \text { laughter. } \\ \text { She knew }\end{array} \\ \text { convulsed }\end{array}$ wit could hat she had caused it; it was nothing laughable for
knee of another
She knew she was faultessly attired she decided to dismiss the matter from her mind.
The car proceeded on its way for a
few blocks, before the woman made a move few blocks, before the woman made a move-
ment, as though she wished to get out. The young lady rose at once, and turned to hank her obliging friend, when, "o rose up and made his way out of the car. The crowd could not contain itself

## Butter Boxes

Best quality, standard size, spruce butter boxes. Ask your dealers
for a trial lot ; if they oannot bupply you get them direat from the bozes to give entire satisfaction or boxes to give entir
money refunded.
STANDARD BOX CO. Lennoxville, Que.

## Saskatchewan

 $\$ 10.00$ to $\$ \$ 5.00$ per acre. $\$ 10.00$ to $\$ 85.00$ per acre.Money making. City propert

The Minton Mansell Co., askatoon
For Sale ${ }^{- \text {COUNT EOHO DEKOL }}$ one of the stein stock Lulls ever imported into Cynada

Health in the Home
HOUSEHOLD SANITATION.

Now Mary E. Allen, Davidson, M. D. Forbid spitting absolutely. It is a disgusting and most dangerous habit. It is.
astonishing how prevalent this habit is. Many of my readers will exclaim, "Surely not!'" But I have been taking note of this for years, and many men and wo-
men (and, of course, their children too) men (and, of course, their children too),
who are respectable and even fairly clean in other ways, spit wherever they chance
to be on the floor at home, in church or to be on the floor at home, in church or
neighbor's house. There really are beneighbor's house. There really are be-
ings who chew tobacco and spit on the
floor. What matter that their unfoor. What matter that their un-
fortunate babies, whose play-place has
been so defiled, have to creep through been so defled, have to creep through
this vileness ? Isn't it horrible ? How
can such children ever struggle into deCency and self-respect? These expectorations, on drying, are raised in dust, and
taken into the lungs, and deposited on the food and in the milk and water.
Fathers who smoke or chew, I beg of
you to forget your selfish-yes, most you to forget your selfish-yes, most
cruelly selfish-appetite long enough to
think som cruelly selfish - appetite long enough to
think a few minutes. Think of the
lumps of foul-smelling contamination you are making of your own bodies. Go and
look at yourself in the glass, and take look at yourself in the glass, and take
an honest picture into your mind. There
you are, with the trade-marks of tobacco the strongest characteristics of
your personal appearance. Yellow, to-
bacco-stained teeth, perhaps worn into bacco-stained teeth, perhaps worn into
ugly jags and hollows to accommodate
the Lips dry, livid, perhaps
cracked, or with sores that may be in cipient cancer; or, if you chew, a dirty
brownish rime deflies and disfigures the mouth that should be as clean and redlipped as when you were a baby. Your hair 1scotine has stolen its rich polossi ous nicotine has stolen its rich glossi-
ness. Fye is not so bright as it should
be. The clear white has turned to a dirty yellow. Inthte has turned to a
In regard to kitchen utensils-watch the In regard to kitchen utensils-watch the
Sink. Disinfect the pipes often with boil-
ing water having a little lye in it. The ing water having a little lye in it. The
same applies to all the bath-room pipes. As to the dining-room : Do not put
Cood-milk, butter, meat, vegetables or breadstuff-on the table until the family
are ready to sit down. Better they should wait awhile than that they
should dine off what the flies have shouta dine of what the flies have
perhaps crawled over. Clear off the
table as soon as the meal is over. Leave table as soon as the meal is over. Leave
nothing that will attract flies. If you leave a cloth on your table, let it be a
dark one, unless you can exclude every fly. If any flies do gain access, try to
clear your dining-room of them a clear your dining-room of them before
and after every meal, by waving a laige
cloth to and ater every meal, by waving a laige
cloth to dive them out. This room riny
be darkened when not in use, as it is iut be darkened when not in use, as it is iot
a living-roonn, but see that there is
plenty of ventilation plenty of ventilation. If needful, use fly-
pads, but it is better to exercise vigilance
in kepping them in keeping them out of the house alto-
gether. Have every door and window of
your honse closely screened. Make this $\begin{array}{ll}\text { a thing of prime importance. } & \text { Make this } \\ \text { on the children's attention. } & \text { Tell } \\ \text { why }\end{array}$
whem why flies are such enemies to health, and
enlist their help in keeping every fly out brush flies away before leaving or enter-
ing the house, and closing the screen door
tiritly ughtly and at once. Be specially careful
to exclude these pests from your kitchen,
pantry and dinion pantry and dining-room, because there "The tongue destroys a greater horde,"
the food supply is in dancer of contamerts. "than does the sword " ination.
Sitting-rooms-that is Sitting-rooms-that is, parlor, library,
drawing-room, etc.- 1 will pass over
quickly, only saying that these should al ways be well ventilated, of comfortable
temperature, and with plenty of light, Persian proverb wisely saith,
A lengthy tongue-an early death sometimes takes this form instead, head." your congue cut of your (ansure can spenk a word whosa (1)
$\qquad$
$\qquad$
$\qquad$

MAY 23,1907
QUESTIONS AIID ANSWERS. Veterinary.

