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## TURST DOTATO ORCHARD SPRAVER




# The Farmer's Sdvocate Persevere and Succeed." and Home Nragazine 

c
EDITORIAL. REGISTRY OF IMPORTED CLYDESDALES. The representatives of the Clydestale Hors Association of Canada are certainly entitled to Asongratulation and commendation on their succerss in inducing the council of the Scoltish Asso-
ciation to give registration numbers with the ex. ciation to give registration numbers with the ex- is one great advantage, namely, the prices have port certificate in case of animals coming to this delivered wheat is in the neighborhood of twenty country. It was a good deal to expect from a cents per bushel higher than at a corresponding
people so
generally their institutions, but their prow rhial frugality the producers, will realize as much for their crops
evidently proved their vulnerable point in this as last year, and there is also the prospect that enlergency, as they could not well afford to continue will be handled cheaper and marketed more
a course which, in view of the action of the Cana- readily. In spite of these prospects, however. dian Assoriation, would have seriously checked there is a general tendency following the example
 Id the pockets of the hreeders And it was an predominating feeling of tight money. This atoutingent in taking advamage of the circum- country at large. Conservative progress is altances tor raise the standard oi registration, ways to be cormmended, and Western Canalan was
"hhich was ourtainly conoms, and for other reasons, there is much to advance of associated comditions and facilities.
$\qquad$ much below the average for the past ten years, attained would seem to resolve itself into the
The peeuliaritics ol this wesson hate The peculiarities of the season have prevailed all need of action first of all on the part of the brecters themselves individually in seeking by setection and eline sires and dams most like Iy to produce the ideal dual-purpose class of cat-
the. It is, we believe, generally conceded that, as a rule, the best milking corws even in the beef breeds are the best breeders, their progeny being strongest in constitution and the most kindly
feeplers, making the best use of the form sume and developing into the tost likely winners in the competition for trueness of conformation and quality of nesh from the standpoint of the mittod bred from a deep-milking cow will the the the to transmit the thilking cow will be most likely to transmit the milking tendency to his offspring,
and that heifers bred from such cows, if intelli-
gently treated during the first year or two of

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mediocre milking cows require to be fed for flesh

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ing. If this be true, need we wonder if the num-

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Is not the idea that calves raised on skim milk

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& \text { pail in calihood Is it not simply a question of } \\
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breeting from bulls bred from deep-milking cows,

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rhe Farmer's Advocate and Home Magazine
the leading agricultural journal in the DOMINION.
$\qquad$ john weld, mannoer.
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bred along superior milking lines he will the likely to look for a smooth one in a dairy-bred herd that will com
pose animal.
Is there not here a field for useiul work on th part of the Dominion Shorthorn 18reeders Asso-
ciation, with its bulky surplus, ample of the Einglish and American Association in offering prizes for milhing tests as well as fiations competition by inspection
Professor I)ay's article is timely and full food for thought on the part of hre,ders, and it work in this line is contemplated hy experiment stations which would appear to be peculiarly
fitted for it, and that work in connection with some phases of the problem is to be undertaken t Guelph
erseders primarily looh for the merincinally that the farm cattle along the lines indicatcol, thoush w... fancer - in the face of these (breeding) poblums experiAGRICULTURAL LEGISLATION FOR B C Veterinary Association her bor b. other legislation of importance to the farmere if the Provincial Legislature, was ath art incorporat ing the 1
corporation of this society enables the authorized and qualified veterinarians
ect themselves from the compertition and incon petent services rendered qualified persons claiming
geons. In order, now, to practicurabritish Columbia as a veterinary surgeon, it to register, and in ord
school or college, where the regular curriculum is
not less than three sessions of six months each not less than three sessions of six months each,
or, in lieu of this, they must have been in regular practice in the Province for five years prior to the passing of this act. These regulations will profied services of against the fraudulent or unqualihave gained their knowledge and experience by taking a six-months' course at a correspondence taking a six-months course at a correspondence
school, or at some college where degrees are tainable in exchange for a small sum of money
An Act to Protect Horse-breeders.-Legislation sary for the at the last session making it necesprofit or gain to post up copies of certificate of such stallion issued by the Provincial Department of Agriculture. The certificate above referred to will state whether the stallion is pure-bred, and registered. If not registered, whether one of its parents is pure-bred, or whether from pure-bred parents of different breeds. This act also allows
the owner of a stallion to the owner of a stallion to register a lien against
the offispring of said stallior, any time within months after the service of such stallion. and the same will constitute a first claim on said the spring. If payment of the service fee is not made before the first day of January in the year followe ing the year in which the colt is born, the owner of said stallion or his agent, may at any time session the first day of May following, take poslic auntion said colt or filly, and sell same at pubto the pen, after ten days' notice has been given found. This in whose possession the said colt is of January act comes into force on the first day of January, 1908. The question of examining stallions for hereditary unsoundness, and issuing certificates accordingly, was considered, but was effect before many years.
vincial Act to Aidersity the Fistablishment of a Prodecided, at its last session, to set aside two million, acres of land for the endowment and support of a
university. The act states that be non-sectarian, and strictly sccular. It author izes the maintenance of Faculties, including Arta and Science, Medicine, Law, Appliel Science, and university. If the land is selectermined by said cality where it is likely to increase in value the revenue from this land should go a long way to-
wards the maintenance of such an institution. portant from an agricultural standpoint. Bostide cultural acts, were several amendments to agrisuch as Acts. of more or less interest to farmers, Fences and Watercourses; the Land I Aws I ine appropriation was made for the employene. An experts to investigate the irrigation question and report. This is an important matter, as a mountain districts depend entirely upon irrigation
house production is a term of contemp tored uses for all those things which fich ditions the pure air of the mountains, and livine fleeing regime which is as vigorous to-day as it is truly sical and mental weakness trape the penalty of phywho yesterday departed from smitted by parents life in which they were from the simple ways of mined, in riotous living, the sound physig underwas originally theirs ; or who, themselves, failed to heed the warnings of the prudent, and wrecked early, by their own excesses, the most precious gifts of bodily perfection, which, once lost, an never be compensated for by anything else in the

A
great lament went up some few years ago the the publicists of the Government Bureau that treated, because steading were awfully badly The care and tenderness employed with children. It is, indeed, as we have said, false kindness to unduly pamper the child; it has transpired that the fatse husbanary to so treat animals either in ousing or feeding, as if they were too tender for age of pired? Peorm in the foddering. What has trans. procured the ans highe another, have best constitutioned hattle and and not always and poultry, and so fed and coddled, steep, pigs have, in short, undermined their health as miated, to a very great extent, their an an The country stock farms, too, have been the grent much as in this. The dairy cow was not so on her : that was breath of winter air let in upven, for it took a wealth of $\sin$ not to be forforsooth. Now those superheated herds are aking the outdoor or open-air cure for tubercuhe spoon-fed had to be slaughtered outright. And nferior to those which occupy a place altogether on of ordinarily well are theated alter tash heep and poultry may he said to horses. Swine, Greatly, too, wherever normal conditions were in wis way departed from notably. For yeare and worement has proat disgust of the old-stager, this if care, till progressed towards a false delicacy stretch of its upward motion, and now it is ast fressistently tending to extremes in the opposite direction, if certain signs are to be read literally. wil, there must be a virtuous standing-point beith wh no lack of assurance, ". Est modus in rebus," here is the proper way in everything; and the matists of their past ages have equally well declared, "In medie stat virtus." Let us, then, Now extreme conduct in anything. mdress, at Hillshommenced with Dr. Robertson's perience in the simple tife papers report this founced by him, it having been tried at as ante. Anne's. If authentic, it must revolutionize fod to be truc, at counstry werer, It seems too Fict filford will vouch for it entirely. It is a "ll remark and if life possible for fowls, all Wave been condemning, then the medium which hatd cotme to regard as true in this poulterycs. and must be fuickly brought from its bear-
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Ratcliffe Forest King.
Shire stallion; foaled 1904. First prize and champion, Royal Show, 1907, Shown
his town house, which used seven dozen a week. His man came to our place and bought from us
the seven dozen of eggs, for which we charged him sixty cents per dozen. Our hens were educated bens, living by labor, under naturally rigorou
conditions."
A. E. BURKE