## Locomotor ataxi.

Two-year-old colt has weak back. Ho
an rise, hut staggers and somet imes antls vhen turning short. Ans.-Thls is a disease of the spine,
often called locomotor ataxia. Some asees are curable, and others are not

 WOUND ON COLT'S FETLOCK When ten days old, my colt, now three
weeks old. was tramped on hy ite drem making a wound 1 inches square on the pulled until there sis a sump about half Ans.-Make a solution of 1 part car wic acid and 20 parts water. Wash the
cound, three times daily, with ater, and, after washing, dress with the lotion. If atter the wound is thoroughly
healed, a lump remains, you will find it bard to remove, but it can be done b rubbing well, once daily, with a liniment
composed of 4 drams each of rean rystals of iodine $\begin{gathered}\text { and } \\ \text { and }\end{gathered}$ potassium,

## Miscellaneous

Fall vs. Spring planting Aighursery agent is canvassing this
negborbood, and taking a goodlly num ber or orders for fruit trees of all
to be deli vered this this full, claiming
that fall (last of October and frrst of Novemler) is the proper time for setting out,
tar ahead of gupringtime. Please let m know the proper time for setting out
fruit trees, shade trees and evergreens 1 think it is the general opinion that
spring is the right time for such work Ans.-It is as natural as breathing for suits his present purpose, and the oftener he talks about it, the more enthusiastic and exteme he ocomes. As a matter o
tact, there is no great difference betwee the results of fall and spring planting for districts where there is a long autumn
(ity Park Commiseine City Park Commissioner Pearce, of Lon-
don, Ont., prefers autumn planting do
cidedy don, Ot., prefers autumn planting do
ritedil.
planting. Thers pin their foith to spring
onsensus of expert opin. ion is that where winter sets in early
 Canda, fall planting is undoubtedly all tight, and we presume no serious mis
take will be made by Oxford County tarmers planting in fall, providing their
stock is delivered before the end of Octo Ver Our trouble with fall planting is
that the trees are not dug in the nursery
 ittle time for the roots to become
stablished before cold weather sets in.
clover sickness. note the following. advice in a
 you consider this sound advice, as
venurril rute to the uverage farmer?

Nis. - We had noticed the item quoted
Uurther remarks of the same tenor, and


THE FARMER'S ADVOCATE.


BOOK ON GARDENING
$\begin{array}{cc}\text { Where } & \text { could } \\ \text { plaining } \\ \text { latest }\end{array}$ purchase a book ex gardening, either on a large or smal
plan ? Ans.-" Vegetable
Green (price, through this office,
Pr or $\$ 1.10$ postpaid), is an excellent com
pact little book, the second edition pact little book, the second edition o
which was revised and published in 1899 A more recent work, also excellently gotten up, is "The Book of Vegetables,"
by French; price, through this office, by French; price, through this office,
$\$ 1.75$ net, or $\$ 1.90$ postpaid.

## GOSSIP

Western clipped lambs brought $\$ 7.60$ per
cwl., at Chicago, May 15th, and West feeding lambs sold as high \$8.75. Range

The race for the King's Plate, at the Woodbine, on Saturday, May 18th, was
won by a horse named Kelvin, in a field of sixteen; time, $2.12 \frac{1}{2}$. Kelvin's win
vas quite unexper was quite unexpected, he being almost out
of the betting, and described as a $\$ 105$
" cast-off " brose Wood, a wine merchant is Am-

James McCrea, the new president of the Pennsylvania Railroad, said in an interview apropos of a false charge against
$n$ financial institution: The This charge was more than refuted.
institution came out with flying colors. It reminds me of an incident
that happened when $I$ was a roadman in my youth. "Working on the Connellsville line, I
took a number of meals with a middletook a number of meals with a middleaged farmer and his wife. One day at
dinner I noticed that the farmer's wife seemed rather out of sorts, and after dinner I wasn't surprised to hear her I. Josiah Simmons, to think that you
ave forgotten that this is the anniversary of our wedding."
"Old Josh flushed guiltily, looking up from his paper with a start. Then he Wh. Why, mother, you must be mistaken. We were married on the eighth
. The wife bit her the


## THE FARMER'S ADVOCATE

## 

 Not Corimumiome

















 Werrep, Aneatil Fer ition on








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 Midition im
 Noin O OWM And coatrol Eoveral largo and aman









 datem pot


WANTED-Women to to tike orders for our 2
Mention Advocate

## cossip

Much loss inating lambs. male lambs in the selling value of grade
neglect
results from

inteen dich is when they are from ten to
ifteen days old. when the tails of all ambs should be docked. When gelded at
the age of four or five days, the whole crotum, with its contents, may be
hears, and, up to two weeks old, by cutting off the end of the scrotum, the
testicles may be drawn out separately, casing and all, with scarcely any risk of
suffering or loss. At three week suffering or loss. At three weeks or over,
the risk becomes greater, and the cords should be scraped through wit
instead of being drawn whole.