## HORSES.

LAMENESS IN HORSES
A SPRAIN OR STRAIN
A sprain or strain may be defined as violence infteded upon a soft structure, with extension and
often rupture of its fibres. A sprain may be sud denly caused by violent extension or stretching of
soft structures, or by repeated slight stretching soft structures, or by repeated slight stretching
without a rupture of fibres, in which case the re peated tension produces an altered nutrition, which results in inflammation of the part, and finally to a softening of some portion of the fibres, by which broken across. A slight sprain may be practically merely a bruise, while violent and excessive extension may rupture the whole structure of the
part. part. Extension is not always the cause of a condition, viz, violent contraction, by which the fibres may be broken across or the tendomous
fibres torn from their attachments at either end fibres torn from their attachments at either end
of the muscle. Sprains produced in this way are of the muscle. Sprains produced in this way are
sometimes noticed as the result of the violent contractions of the muscles we notice when a horse is being thrown with hobbles or sidelines, or by
violent efforts to loosen himself when down; in vain efforts to regain his feet when halter-cast,
etc. etc. Sprain may he confined to the sheaths Sprain may be confined to the sheaths
or fibrous coverings of the muscles (each individual muscle having a separate fibrous covering called a pared with sprain are of minor importance compared with sprain of muscular fibre, tendons or
ligaments. Sprain of muscles or tendons are
found found in various parts of the body or limbs. ing on his head. If the fall be severe, the sprain some of the bones by injury or even fracture of some of the bones of the vertebra, and this may
cause sudden death. The muscles of the back may
be be sprained by the hind feet siipping forward.
When a muscle is sprained, the accident is succeeded by pain, swelling, heat, and loss of func-
tion. An inflamed musct tion. An inflamed muscle cannot contract proper-
ly, the loss of contractile power being in proporIy, the loss of contractile power being in propor-
tion to the severity of the sprain, hence, in some
cases the symptoms simulate those of paralysis The swelling of an inflamed muscle is very often succepded by a loss of substance, a wasting away,
calleel atrophy; and sometimes by fatty degenera-
on of its fibres. wherehy - on of its fibres, whereby they lose their red, threads of fat. When examined by a microscope,
the contractile tissue. called the sarcous elements, the contractile tissue, called the sarcous elements,
is sen to have been replaced by glistening oil partiers, so that the function of the muscle is
tempararily completely destroyed. If the whole muscle is involved, its contractile power no longer
oxiste
vessels and the exudate vessels and the exudat
out into the tissues a
same. Second, atrophy, ame. into the tissues as muscular tissue, irom the pressure a wasting away of upon the muscular fibres, and from this exudate cion. It is a well-knowr fact that if, from any will gradually become not perform its functions, it this want of function be accompanied by the pres-
sure noted, the atrophy will be more speedy sure noted, the atrophy will be more speedy and
better marked. Third, fatty degeneration of the sarcous elements, and permanent loss of contrac-
tility. tility.
Treatment for sprain depends to some extent Treatment for sprain depends to some extent
upon the seat of the accident and the tissues in-
volved, but the general treatment may he said to volved, but the general treatment may be said to
be : First, locate the lesion, give rest, make comfortable in a box stall, if possible; give a slight purgative, as 6 drams aloes and 2 drams ginger,
and feed lightly. If the sprain be very severe, causing complete loss of power of a limb or limbs, it is well to place in slings. Bathe the affected parts long and often with hot water, and, after
bathing, apply an anodyne bathing, apply an anodyre lotion, as 1 ounce
laudanum and 4 drams acetate of lead to 8 ounces water, until the acute infiammation and soreness has disappeared, then change to cold water and camphorated liniment. If the lameness is perbiniodide of mercury and cantharides, mixed with biniodide of mercury and
2 ounces vaseline. Cliip the hair off the part.
tie so that the tie so that the patient
cannot bite them, rub
the blister well in daily for two days; on the
third day wash off and third day wash off and
apply sweet oil apply
patient loese oil; let
low, and oil every day. It may
be necessary be necessary to repeat
the blister every month the blister every month
for a few times. The
blistering tion blistering not only has a tendency to cure the lameness, but, by stimto reduce any chromic swelling that may remain from organization
of the exuclate that was thrown out during the
inflammer inflammatory stage of It is astomishing how conservative E a stern
farmers are in the mat ter of economizing horse-
flesh. Tr avellim
throuch raver flesh. Travelling
through the country we often see a farmer and his hired man at work ing or doing other work
with a two With a two-horse team horses abreast, and let wage.


Copmanthorpe Performer (9670)
Hackney stallion, chestnut; foaled 1904. First in class and reserve champion,
International Show. Iondon, 1907.


Linksfield Champion (86401)
Shorthorn bull; calved May, 1903. Winner of first prize and male championship,

Cong, and will bre de ter, of Massachusetts, the following letter
 stochman who had tried the new system at In
Santee's suggestion: .. The condition of my stock, plant and equip-
ments was such as to merit good report. ninety, when you first visited me on Decembery 1906, and the suggestions which you then and since have so willingly given me were taken al antage of to the end that when you again spected my establishment here on February 99
1907 , you felt that conditions were so murh proved as to merit excellent report ns much ime
a medal, it follows that sound parents have to be The lambs' tails should be used to obtain the desired results.
Although twenty years of improvement may be claimed by all the leading British breeds of horses,
none can equal the heaviest dralt horse for making none can equal the heaviest dralt horse for making
headway and finding supporters.

## LIVE STOCK.

COMMENCING TO KEEP SHEEP you can regarding the raising of sheep. The writer has a hill farm property admirably situated a dew hundred sheep, but has no purchasing a tew hundred sheep, but has no knowledge
whatever of the raising of these animals, and would like to hear from you with all information
possible. possible.
In reply we would say first of all that in our
opinion it would be unwise for one having no experience with sheep to buy the number mentioned until he had a year or two's experience in handing them. We would rather advise starting with purchases in October and mating them in No vember, so that the ewes would produce lambs April and May, five months being the period of gestation in the case of the ewe. If you have
clover hay in stock the ewes would winter fairly well on that alone, providing they had free access to salt and to water, or even to snow, and were fed a quart of oats per day when within a couple of weeks of being due to have their lambs. If you
have not clover hay or roots provided it would be almost necessary to feed them a little grain all winter to keep them in thriving condition and prepared to secrete milk sufficient to sustain their
lambs. We would not advise buying pure-bred lambs. We would not advise buying pure-bred
ewes to start with, as such probably could not be bought for less than $\$ 15$ to $\$ 20$ each, while fairly good grade ewes could perhaps be secured for one-third these prices. The ewes purchased
should be from one to three years old, as ewes are seldom profitable. to keep when over five years old, though some favorite breeding ewes have bred regularly up to ten or twelve years, or more one year old the middle pair of tront teeth are
replaced by longer and broader ones, at two years old the four central teeth are broader and longer than the others, at three years there are
six of those broad teeth up, and at four years eight, the full number of front or cutting teeth. After the fifth year the age of a sheep is known altogether a sure guide, as a flock living on a poor pasture or on sandy soil will more quickly wear down its teeth so as to indicate a greater
age than is real. The rams selected should te pure-bred, of the irreed of your choice. A good strong ram lamb eight or nine months o d woun
attend to 25 ewes, and for fifty ewes two ran lambs or one yearling or two-year ram should be
obtained. If mutton be the principal product in view, or mutton and medium fine wool, rams of or of the Down breeds, Shropshire, Southdown, while if greater size and wenght of flesh and wool be the object, then the lincoin, Cotswold oxiord
or Leicester might more profitably fill the bill. It is wise to continue from year to year using this course the best oif the ewe lambs heing rethe stock, the flock will with each generation bo"ome moulded more and more into the character stockmen who hav
had had experience. That
fact stands out that
in in poultry -house tilation has prove
such a practical sur eess that. as Prol nell l'niversits, sall to us recently in an
interviow, alsthon
it regard it established
of poultry const puction. - homs
ticablute for houses. why not in
other stables? have already jul lished a number
contributions perience from dair men and stockment me below. In

The lambs' tails should be stamped doched, and the
ram lambs castrated at the age of two or three weemfort ins is necessary to the cleanliness and comfort of the sheep, and the male lambs will
fatten faster and give much less trouble if so treated at the early age mentioned. About the
only other special care needed by the dipping the lambs in a solution of one of the
proprietary dips in spring, a few days after shearing the older sheep, to destroy ticks or lice, and either dipping in or pouring on the same solution
in the late fall or carly winter to ensure against the flock being troubled with the same termin during the winter. It is a wise provision to have
a small cow-bell or two in cach flock or division a small cow-bell or two in each fllock or division as it is believed to have the effect generally
frightening the intruders, and. failing in this might, hy sounding an alar

MORE ABOUT MUSLIN - CURTAIN VENTILATION Believing, as we do, in the presentation of al
sides of every question discussed throung our columns, we quoted, on page 1322 , of our issue August 22nd, a condensed extract from an article
contributed to Hoard's Dairyman, by Prof. F. H.
King of Wisconsin who had heon invosi, King, of Wisconsin, who had been investigating the muslin-curtain system of ventilation in the
stable of F. B3. Lord, (edarhurst, N.Y. Prof King being the father of what is known as the best and most ventilation, which is probably the it is not surprising that he should be a trifle museludiced in his conclusions regarding the simple
the case, for some of and we far the surguments advanced by him against the curtain plan appear to be charHowever, it is not for us to undertahe at this stage to champion the muslin-curtain sostem. It
is fitting that the criticisms should be met by those who are in a position to answer them sanitary conditions, the score being ninety-fice
This betterment was chielly brought about by in This betterment was chielly brought about by in
creasing the light and ventilation in the barn, creasing the light and ventilation in the barn, by putting 90 square it of muslin curtain, such as
you suggested, which has been somewhat in the you suggested, which has been somewhat in the below given for your particular information, and through you for the benefit of all who may ye
he in doubt. After satisfying myself from vour statement of experience that the curtain was al right, I desired to try it, and taking my manager,
Colonel A. 13. Marshall, a practical and experiColonel A. 13. Marshall, a practical and experi-
enced architect and builder, along, 1 indicated to him where I wanted the side walls cut, and frames, with muslin only on, put in. Well. he looked at it, sat down to advise against such a really in human course, explaining his belief that it meant subjecting the cattle to unnecessary oxposurean the cold winds. which must blow through the mesh of the muslin during the winter, and indeed freeze hem. However, 1 persisted that they must be mild whe first two or three nights thereafter, being mild weather caused no alarm for condition of the thermometer morming of the lourth day saw hlowing a gale, when, at 5 a.m colonel Marshall, with his corps of men, approached the barn Whth feelings akin to fear and trembling, but on ronditions much more ideal than ever to find the cattle comfortable in a suitable temperature of Ary. healthy atmosithere, free from drafts and wroached the most exposed curtain, that facing the north-north-west wind, which was forcing it hardly py a serceite the outward attack, but he cold, and had to resort method he learned on the plains. of westing to a the wind, when at two inches from the curtain he being discovered the admission of air; but that ature of that within. was constantly driving eut the dampness and foul air, and furnishing the cold with pure atmosphere without noticeable manner. That morniny when the Cond economical he was, and is. an ardent advocate of the muslin curtain. and will say so to anyone. for both barn chagrin xperience in the use of muslin windows in wide hanics may contracting dampness, so that mehe most approved manner, who on the inside in willing to admit its utility on the farm been unonstration." rom experience and first-hand ohservation. Mean- Fwery farmer in Canada needs ${ }^{\text {a }}$. The Farmer's
time we contimue



Juniana Erica.

GASOLINE FOR STOMACH WORMS IN SHEEP
Having been a subscriber to The Farmer's fou for the valuable realing it contains every



 seot another dose in the fall') ot them, will they

A FEW PROBLEMS IN CATTLE-BREEDING Wany and varied are the prollems facinge the breeder of live stock. It is not the intention of
this articlec to attempt a solution or any of these problems, but rather to cail attention to a rew Which hace the catce-breeter, with a view to aid
 to give one pubte he ien ond olther expernenteder of cattic is the question of fashion in "welfigreess-
and hec may find himself sometimes driven to tol-
 cattlo, sheep and swince, und while it has had an morre poweriul influence ons some breeds than in time or another, came more or less, unter its








 lired." no matter how many sires of unsurpassed
?reeding and excellence appear in the pedigree brecding and excellence appear in the pedigree.
merely because the ncarest imported cow appears
a long way from the top of the pedigree, and does
not boast any of the biood which is most popular To day Surely the crosses subsequently intro-
duced have long since obliterated any trace of the
riginal hlood, and if the sires have bern wisely
chosen, why should such an animal he discounted? When we learn to study the law of heredity in-


an be no sound Surther cattle-breating of the introduction of The cattle-breeding problems in this article, but
the ones mentioned are sufficiently serious to fur-
nish food for thourht for some time, and we would ho has worked out even a partial solution of any one of them