Mr. Arthur S. Gibson, of Ruddington,
Not tingham, Fngland, has been secured o officiate as judge of Shorthorn cattle and heavy horses at the Winnipeg In-
dustrial Exhibition, to be held July 13 vears bext. Mr. Gibson, who has for
yone of the most successful Freders of Shorthorns and Shropshires in
England, and manager in the last few years of the noted herds and flocks of the late Mr. Philo L. Mills, of Ruddingon, is a brother of Messrs. Richard,
John and William Gibson, so widely known in Canada and throughout
America as successful breeders and ex-罂解 judges of stock. Mr. A. S. Gibson hrequently acted as judge at the
loyal and other leading shows in Great capacity for the Argentine Government the great fair at Buenos Ayres, wher
,500 bulls were on exhibition.
an excellent investment. I am a firm believer in the Holstein
ww for a dairy business. We are located a cheese factory, and after weighing hat there were better cows for my busii a Michigan breeder. I thought at that time I was paying a big price for
cows; but my valuation of a good cow
has changed since tnen, and I now think has cha
that it
made.
I not I noticed a decided increase in size of the head of the herd; quite often aull at
they ould weigh 90 to 100, and one pure-bred weighed 110 Ibs. When born. It has not been
necessary to veal calves from the regis-
tered cows; from those three head I have sold three bull calves for $\$ 90$, one two-
year-old at $\$ 06$, and have on hand two
heifers and three yearling hoifors heifers and three yearling heifers.
In 1903, milked 17 cows; three Holsteins averaged $6,792 \mathrm{lbs}$.; balance of
herd, $5,240 \mathrm{lbs}$. In 1904, milked 17 head; three Hol
steins averaged 7,232 lbs; balance of
herd, 5,115 lbs.
$\qquad$
$\qquad$
expect the three older cows to aver-
ge 10,000 lbs. this coming season.
font, and one, Maggie of (ireenoak, is
imported. All are registered and well imported. All are registe
worth looking after by a
a bir, flashy brood mare.

## OUESTIONS AND ANSWTRS 1st.-Questions asked by bona-fles subscribers this department frecold be dearly stated and paninly writtion, on one side of the paper plainly written, on one side of the papper only. and must be acomparied by the full namm mad address of the voriter  

$$
{ }_{b s}^{x}
$$

## Miscellaneous

PRESERVING SHINGLES-EX PRESS RATE ON PIGS.

1. Would you give a name or recipe of serve shingles on harn be good to prelast well, and with as little expenses and 2. Could you give an estimate of what it
would cost to ship a pair would cost to ship a pair of pigs from
Ontario, taking London as shipping
 Island?
Ans.-1. Laying them in ordinary lime
plaster or mortar is practicad with plaster or mortar is practiced with good
results. 2. Inquiry at the express office elicits the information that the rate from Lon-
don to Summerside, $P$. E. Island, would
be $\$ 4.50$ per be $\$ 1.50$ per cwt. There is no hall rate
offered by express companies for the transport of pure-bred stock. Hall-rate cransport of pure-bred stock. Half-rate
privileges apply only to shipment by
freight.

## IMPROVING GARDEN

The ground of my garden has been
rovered about eighteen inches deep with a heav, very sticky clay from the cellar
This clay is very solid big lumps, when being dug, that yo in not do anything with, and $I$ am anxious
to have a small-sized experimental farm. Ans.-It will take a long time for the hard clay subsoil in your cellar to be
converted naturally into fertile surface $y$ after many years by the action of
rosts and plants frosts and plants which may action of
it; but to get a good soil in which yon can grow plants readily, it whould bou
quicker to remove quicker to remove as much of the clay
as is necessary and replace with good
surface surface loam. Or, if it is not necessary
to remove the clay, all you need do is cover it several inches deep with do is
mellow loam, and the clay could mellow loam, and the clay could be
gradually converted into good soil by exposing a little of it each year to the
action of the frost when the garden was
dug in the fall. FERTILIZING ASPARAGUS.

## I have four rows of asparagus, ten rods long. Would you kindly tell me

## Veterinary

SKIN DISEASE IN TAII Horse has lost nearly, all the hair
of his tail. The hairs are thick at oots, and only about 1 inch long. Ans.-This is due to a chronic diseas
of the skin of tai!, and in many cass
t is not possible to could hormat possible to cause a regrowt glycerine, 2 drams a mixture of 8 drams cantharides, and 8 ozs. alcohn POLYURIA.
Imported
quantities $\begin{gathered}\text { stallion } \\ \text { of }\end{gathered}$ essive quantities of urine. Ans.-This is called polyuria diabetes insipidus. Give him 1 dram 'ow:
iodine, three times daily or large quantities of water his desire voiding of large quantities and his ceases. If the treatment does of urine
an improvement in three dause size of the doses.
BURSAL ENLARGEMENT
Stallion had influenza last fall. When.
-ecovering, a soft bunch appeared on his
hock. hock. It is bunch appeared on his
how as large as an
orange. soft and movale movable.
SUBSCRIBER
hard to remove, but care and patience in drams each is usually successful. Take 4 and iodide of ammonium of potassium each of alcohol and glycerine. Mix Rul)
a little well Repeat the prescription once daily. hecessary and exercise as often TENDER MOUTH-LUMP JAW When the bit is in her mouth, she mouth. a great deal. I have washed the mouth some good. Water, which seemed to do 2. Conical lump appeared on cow's upblistered it, but it has not disappeared
$\qquad$ quire dressing. Get your veterinarian to
nttend to this, and then drive her with
an ordinary an ordinary snaffe bit covered with with her mouth when driving. Some horses have congenitally tender mouths. them gently with an easy bit to kandle 2. This is lump jaw. Give iodide of warm water and sprinkled on on her food.
Commence with dram doses and increase Commence with dram doses and increase
the dose daily by 10 to 15 grains until her appetite and desire for water fail
tears run from her eyes, and saliva frou
her mouth, and her skin becoles
When When any of these symptoms appear
cease giving the drug. Repeat treatmun DISTEMPER, ETC

1. Mare, due to foal in a few duys
has distemper. The abscess has just
broken
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$


80 PMコIROIEMEIROITE




HAMILTON \& HAWTHORNE, SImcoe, Ont.

Clydesdales, Percherons and Hackneys


 DR. T. H. MASSARD, Millbrook P.O. and Stn.
HODGKINSON \& TISDALE,
 beaverton, ont.
Importors and Breedore of Clydesdale and Heokney Horaes. Wo have on hand at prosent the ohoicest specimen. of Clydesdale fillien in Canada, also a few extra fashionsbly-bred young Clyde
gtallions. People mating good onos shonld before buying. Our farm, "Simooe Lodge," is situatiod near Beaverton, on James Bay and G. T. Railways. Long-distance 'phone No.
Beaverton on notification.

## 40 WAVERLY HACKNEYS 40



## Imported Stallions and Flllles.

Every one a high-class ector and a show animal. Splendialy-matched pairs
and singles. Poeitively the highest cless lot of Hacknoys to be found on any


ROBERT BEITH,
Bowmanville P. O. and Statlon.
W. C. KIDD, LISTOWEL, ONT. Importer of Clydesdales, Shimes, Perohemons, Belgians, Hackneys, standard-breds and Thomoughbreds
of highestpossible guality and richest broeding, Have gold as many stallions the last year as
any man in the business, with complete satisfaction in every case. Ihave always a lerge number
 LISTOWEL P.O. AND STATION

## BMITH \& RICHARDSON,

 COLUMBUB, ONT.,




> OUPE $\begin{aligned} & \text { I have on hand for sale another } \\ & \text { choice lot of Clydesdale stallions, } \\ & \text { newly imported, ranging in age from }\end{aligned}$ two to six, with plenty of size, style and good true action. Also one

Graham \& Renfrew's CLYDESDALES and HACKNEYS
Our Clydoe now on hand are all prizewinners, their breeding le, elilp-

GRAHAM \&

QUESTIONS AND ANSWERS Miscellaneous.

DUROC-JERSEYS AND POLAND Kindly give me the address of some Duroc-Jersey swine in Ontario. P. J. R.
Ans - Duroc-- Jerseys were advertised b
Mac Camphell
 page 812, and Poland-Chinas, on same
page, ly W. G. Baldwin, Colchester, Ont. INDIGESTION.

$\qquad$

dissolved in warm water, as a drench
Repeat the dose in 36 hours, if necessary
Dillow with was.
$\qquad$ gentian, night and morning for three
days. Feed lightly, $\begin{aligned} & \text { If blpating con- } \\ & \text { tinue or recur, give } \\ & \text { tit pints raw linseed }\end{aligned}$ tinue or recur, give $1 \frac{1}{2}$ pints raw linsee
oil and two ounces oil of turpentine.

STAGGERS IN PIGS.
I have a litter of five pigs weaned
about two weeks, which appear to be all
right. They

$\qquad$
Ans.-This trouble occurs not infre quently with young pigs too liberally fed
and is generally supposed to be the re
sult of indigestion sult of indigestion, but is not well un
derstood. It is also thought to be the nature of appoplexy from a rush o
blood to the head. Feeding dry meal
and giving drink in a separate trough has been recommended as a preventive
also mixing food less sloppy, say in a
thick, pasty form on a clean plank floor, so they have
eat more slowly. Any food tending to
relax the relax the bowels will be helpful. A mix
ture of charcoal, ashes and salt kept where the pigs can take it at will may
also have a good effect. Can any of our
readers sughest a better treatment or FALL TURNIPS VS. SWEDES, ASHES FOR POTATOES 1. What difference in feeding value
is
$\qquad$ in quality? Would the white turnips
keep up till January 1st? Are the
white turnips subject to aphis? Are ashes valuable to a potato
How should they be applied? Ans.-1 SUBSCRIBER. Ans.-1. Henry gives the following
comparison: ${ }^{\text {givedes contain } 11.4 \text { per }}$ arden, matter, of which 1 per cent. is
protein, 8.1 per cent. carbohydrates.