## THE FARM.

GASOLINE ENGINES FOR FARM USE That the modern gasoline engine is the idea been recognized ever since its appearance as commercial success, and its use at the present time for almost every job which can be handled by
power to advantage, shows that progressive farmers appreciate its value; In some situations an engine can serve its purpose best by being in-
stalled as a stationary plart, and the different stalled as a stationary plart, and the different
jobs reached by means of line shafting, but this always requires the use of a larger engine, because of the extra work of running the shafting and
belting. portable ; that is, mounted on a skid, be semibe hitched to and readily moved from one place to another, anywhere around the farm. Where larger sizes are required to be moved arourd, it is necessary to mond cessfully all over AmericaThere is no farm work, from running a cream separator to threshing and plowing, that they are for. The adapting. of the gasoline gently cared ferent farm purposes has been a gradual evolution from the origiral heavy engines, with large watertanks and outside gasoline tanks, while at present er in weight and with special cooling devices for water that makes it possible row to run on a few pails of water, where formerly took the same engine has to be moved around the where the now carried in the engine base, except in the largest portable and traction sizes, when the gasoline years has seen a great advance in the past five the detail parts, particulariy in the ignition which has always been the weakest part, and has been the cause or a large part of the trouble that better; the ignitor itself is better made ther formerly; spark coils are more economical of battery current; piston rings are more carefully made, and hold the compression better; and general designs ard higher speeds, which means more power than cormerly from the same-sized cylinder.
As stated, one can find engines now at work on are all sizes of outfits, from the 1 water, there combined engine and pump, up to the largest sizes or irrigation. In dairy work, they operate separator, churns and butter-worker. It had been tor with a gasoline engine of the ordinary type or the reason that, with the "hit-and-miss systerator, by causing a very une was felt at the eparator, by causing a very uneven speed. The
introduction of the automatic friction-puley which can be attached to any make of separator has overcome that drawback, and by its use a ven speed is maintained, no matter how uneven


Royal Bruce (imp.) $=55038=273853$ (12023).
ing wood, a good honest 3 -horse-power engine can keep three or iour men busy, and will saw all they
can handle in a day. For chopping and grinding grain, the same 3 -horse-power outlit is capable handling from 10 to 16 bushels per hour, accord ing to the character of the grain and how fire it
is ground. It will be found that an 8-in. chopper is ground. It will be found that an 8 -in. chopper
is sutficient for that amount of power, as a larger one would only be a drag on the engine. There is not much gain for the farmer in using a large chopping outtit, for, by simply running the smaller
one a few hours longer, just as much work is done. and there is a good deal less cost for the outfit and the smaller ore is lighter and easier to move around. When it comes to running an ensilage cutter or thrushing, then the larger engines must
be considered, and the proper size of engine debe considered, and the proper size of engine de-
pends on the size of the machines to be run, and the attachments used on them. Through Eastern Canada, there are not likely to be used as heavy ngines as in the West, where threshing machines are larger, and where a good many traction
fits are used for both threshing and plowing.
The percentage of farmers using gasoline engines is larger in Western Canada than it is in the fact that the ground has been more thoroughly canvassed, and the selling agents have been moie aggressive than in the East. It would seem as if the large amount of dairying ard feeding done venient power as the modern gasoline engine, 1 it is a fact that the Eastern farmer is just waking up to the importance of a power that helps out labor. The fear of not being able to understand ably kept a great many from purchasing, and salesmen have very unwisely endeavored to impress people with the fact that all that is neces-
sary to know about an engine is to start it and stop it : that they require no attention, and only need to be kept in gasoline and cylinder oil.
In the writer's opinion, this has done the gaso-line-engine business more harm than anything else. The gasoline engine does require attention, and the
more intelligent that attention is, the better results it will give; but there is nothing about one not learn if they give it serious consideration and are willing to spend a few hours in trying to understand the principle on which a gasoline ef book usually supplied. It is a thing to remember that one-half the successful operation of an engine lies in the man who looks after it, and it is a good plan to study over any little trouble that
may arise and try to figure out the remedy yourself before sending for an expert. By trying to help vourself out of a difficulty in that manner, you are going to learn more than ir any other an expert may tell you is often not remembered As stated, no intelligent farmer need have a fear of not being able to successfully operate a goo service from, it, he must make up his mind to give
it some good care and attention, and the return will be well worth the time spent on it. to look after that it will have to be considered in a separate article, to appear in a future issue.

THE INSTALMENT PLAN


ment; whereas the easy payment system usually means paying too much for something one does not want, or invest readily and extensively in things that are handy in their way, but which are not really necessary. It things go. The newest thing is not always the best Let others do the experimenting
business to sell goods, but it is the farmer's business to buy only what he puts to a paying use, and on one to sign his name to a contract. It is so easy for one to sign his name to a contract: pay day looks far
off, but it is sure to come, and with it has come in Wany instances a deal of tears and heartbreak.

## THE RESTLESS COUNTRY BOY.

 and should never be a source of worry all healthy boys, may be perfectly happy if only he have plenty of colt may be perfectly happy if only he have plenty of grassand shade and water and liberty. But a boy with forming hands and a contriving mind is restless because he finds stirring in him the possibilities of the infinite. finds himself wrestling with a very live problem when he undertakes to guide his growing boy.
lessness of the country boy. In the first the restlessness of the country boy. In the first place, his
familiarity with country life has dulled his senses its charm. The country life has dulled his senses to son of his daily contact with them, have lecome mere commonplaces. On the other hand, he ses the town
only occasionally, and knows professional the outside. The preacher, to his way of thinking works only half an hour a week: the way of thinking,
but drive behind a hrick-stenping horge little but drive behind a brisk-stepping horse; while the clerk
has a delightful time handline lichit coods sheltered has a delightful time handline light goods. sheltered
from the hot sun and the storm.

$\qquad$
Princess Beatrice
$\qquad$ hero is represented as one who finds n
talents amid farm surroundings, and who
own ouly upen then talents amid farm surroundings, and
own only upon leaving the old home
venture. The country boy feeds on
comes to believe it.
Again, as
Again, as "The Farmer's Advocate "has been re-
minding its readers, our shool shytem does not foster
a love for farm life. However we account for it, our
schools do not encourare our schools do not encourage our boye to make for their "living
from the soil. Our high schools and universities point
the winy the the way to the surgery to the chemist's laboratory, to
the mine, to the pulpit, to the bar, or to the legislative hall, but in how many cases is there a serious chlor made to teach the students the wealth of the sun-
swept valley and meadow, und the satisfaction that comes to mind and heart and fortune by a pursuit of
agriculture, the most ancient as it remains the most honorable of the arts? A fathor need not be surp,rised
to find his son ill disposed to follow in his fuoterens if he allows him to be taught for six hours in the days.
and for five days in the week, that farming is a poor, sordid and unremunerative occupation.
The cure for this restlessiness cannot wronght in a day. A permanent change in conditions is brought
about very slowly, but the farmer must make it his
business to see that the change is being liroughit about. musiness to see that the change is being lirought ahout
In the meantime let himm use all the tact, burn of his
love and good sense, to show his son the addantag's
$\qquad$
and times over than any bank account in the worlt and lime over than any bank account in
Wentworth service of his boys and girls.