HORSE OWNERS! USE CAUSTIC






JOHI CHAMBERS \& SONS, Holdenby, Northampton, England,
$\qquad$
Long-distance 'Phone. St. Thomas, Ont.

## Dr.Page's English Spavin Cure.

For the oare of Bparing, Bingbone, Ourba,
Bpintu, Windeals,
Brite



Nen inesa She hair. Money yefanded, and will not lifi



Imp. Clydustala Fillies !


 and reo them.

SHETLAND PONIES!



 CAMADIAN CLYDE STALLION
FOR SALE

LOTHIAN PRINGE (4000) C.c.e
 H. G. Boag, Barrie, Ont.

## By MR. DOUGLAS H. GRAND, Auctloneer Important Unreserved Sale of Prizewinng pedigree HACKNEYS

HARNESS HORSES
The property of R. G. HEATON, ESQ., at The Ferry Stud Farm, Chatterls, Cambridfeshime, England, on
Monday, June 17th, 1907
The Monday following the International and Richmond Shows.

 aires by Garton Duke of Conasoght, Mathias St. Thomar. Also suparb colleo oyal Danegelt, Polonius, Lord Hamlet, Ganymede, Diplomatist, et:





douglas h. grand, Auctioneer, or R. G. HEATON, ESQ. Woloh Harp stables,
Hendon, Middilesex, Ens. $\begin{gathered}\text { The Forry stud Farm. } \\ \text { Chatteris, Cambridseshi }\end{gathered}$


THOS. IRVING
Winchester, Ont.
Established for over 30 years.
Importer and exporter of HACKNEY.
SHIRE SLYDESDALE and
New importation of winners
just arrived 90 . of Montreal on $C$. $\mathbb{P} . \mathbb{R}$.

OAK PARK STOCK FARM CO., LTD. BRANTFORD. ONTARIO.
Breeders and Importers of Hackneys. Cl Breeders and Importers of Hackneys. Clydesdales.
Shropshire Sheep, Berkshire Pigs and Scotch Cotlie Doos 2 Choice Hackney Stallions for Sale.


CLYOESOALES AND FRENCH COAOHERS, IIMP,

$2=2=5=5$ =3wasw $=$ ROBT. NESS \& SON,

QUESTIONS AND ANSWERS Miscellaneous
cows chewing bones. What would be good to give cow
satisfy their desire to chew bones ? Ans.-Pतison will effectually remov
their desire. We know no other certain
specific. The chewing of bones becomes
with some cows, a chronic habit. It is pecific. The chewing of bones become
with some cows, a chronic habit. It believed to be induced in the first place
b defficiency of some of the mineral mentsicincy of some of the mineral el seing nost probably phosphoric acid. I meal, phosphates, and sometimes lin di ashes, may result in the growth nals' requirements. The feeding of a balan
ed ration, one containing enous foods, such as clover, alfalfa, bra oil meal, is advised, though no
suaranted to cure the habit. About a e can suggest in the wabit. About a
on allow plenty of salt, and feecifics onc or allow plenty of salt, and feed, onc
or twice a week, a small closed hand
ful of sifted woord ashes We CONCRETE SILO We contemplate building a concrete sil
this summer. What should one cost feet in diameter by should one ceast -1
would be the proper prent ? What
and Would be the proper proportions to mix
What the thickness of wall necessary, an
how many tons of ensilage would sil many tons of ensilage would silo
his size hold? Also. how many ton
how ensilage would we be likely to grow in Ans - Such a silo should cost not over $\$ 140$ or $\$ 150$, not counting the cost
hauling the gravel. In mixing the con
rete, be guided by the mamuncturer
$\qquad$
$\qquad$
$\qquad$




## 號 <br> 



$\begin{array}{lll}\text { BOG SPAVIN } & \text { CURB } & \text { LAMENESS } \\ \text { BONE SPAVIN } & \text { SPLINT } & \text { SWELLINGS }\end{array}$ CURED

KENDALL'S SPAVIN CURE
 "I am treating two horses-ane with Spavin- the other.
with Poll Evil. Iam using Kendalls Spavin Cure and must say
Ifind
 \&1. a bottle-6 for *5. Our "Treatise On The Horse" will give vou many
a hin as to tow to keep horses free from blemishes and lameuess
for frite DR. B. J.


## Ih.II DAIRYMEN

Do you know how much oach cow la earning for youl The Peerless Babcock Tester IT WILL TRLL Yoo ORDER TO-DAY

-BOTTLI MAOBLNE, PRIOE, Be.o

## C. Richardson \& E!

Does see

## LONDON

 CEMENT PRESSED BRICK MACHINE, Monaro the hationt maker or hivh-itrace



## LONDON

Conorete MachInery Company
28 Redan Stroet, London, Ont.

## Queenston Cement <br> suocesufully aned by the farmers of Omario for over 80 yearn. Direot from manafaotarer to oonvamer.  Iseac Usher, Queenston, Ont.

HORSES FOR SALE
 2 hor wors and mares.
3
3
4 hrobes and mares

 The Sunnyside Herefords.

4
 Broxwood Herforids

For Sale.
R. J. PENHALL, Nober, Ont. Advertise in the Adrocate

## Ingleside

 Herefords.
## BULLS

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"KEEP ON
the best herd bulls in Canada and
One yearling bull by "Bourton
Ingleside.," aleo a fine lot of bull
calves, sired by the above noted herd
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Females for sale: All ages, best
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FOREET VIEW FARM MEREFORDE four bulls from 8 to 18 months old; prisewin

Lice Kill the Chicks That sleepy-acting chick is infested
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lose the whole broo lose we whoe brooi . Dust each
obick with s verg little Intant Louse
Killer, and dust the hen thoroughly When you next set a hen, do not fail wonderful insenticide.

> Instant Louse Killer
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cans and being a powder may be used winter or summer with equal convenience. Sold on a positive writ are many imitators
1 lb .35 cents 3 lbs. 85 ceats. If your dealer cannot supply you, M
Dr. HESS \& CLARK Ashland, Ohio, U. 8. A.

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The Salem Herd of Shorthorns
IS HEADED EY JILT VIOTOR (IMP.) It contains a number of the most noted
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Write for
R. A. \& J. A. Watt, Balem, Ont Elora station, G. T. R. and C. P. On


1 - U L 16 months old, sire py Royal Bruae. im
ported. 2 R 10 montiby
old irod by Lord

 High-class Shorthorns -Junt now we are hirrs of ahow-ring form. pure Bcoteh, the ge
 A. DUNOAN \& SDN, Carrluke P.O. Ont

## Maple Leaf Shonthorne

 Chancellor's Model heads the herd. Some good pigs for fale. Terms reasonable. ISRAEL ARLINGTON SHORTHORNB AND LEICESTERS y Christopher's Heir 45459 ; also a monthe ota Scotc English Ladye, Mildr
 Royal Prices moderate. F. W. EWING
a.om P. O., Elora Sitation.

SCOTCH SHORTHORNS



Scotch Shorthorns A grand pair of
 Will be gold right. C. RANKIN Redren soed
Wyebridge P. O.,


## Belmar Parc Shorthorns

W
E think we have as great a lot of young show animals as has ever been on one farm in Canada. Our herd is large, the individuals are choice and of the richest Scotch breeding, and our prices are moderate. 15 young bulls. 25 heifers under three years. A splendid group of breeding and show matrons Mostly in calf to the champion Marigold Sailor $=53258=$ and the prizewinning Nonpareil Archer (imp.) $=45202=$. Pembroke is on the main line of the C. P. R arrive Pembroke 12.05 p. We prefer yon to see the cattle but if you ean't rimo in filling mail ordars satisfactorily

AT "MAPLE SHADE" Our young bulls are the best that our herd has ever produced. We can
furnish Cruickshank bulls of high quality to head the furnish Cruickshank bulls of high quality to head the best herds, and
come that should produce the best prime steers. We have a bull
catalogue. Send for aome that should produ.
cotalogue. Send for one.
JOHN DRYDEN \& BON, Brown : Brooklin, G.T.B. Mrookllin, Ont
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e. J. PEIRESON, BON Btations: MOAMNY.

Speclal Offering of Scotch SHORTHORN BULLS
$\frac{9}{4}$ juat past twor yeare old; 15 just orer one year old ; 7 jusi and priceos arer it ibht. Coro had tobelofier in in individaality and breeding, John Clanoy

> Manager.
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19 Bulls. PRESENT OFFERING 75 Cowe and Helfor 1 imported bull, 3 two-year-olds, and 15 yearlings and calves from 10 to 18 months old-all from
imp. sires and ohoice deme. Cows and heifers eal ages, inoluding some show animals. 1 imp Clyd didale marer our years old. due to foal May 1st. Wi We will books orders for young Yorkshires
lor May delivery. Burlington Jot. Station

Ont.


OUESTIONS AND ANSWERS. Miscellaneous.

PROTECTING A CONCRETE
WALL. I intend to build basement wall
gravel, stone and cement, for a bar
80 a gravel, stone and cement, for a bar
$80 \times 444$ feet, the coming summer, and put
the barn on it early next yoer

Maple Lodge Stock Farm 1854-1908 Am now offering a grand lot of
young Shorthorm ands, several Soung Shorthorm bition sevorl
A. W. SMITH, MAPLE LODGE, ONT. Six Red Shorthorn Bulle



J. T. GIBEON, Denfold, Ont GRRENGILL HinRD of high-olese 8HORTHORNE We offer for sale 8 young bolls, an number
of them from inmp siro and dem ilso
 R. MITOHELL \& Soms [alcom P.O., Onts Burlingtom Jume, ete T. DOUGLAS \& SONS strathrov, owt.