SYSTEM OF LAND TENURE THE CURSE OF BRITISH AGRICULTURE
ord, farmer, and laboner-which meant thril separate castes, had broken down in every othee and was breaking down in England. To it was and mainly due the startling rural depopulation, said
Jesse Collings in an address befor Jesse Collings in an address before the British
Association for the Advancement of Science as reported in the London Times. The conclusions at which he had arrived weres. (1) That the policy of placing trade and manufactures above agriculture was a wrong one ; (2) that an amount
of capital (including the personal labor of the cultivating owner and his family) properly in ested in land yielded a far greater return to the community than a similar amount invested in physical strength and an increase of the popula tion were to be reckoned as national assets, agri culture enriched the nation far more than manutrade, resulting from the development the home ture, was larger, more certain, less fickle, and more valuable than the foreign trade. Agricul-
ture must not be regarded simply as ure must not be regarded simply as any other
trade, but as the basis of all trades. the larger branches of agriculture-the raising of tion,", "attle, etc.-and turning to "small cultivaimported some sixty million that we annually
smaller articloc sorth smaller articles of food. such as butter, cheese that, eggs, poultry, fruit, vegetables, etc., and
 land system were what if
Ought to be. We had th
land. and we land, and we had the
men standing idle or only
partially employed partially employed. Many employed in towns would
Hadly return to the vil. uges (for which they wer and reasonable facilities
wire offered to them
"rcupying ownerships,
ought to be the governmight to be the govern-
ing principle of our land
intem insteal at mere incteat of being
ancilitate the in it Torrying
ar of the of the suggested
cheme of small occupy-
iny ownerships, the thor strongly advocated
(1) a better system oi rural education, and (2)
the establishment of co-
operation amonyr the tivators both for the culpurposes of buying and
oi selling. But co-opera wh was the natural outcome of small co-operaships, but was not readily adopted by yeariy t
ants, who were often here to-day and gone
morrow. CORN HARVESTING
dian smethod of caring for the corn cron popular Cana
stalks. In tooth methods hand cunting is dry-cure the
superseded thy the improved corn being Cuperseded hy the improved corn harvester. An interT. Zintheo, an on this subject has been prepared by P .
Deparm mechanics, of the U. S

machinery down to the present, figures out the cost of Sulaws therefrom the following conclusions acre of
Summarizing the comparative returns per acre
husking corn from the field. of cutting and feeding from
shock shock, and of cutting and shredding thy the various \$17.93 for husking thy the net walue of the crop is
tanding lin the field. This is obtained by the stalks
that to Salks and sube of thating corn 55 cents per acre for the
liy allowing 25 conts hushing by hand onder in field where a corn picker as the value of the
does mot give a reasonable
$\qquad$
does mot give a reasonable as
Food, lamd, clothing and imple
course, but a little considera
minimum. Paying in cold
buyer and seller, and waiting
tained by taking the total value of the corn and fodder machine which ior many years has undergone the
hand, cutting with sled harvester and unsthing by hanis The net value of the crop by utilising the fodser the shredded form ( $\$ 24.68$ for hand harversting, $\$ 25.4$,
for harvesting with large machines, nud $\$ 26.45$ with small machines) is obtained by assuming a greater
value of shredded fodder over whole curnstalks of 33 per cent., adding this value of the foxder to the value oi the corn, and subtracting the various costs of cutting, husking and shredding the corn by the various
band and machine methods. Conclusions. - The farmer who would secure the full
value of his corm crop should secure the fodder with as
 by rain or frost. By the use of the proper machinery
or harvesting the corn crop, the farmer may consider anly inerease the net income from his crop over hand
methods of harvesting the ears and wasting the stalks. methods of harvesting the ears and wasting the stalks
and still allow full price for the use of the different and sthe
machines.
There is a limit beyond which it is not proitable tor a farmer to invest in corn-harvesting mathinery, and
the amount of work to be done by the machine each the amount of work to be done by the machine each
year should be carefully considered before a purchase is year should be carefully considered before a purchase is
made.

## LIGHT AGRICULTURAL MOTORS

"Many as are the labor-saving appliances now
be found upon the farm, yet another is about to make its debut upon the prairies of Western Canada, viz,. the light agricultural motor. Farmers
everywhere may be heard discussing the subject. every where may
and, judging from what one hears, something very and, juaging from what one hears, something very
great is expected of but little," writes A. Burness Greig, in "The Farmer's
Advocate and Home Journal," of Winnipeg. While
his ermarks apply specially
to Wecter to Western conditions, they are not without interest
the East as well it good to know well. It
erners are doing " $\rho_{n}$ the surface, there
does not appear to be much of a problen. to solve in
producing a. satisfactory $\underset{\substack{\text { producing a a satisfactory } \\ \text { light agricultural motor: }}}{\text { lit }}$ light agricultural motor:
but, on closer investiga
tion tion, it will be found that
there is more in it than meets the eye. It than ". Although many of
these
sow in mall
tractors arc hiow in use in iractors are
and ouropean
and other countrins
 is in Catsiactory results, it
interestend, that and we are
and when interested, and where a practical demonstration
their capacity
made, for it doos must low that what wot will give
satisfaction in othan
tries tries s. will meet require-
ments in ours When Now, what is a ligh When does it commence to cont agricultural motor?
gory, and when does it cease
user The light agricultural motors t. duced into Canada are a sort of a compromise be tion engine. The aim of the manufacturer would the maximum of power and the mannimum ${ }^{\text {a }}$ weight, irrespective of the adhesion obtainable
upon the evervarying classes and conditions upon the ever-varying classes and conditions of
soil it may have to travel over. What is there
to be pained hy having a very poweriul if the grined by having a very powerfil engine, sort! the full power developed? one from that of the automobile or motor truck
and the sonner this is fullv realized by hoth use and the sooner this is full realized hy hoth user


An English Steam Motor for Farm Work. WOODEN HOOPS FOR SILO PREFERRED. tor " The Farmer's Advocate" ":
 inch elm hoops, which I think are a great advantage have the only wooden-hoop silo in the vicinity where I live, and think they are much ahead of iron whoops There are a.
ron hoops.
ime trying Cime trying to keep their silos tight in summer. quite When several have blown down altor one way or the other good totray as when it was built three years ago. Your
description. given a few weeks. ago. ns to making wirn description. given a few wenks ago, as to making woo ten
hoons is correct. I would say, make wooden hoops I intend torrect. I would say, make wooden hoops


Gasoline Motor Breaking in Manitoba.


Spicy Sam
First－prize A yrshire bunt

## ANIMAL PORTRAITURE

The，photogravures in this issue of typical ani mass of the various breeds of farm stock they rep－
resent should be carefully studied by all readers having any interest in improved stock，for，next to seeing and hanuiling living specimens，these pic－ approved types of the different breeds，the ene most ings in nearly every case representing．first－prize animals and champions at leading exhibitions， rated by either inspection or performance．These
pictures，being all reproduced from photographs pictures，being all reproduced from photographs
from life，are not open to criticism as having
been lo been＂doctored＂．to improve the picture or ex－ aggerate the points and proportions；and as the
camera，as a rule，does not fiater camera，as a rule，does not flatter，but rather
truthfully represents the subject，the halftones made from photographs are seldom equal to the original，though they come as near to represent－ ing a facsimile as can be produoed by any known
method of portraiture．The present age is essen－ tially the era of illustration in periodical litera－ ture，and we feel sure our readers will credit＂The Farmer＇s Advocate＂with being up－to－date in this journalism．