EENWOOD STOCE BHOPTHORNE.




 SHORTHORNE YORKSHIRE and Ei

 months oid, imp. sire and dam. Leghorn egse Binkham, Ont., Erin etution, O. P. R.
Shorthorn Bull-Prince of Stara $=$ Peson=



A pupil in a chatha Square, New York City, thus defined the
word i. spine ": . A sine limber bone; your head sets on a long,
lime end

and you set on the other."- LLippin on | on head |
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"Cheap" paint is the kind you DON'T want. "High price" paints cost more than they are worth, because you can buy better for less. Ramsay's Paints are the happy medium. All the goodness of the most expensive kinds-with none of the faults of the "cheap." They are mixed just right-always the same-and hold their surface and their zolor through zero snows and torrid suns.



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Shorthorns and Leicesters
 cows with calf at foot. Leicoesters of all agee Address: W. A. Dougtas,

## 8homthome, Cotswolds

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QUESTIONS AND ANSWERS Miscellaneous.


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| FINE STOCK FARM |
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Aired by the grandly-bred imp. ball, Bir How



H. E. GEORGE, Crampton, Ont
"THE MAPLES" HOLSTEIN HERD
 Mech hindide Calamity.
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Lyndale Holsteins
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Select your stock bull or family cow from Canada's most
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AYRSHIRE CATTLE



 SpRMaunk stook Farm moth

 'HANMON BANK STOCK FARM
 AYASHIRES FROM A PRIZEWIMNING HERD

 SHROPSHIRES Can ail boon R Ram Lambe




QUESTIONS AND ANSWERS. Miscellaneous.


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ulcers, eto. All stores and druggists sell alcers, etc. All stores and druggists sol Buk. Co., Toronto, for price. $\mathbf{c}^{6}$ boxem
for $\$ 2.50$. Send lo. stamp for trial boz.


Has no equal. One dipplng kills ticks, Hice
and nits. Increases quantity and quality and nits. Increases quantity and quality
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HANPSHIRE DOWN FLOCK (metablisege in 1874), the property of Mr. T. F. Buxton, who is giving
up ram breeding. undoubtedly one of the best in the bread in existonee, and possoesing a bril
iant show-yard reoord. Will be sold by anotion FRIDAY, JULY 19th, 1907. This grand breoding flook oonsists of sbout 800
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00 on propald on ione:
CHESTER WHITE BWINE and SHROPBHIRE SHEEPP. Right in qual-
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litiome and Bee, or apply by ity right in prioe Come and gee, or aploly by
letter to W. E. WRIGHT, olanworth, Ont. For Sale - Ohio Improved Chetor whitient.


of Choicest Type and Breeding, I have on band 75 brood sows of Princess Fame, Cinderella,
Clara, Minnie, Lady Frost and Queen Bess strains. My Clara, Minnie, Lady Frost and ruest breeding. For sale
stock boars are true to type and richest be
are a large number of sows bred and ready to breed, ioars fit for sarvioe, and younger ones of both seaxes. Pairs, and trios
not alin. W. BOYLE, P. O. Box 563 , Woodstock, Ont. anstock Herd of Large English Berkshires

Comen
Woodstock Herd of Large English Berkshires
 Box 1 , Woodstoek

$\square$ Rosebank Bepkehires. - Prosent ofraring:
 Tetroy, 1 B B
 BERKSHIRES

| OAKDALE BERKSHIRES |  |
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| PIE GHOHE DERKSHIRES | LaRGE ENGLISH YORKSHIRE: |
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OUESTIONS AND ANSWERS Miscellaneous.

CORN FOR HUSKING-EMMER Have a piece of new land to break u
I want to pasture it as long as I and then put in corn. Could you please
tell me the best variety to plant that would make the best corn in cob, and
also the best stalks for feed, as I I intend
to cut it up for winter feed?

Anns. -1 . White Cap Yellow Dent, Comp
thould give sangfellow or King Philliy
shisfactory results
should give satisfactory results.
2. Fmmer (Triticum dicoccum) is on
of the seven distinct types of wheat
the seven distinct types of whea
recognized by botanists. It should
distinguished from spelt (Triticu
spelta), which is not nearly
spelta), which is not nearly so valuabl
A certain amount of emmer has bee
grown in Connado
grown in Canada, however, under the
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mistaken name of spelt. $\begin{aligned} & \text { Emmer } \\ & \text { grown in Russia, } \\ & \text { Sormany, } \\ & \text { Switzerlan }\end{aligned}$
Gerner
grown in Russia, Germany, Switzerland
Spain, France, Italy, and to a slight ex
tent in some other countries. For the
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perimentally at the Ontario Agricultura
past seven years it has been grown ex-
perimentally at the Ontario Agricultura
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Northern Alberta is the gardon
land of the West. TThe distriot around MILLET is unsurpassod. The town prosentim openings. For full informa
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 With tiain mata Joor have the oomport and knompaligo if



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The windaill daring the dry, hot. callm


 stagnant water isn't any more wholesome for horges and cattle than for human beings
 the Etanolino ensine is such acomplicated dit of medhanism that it almost require An Fronomy Hot Air Pumping Engine will burn wood, charcoal, coal, ooke, gaso-
 The Foonomy Hot:Air Ensin io sold subjeot to an unconditional suarantee We will send an Economy Hot:Air Enging to oon on approval, and if after ten any: trial it is not an roprosented you may return it to ue. Writ ut, and we will end you our illustrated bookiet. Which describes fully the ond

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GOSSIP
Mr. David Barr, Jr., Renfrew, Ont., orders a change in his avertysement
this issue, in which a good young roan Shorthorn bull is offered for sale.