## THE DAIRY

HINTS ON MAKING BUTTER FOR EXHIBITIONS As a number oi our correspondents have re
cently been asking for suggestions on the making of butter for exhibition purposes，we take it that
there is a more or less peneral formation on this question，hence these hints．It is taken for granted that those who read the buttermaking，thus it will not be necessary to of into details．
The furst and most important thing necessary for a buttermaker to bear in mind is the basis or
scale of points used for judging．What does the judge usually consider when he or she starts to
work on 50 to 200 lots of butter at an exhibi－ work on 50 to 200 lots of butter at an exhibi－
tion？The judge must have something definite and clear in his or her mind as to what consti－
tutes a standard of perfection．This standard usually consists of some scale of points，the total making 100 for the sake of convenience．Fven if
the judge uses no set scale，he must have some definite ideal in his mind or his judgment is worthless．The standard of perfection is usually made up of F F
cant quality in butter，the maker must ever bear in half the merit of each lot of butter according to its flavor．Most judges now give preference to the mild，creamy flavor，rather than to the acidy
flavor of former times，hence the buttermakers havor of former times，hence the buttermakers
should not ripen the cream so much as formerly． In no case should the cream have more than
（five－tenths）of one per cent．acid at the time of （five－tenths）of one per cent．acid at the time of
churning．Where no acidimeter is available， churning．Where no acidimeter is available，
churn as soon as the cream thickens and has a
mild，acid flavor．Having cream from perfect milk，or milk with an absence of any fodder or weed flavor，is a great help in getting fine－flavored
butter．The use of a culture or good－flavored starter is also a help．If there is any objection－ able flivor on the milk，the cream should be pas－
teurized when sweet；that is，be heated to $160^{\circ}$ by straining the cream into the churn，thus
removing particles of curd，dried crearn，etc，
that produce＂specks， Salt at the rate of to 1 ounce of salt
por pound of butter
for prints and but for prints and ounce
for boxes．Tuhs and crocks may usually be prints，because as for are chiefly the markets，where higher salting is for The use trade． having sufficient mois－
ture bute present in the salter to dissolve the ing，will twice wally wre－ vent grittiness，which fault under this head aiter＂too high＂＂or
＂too low＂，salting．
The tendency The tendency is for in order that the true teamy flavor of the
bupter may be inorent apparent．

F．for about ten The oblong pound print，wrapped in plain
minutes，or $180^{\circ}$ to parchment butter paper，is the best form． $185^{\circ}$ for two or three print should not be too high and narrow．Which minutes．If a good gives the judge the impression that the butter culture is not avail－canno stand up．The top，bottom，sides and
able，this pasteurized ends should be close and straight，or nearly cream may be cooled Some prifits look as if some one had sat down so to about $50^{\circ}$ and be one edge＇of them．This is caused by a faulty churned without any printer，or not removing the butter properly from ripen ng whatever，of the print，the butter can usually be one side after standing one or without trouble．The 56 －pound box is removed
two hours．Such but－ ter has the nice export．This should be neatly finished on thi creamy flavor liked top．An of ated roller passed over the smoothed
by English people，suriace of the butter，relieves the top of that by English people，ency to a greasy appearance．The box should number of Canadians．be lined with heavy parchment paper．The but Don＇t forget that ter should be ，packed in small lots so that if the
flavor is the flavor is the most im－judge strips the package it will present a close， portant point in ex－tom．As a rule，it is not necessary to put salt
hibition butter． The second point paste，or anything except the parchment paper， is the grain and body on the top of the butter．Tubs，crocks，etc．， oi，the butter．A
judge likes to judge likes，to have
the butter＂iron， nicely，i．e．，when he
pulls a sample out of the print，tub，box or the back of the trier clean－not greasy； should be close in
body and texture，and body and texture，and
not be too hard and brittle，nor yet too
soft．When the butter is of such consistency that it spreads nicely on bread，its grain and texture Temperature of the cream and butter at the time of churning and temperature of the butter at factors governing grain and two most important acter of the fat，which is influenced the char－ and her feed，is another factor．Method of work－ ing is another；some butter is spoiled by over－
working．Work sufficiently to Working．Work sufficiently to make the body
firm，the color even，and the appearance but，avoid the two extremes of＂over＂or＂under，＂
working the＂oren working．The＇＂end－point＇＂is something which cannot be described and is learned only by experi－
ence．Working sufficiently to mix the then allowing the butter to stand for one to three， hours before finishing the working，is a much safer plan than to depend upon one working．Once
working is almost sure to less mottled． in butter，it vary with regard to color and salt tions which is very difficult to give general direc－ on the side of light color and light salting，than tember it is hardly necessary to use any of soloring After a heavy frost or two a small amount of
vegetable butter color added to the cream vegetable butter color added to the cream just
before churning is advisable in order to obtain the
＂June－grass tint，＂ ＂June－grass tint．＂The main point is to the combinationd windfall apples make an excellent the color uniform．Mot main point is to have combination．If the swine can be given the
are always scored down by a compe waves，etc．，they orchard till the middle of september are always scored down by a competent judge，as they will clean up the wormy，defective specimens
this indicates faulty workmanship．The prevent ives are ：washing out the buttermilk with wator fater drops．ground clean for the more valuable or brine，even distribution of fine salt and work－
ing twice．If these points are noted there is Fvery farmer in Canada needs＂The Farmer．
little danger of mottled butter．．White specks．
 （3）


Colantha 4th's Johanna
Holstein cow, 8 years old. The world's champion butter cow. Property of W. J.
PICK THE BEST COWS AND MOST LIKELY CALVES.
Editor The Farer Advorat
We have been keeping milk records for three years. started in order to find out what each cow was doing,
and to dispose of the poor ones. Our method of kee?ing the reconds is to weigh each cow's' milk, three days in the month, and take a sample from the six milkgiven from 4,500 to as high as $7,230 \mathrm{lbs}$. milk in 10 months, and made from 250 to as high as 320 lbs. butter in the same time. Milk records are certainly a or by them he can tell which is the most profitable ou want which ones are not paying for their keep. If the most likely to develop into profitable dairy cows. Our cows are fed in winter twice per day, also watered morning and evening in the b
Guernsey and Guernsey grade.
$\begin{array}{ll}\text { Pictou Co., N. S. } & \text { D. G. McKAY \& Sors. }\end{array}$

## WIDE - AWAKE DAIRYMEN

Editor "The Farmer's Advocate": the last three years. I take records once and sometimes twice per week by the use of a forty-
pounds steelyard, which I keep in my barn. As know the weight of my pails, it takes but very httle of my time to weigh. I have a little passher with her milk. My cows are graded Shorthorns. Before I commenced keeping records, I calculated
so much to the cow per month, say, five dollans, for I heard it often mentioned that was about the average; but when I kept records I found some of my cows were giving twenty pounds, while others were giving as low as nine pounds at a
milking. Now, I consider ii a cow does not give fifteen pounds of rich milk, it is better to let calves on her for veal, and get rid of her as soon
as I can. I may say that I find in this part as I can. I may say that I find in this part
that the best dairymen are men who keep a close record of the feed they feed their cows and the returns they get from each individual cow, and value a good cow very much above an inferior

PROGRESS AND BENEFIT OF COW-TESTING. The interest taken by the dairy farmers in the
work of the cow-testing associations organized by the Branch of the Dairy and Cold-storage Commissioner, Ottawa, is steadily increasing. Evi-
dence of this is seen in two or three ways. The dence of this is seen in two or three ways. The
milk-record sheets, being tabulated daily, show a larger number of cows whose milk is being weighed and sampled six times a month, and, bet-
ter still, there is an increase in the yield. That ter still, there is an increase in the yield. That is
to say that the second and third tests in the various localities show a marked improvement on the first. This will have been noticed in the summaries of the tests published from time to time.
The Dominion officials are doing valuable educaThe Dominion officials are doing valuable educa-
tional work on their rounds, for the custom is increasing of farmers dropping in while the testing is in progress to ask many questions about the hirds, feeding, churning at home, and in fact on very phase of dairy work.
Records to hand from the Pacilic Coast show the average yield of 232 cows in the Chilliwack, 13. C. Cow-testing Association for June to be
800 lbs. milk, 3.6 test, 29.1 lbs. fat. There are our dairy herds if provision w
or soiling crops, ensilage man to get the best results as the milkrecord system. One can so easily detect the results of any
change in feed or
otherwise and otherwise, and rem-
edy it, perhaps not so much on the whole herd, but individually, for 1 have found it pays well to cater to the likes and dislikes
cows. of
The
different fed to one cow ration itably might be far Some claim ${ }^{\text {another. }}$ io be a cow tell how much a cow gives merely
by guess, but to me they are far out. It is very easy to re-
member the two or member the two or flow when the cow is giving, say, 40 lhs. per day, and forget
all the rest of the
several cows giving year when she has dropped down to less than half
over $1,200 \mathrm{lbs}$. milk that amount. I once bought a cow for a good price over 1,200 lbs. milk that amount. I once bought a cow for a good price
in the 30 days.
that was noted as a great milker, and she started The importance of succulent feed is well illustrated by the
yield of a herd in yield of a herd in
the ${ }^{\text {St. }}$ Prosper, Que,., association. On
June 5th the yiel June 5th the yield
of 11 cows was 286 pounds of milk; they had been on dry feed, and pastures were
backward. On June
 cows gave 371 los.
mik. At a moderate estimate, that
herd could easily $\begin{array}{cc:c}\text { herd could } & \text { easily } \\ \text { have given } & 1,200\end{array}$ have given milk dur-
lis. more mile ding the mopth, if
ing succulent feet had
been available, What been available., What
applies here applies
to hundreds of other to hundreds of other
herds. There 'would be an enormous in-
crease in the general flow of milk and a vast improvement in out to lead, and did so for about two months, and finished second to last, with a small two-yearold behind her. There is no other correct way
but to keep a record of milk, both as to quanbut to keep a record of milk, both as to quan-
tity and quality. Form and appearance count for a great deal, but often fail, but performance always counts.
ing, but so it takes some time to do the figurwill enjoy, and, indeed, should be anxious to get at and work out his operations on business principles. Dairying for profit, like many other
things, lies behind so much fine figuring that the mings, lies behind so much fine figuring that the ing their work a drudgery in place of a pleasure
Central Experimental Farm, Otta, D. GRA
MILK AND BUTTER MORE THAW DOUBLED. Editor "The Farmer's Advocate"
I have been keeping individual nifle records of
my cows for about six years. I have the scales in the stable near the cows, and a record blank and pencil beside them; and when we finish milking
 once per month, or sometimes only once in two ing's and evening's mike samples of both morntest them with the Babcock of every cow, and and in that way I know exactly what every cow in my herd is doing, and any cow that is not
giving satisfactory returns, after a fair trial is sent to the butcher. I raise nearly all of my own cows. I keep the best pure-bred Holstein bull I
can get, and raise the heifer calves from my best can get, and raise the heifer calles from my best tain amount of weeding out of inferior cows every year. I find, however, I have this advantage:
have more than doubled my milk and butter have more than doubled my milk and butter out-
put per cow since I commenced the weighing and put per cow since I
testing of the riilk. This is somewhat due to better feeding and attention, but more to weeding out the inferior cows.
ing was that for starting the weighing and testing was that my dairy, as a whole, was not pay-
ing me, and $I$ wanted, if possible, to find out where the trouble was. I believe that, even with the person that is taking the best of care of his
cows, weighing and testing will pay handsomely, as inferior cows will work into any herd, and I know of no other way of successfully fineistg them
than with the scales and Babcock test. I had in than with the scales and Babcock test. I had in
my herd at one time two cows, about the same size, and that were getting about the same amount of feed, and were giving about the same amount of milk; but, upon testing, I found one cow giv-
ing 5 per cent. milk, and the other 8 per cent. ing 5 per cent. milk, and the other 3 per cent.
The first I was keeping at a profit and the other at a loss, and it was not long after thoroughly testing them that the 3 -per-cent. cow went to the butcher. JOS. R. TAYLOR

Prof. F. R. Marshall, B.S.A., a Canadian, and graduate of the Ontario Agricultural College, who has occupied positions at the Iowa and Texas Agricultural Colleges, has been appointed Professor of Animal Husbandry at the Ohio College of Agriculture, in place of
Dr. C. W. Gay, who resigned to go to the Pennsylvania Veterinary College.

## THE GREAT MILKER PETERED OUT.

## Every farmer in Canada needs "The Farmer's <br> Editor '"The Farmer's Advocate <br> Advocate."



6\% Why Chancellor of Ballyboley
Gallow ay bull: arite champion, Royal Show, 19o7. Shown by J. Cunningham.

## THE FARMER'S ADVOCATE

OVER A MILLION FOR MILK. From small beginnings institutions grow up attention like more meteoric concerns of less permanent part and parcel to the community. They vecome for granted. Our cheese factories and are 1aken are of this character. They have gone quictly Canada without management has been a credit to acteristic of so many town ind coddling charbecome so accustomed to their presence that they patrons. Just part they play in the finances patrons. Just as an illustration, take the Har rietsville, Ont., cheese and butter factory. In quarter of a century, for the former product
alone, it has distributed over a million dollars to say nothing of immense sums distributed hy which it has stimulate bacon-hog rearing, ett: in the spring of 1867 by Robert ${ }^{\text {Facey }}$ was built other men, who ran it for about 15 yey and Mr. Facey bought the others out and conducted it as a personal enterprise until 1897. Upon his say grew up. in the factory who we migh maker, assumed the establishment. The building is well built and splendidly equipped througinont a modern
The efficient Secretary, patrons at the annual meeting, weighs the by the makes out invoices, and the money is drawn o work, about 1897 a do away with Sunday was put in, and Saturday buttermaking plant through the separators, the night's milk is ru Sunday and made into butter early the following butter a supply and which has patrons secure their cellent satisfaction. Butter is also made in the
winter season vinter season instead of cheese. Mr. Kunz has
tabulated the factory returns for the past 26 years as follows