The noted Rawlinson Stud of Rancho bred Hackneys, from whence came the and other prizawinners, including the full sisters of Saxon, Pricilla and Menona. champione at St. Louls, is advertised to be dispersod by auction some tlme in Sune, and may be obtained by writing Jordison Bros,", auctioneers, P. O. Box
1172, Calgary, Alta. $A$ Brand lot of 1172, Calgary, Alta, A gran iot of
brood mares, sired by Robin Adair and other high-class horses, are in the sale.
this should bo a fine opportunity to obCtior shourd, a a fne opportunity to ob-
tain strong, hardy breeding stock, full of quality and endurance. See illustrations
on another page in this paper. also the on arother pag.
advert sement.

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Ito has been a winner from colt-
hood up, is an ideal type of the breed,
with a style and anshiness of action that commands admiration, and. as a
show horse, he has had few equals in the Canadian show-rings. Among the brood
mares, probably the pera of any is
童 mares, probaby uno peor on any is
Rosalic, a bay six-year-old, by Matchless
$\qquad$ one of the most sensational, alluround
actors alive, besides being a remarkably Sweetly-turned mare. She is about due
to foal to the champion, Rosary. Siaxon

$\qquad$
Craigalee is a chestrut. rising five, by
Imp Ganyede. This is a very stylish,
flashy-movine
$\qquad$

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A Montreal news despatch, dated Ma 3th, says: ". Dr. Shirres, of this city is not likely to forget. While out riding on Lachine road his horse was attacke by a bulldog. The dog sprang at th
horse's hindquarters, and tore him badly and when the doctor dismounted to sav his horse, he was attacked by the dug and badly bitten in both feet, and severa
toes will have to be amputated as sult. The dog escaped, although a vi ous search was made for him by th police
Colwill Bros., of Newcastle, Ont., wh have been wonderfully successful in the for many years, have lately strengthened importation of a stock boar from by the the leading herds of England. No breed of any class of pure-bred animals in Can-
add to-day was in such need of fresh blood as the Tamworths need of fresi will deserves the thanks of every Tam-
worth breeder in supplying that long-felt want. This young hog is seven months sow that has repeatedly won the championship of England, and by a noted
prizewinning sire. He is an ideal bacon-
type hog, strong-boned smooth type hog, strong-boned, smooth and
even. Just now. Mr. Colwill is offering a large number of young sows, bred to him, and got by Colwill's Choice and Newcastle Warrior, both championship
winners at Toronto. This is an offering of choice young Tamworth sows that has never before been equalled by the make a in Canada. Tamworth breeders
note of this. This firm is also offering a few extra nica Shorthorn heifers of heavy-milking strains, nearly all Imp. Joy of Morning with a son of by Imp. Oxford, and being bred to the present stock bull, Baron Tulip $=53879=$,
son of Imp. Baron Beaufort. There a son of lmp. Baron Beaufort. There are
also for sale two young bulls, bred the

When in Bowmanville, Ont., a few days ago. .. The Farmer's Advocate ${ }^{\text {P }}$ " road
representative improved by calling on the Ilon. Robt. Beith, and was favored with a look over his magnihe time of our last visit some ago, we found the horses to a more or rough sea voyage, but our "hoss "
sense and instinct told us that here was
cest Hackneys ever landed on Canadian
hores, once they got on their feet and filled out with good Canadian hay and ions more than fulfilled, as the dozen or
hore were, one by one led out and sent hrough their paces as only "Jimmy's"
master hand knows how. We were cerprovement they presented, not only onl in
condition, but in action and manners as selected by Mr. Beith in person, acknowlHackue fugges on the continent, and
they were bred by the two leading Hack-
hey breeders of the 1 rritish Isles; sensaTonal in action, royal in breeding and
verfect in contour and quality, about describes the bunch. A coming champion
is a brown two-year-old son of the great Copper King, a colt of exceedingly sweet
nould and superb action. What particuand
nuby. They are four and five years old a grand pair indeed, beautiful at rest,
onderful in action, practically fautless "Onderful in action, practically faultless
in make-up, a pair that when fully edu-
cated, single, tandem or double will certainly be invincible. Another pair of
leccedingly well-matched daughters of
Ruliy are a pair
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[^0]:    Strose a man has 12 acres to drain and the slom