Cheese statement

|  |  |  |  | $\begin{aligned} & \stackrel{8}{e g} \\ & \frac{4}{c} \\ & \vdots \\ & 8= \\ & \vdots \\ & 0 \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1881 | 2,987.827 | 292,369 | 10.64 | 10.21 | \$31,796.84 |
| $\begin{aligned} & 1882 \\ & 1883 \end{aligned}$ | 2,42w9\% 80 2,724249 | 236,463 | 10.26 | 10.81 | \$5,579.20 |
| 1884 | 2,724,249 | 266,410 320.568 | 10.22 | 10.98 | 29,278.11 |
| 1885 | 3,235,899 | 311,026 | 10.40 | 10. | 35,237.03 |
| 1886 | 3,755,054 | 360,971 | 10.4 .9 | ${ }_{9} 8.60$ | 26,767.89 |
| 18 | 3,749,920 | 353,077 | 10.62 | 10.78 | 34,0829. 21 |
| 1888 | 3,860,168 | 369,660 | . 44 | 9.70 | 25,762.20 |
| 18 | 3.591,770 | 346,869 | 10.35 | 9.28 | 32,170.63 |
| 1890 | 4,548,908 | 432,836 | 10.50 | 9.7 | 39,213.49 |
| 1892 | 5,293,413 | 517,673 | 10.52 |  | 49.111 .75 |
| 1893 | 5,327,432 | 495,390 | 10.75 | 9. | 47.949 .76 49.35164 |
| 1894 | 5,323,073 | 498,075 | 19.68 | 9.84 | 48,877.32 |
| 1895 | 384,787, | 398,530 | 11.00 | T. 8 | 31,289 54 |
| 1896 | 4,667,849 | 441,273 | 10.57 | 8.30 | 36,597.97 |
| 1897 | 5,335,00 | 499,090 | 10.68 | 8.36 | 41,704.36 |
| 1899 | 4,528,688 | 43 | 11 | 7.96 | 34,403.88 |
| 1900 | 4,696,135 | 422,14 | 11.12 | 9.93 9.94 |  |
| 1901 | 4,708,221 | 4.27,524 | 11.1 |  | 41,945.30 |
| 1902 | 5,317,253 | 497.629 | 10.68 | 10.34 | 51.468 |
| 1903 | 5,742,207 | 544,514 | 10.54 | 10.43 | 56,741.98 |
| 1904 | 4,119,223 | 381,090 | 10.80 |  | , |
| 1905 | 4,913,546 | 460,856 | 10.68 |  | 19,164 |
| 190 | 5,050,430 | 460,968 | 10.8 |  |  |

The statement for 1907 for cheese $\$ 1,032,42$ 1.20
Lbs. milk. Lbs. cheese
Pounds milk to pound cheese price, 11.47 cents Followin
since 1897

RANGE FROM 3,000 TO 9,000 POUNDS OF MILK PER COW.
ce a month (at weighing the milk from each cow once a month (at the same time each month), and in their milk, just so we think we are getting a fair average. We have been doing this for the past three seasons, and we find it very interesting to have an idea what each cow has done. Our down to 3,000 pounds. We from 9,000 pounds lieved there was such a difference had we no weighed it. It does not take more than a minute


Border Leicester Ram

## irst in class, Royal Show, 1907. Shown by Robert

daily to weigh and mark each cou's mill half a minute each time. We have sem milk-onewe started to weigh our milk, that we had quite a few cows which were not paying their way, and We have been getting rid of these. (ur cows are
averaging up a good deal better now than when
we starter we started to weigh their milk. ${ }^{\text {a }}$ I think milk
records are aren records are a benefit to a man, no matter how
well he is caring for his herd well he is caring for his herd. I have been very
much interested in what other people's cows have been doing. I think "The Farmer's cows have is getting better all the time. We would not like
to do without it
 I anark Co., On
flesh and milk supply, and I soon noticed by t
records that we were well repaid for the little records that we were well repaid for the little
work, and our cows looked much healthier and Work, and our cows looked much healthier and b
in every respect. Three weeks after I began using
sheets sheets on the cows I cut the feed ration down
third, notwithstanding third, notwithstanding that the cows kept doing bet,
and as we had to buy the feed at about a and as we had to buy the feed a
half a pound it was a big item.
Some farmers may say that thero is no money that to them. I would say, don't tell anybody that if you wave to sell your cows, for they will know that they would soon pay for that treatment and when Mr. Mc Vicar says, they lose from 10 to 15 lbs . daily.
you will readily see whether it will pay or not. If it loes not pay to give your not pay to keep them at all REUBEN SEARE
Washington

POULTRY.
STAMPED EGGS.
The question of stamped eggs having been raised in rom experion in Danish egr trado in Solw er not be inappropriate at this season. A fow years ago my brother accepted an agency for Scotland for a large firm of Danish exporters, and the first to introduce the stamped egg into Scotland. As usual, when a new de-
parture is contemplated, the conservative ideas of many grocers are difficult to overcome, and, consequently, unil the objection of having a stamped egg on the breakast table could be surmountor, it was certainly uphill work making a connection. After a little, when it was
seen that this was no great fault, people began to realize that the stamp was really the best possible guarantce that the egg was fresh and good, and now I can safely assert that many people use stamped eggs
all the year round. in preference even to country eggs, as the quality is excellent, the size unapproachable, and the supply regular. They certainly have a splendid
system of working in Denmark: Government system of working in Denmark: Government, farmers and
shippers all combining in The Government gives the farmer every encouragement and help. The farmer trics to perfect and produce a treed of hens from which the best results can be obthe very best price for his eggs, and thus ensure his best attention. There are branches scattered throughout the country where the farmer brings his produce
weekly. The exgs are all carefully weiched and Weekly. The egrss are all carefully weighed and ex-
amined. packed in sizes according to weicht, and all tad CgEs rejected. From these centers they are sent on to arriving ing being shipped from there on Thursday, and arriving in Scotland on Mondlay: something like a fortuntil placed on the market. from the time they are laid Now. why shouldn't this system of huying wholesale hy weight be general ? A person selling a hundred cood eggs would certainly erceiven a muling a hundred
than one selting a puice
thundred indiferent eges whereas this indiscriminate selling hy the doren. and receiving this
one


Shropshire Yearling Rams
Butter statement

## 



AUGUST 29, 1907
the policy of paying a good price for a grow articl
then the farmer and his gudewife will awake to the fact that there is more in this trade than mercly househol
expenses, and the price of a new bonnet occasionally.

THE MARKING OF EGGS
ditor "The Farmer's Advocate
I fully agree with the statements of some of (6) ing eggs, but, to my mind, the difficulty arises as ing up a high-class trade in strictly new-laid eggs, thought of stamping each egg. This is being done by a gentleman in Toronto who has had long experience. This method has one advantage, it advertises the producer. A guest in the home of
the purchaser sees the stanip on the egg, and the purchaser sees che stanp on the egg, and upply, of a place where the eggs are above sus
picion, and new trade follows. But, on the other hand, in these days, when advertising in such ways has become obnoxious to some people,
reaching even to the breakfast table, other plans

In selling my eggs, I put them up in cardboard oxes containing one dozen. Each egg is, after testing, wrapped in tissue paper, just as oranges bears the wording: "Guaranteed strictly fresh The Coombe Poultry Farm, Hespeler, Ont."
It perhaps costs a little more this way, but the aper I get free from our printer's waste-box, and always get two or three cents per dozen more for he tasty little boxes. There is the advertising, and the guarantee at the same time. In addition have the name of our poultry farm printed or

These eggs are guaranteed strictly fresh. anything is wrong with the contents, state batch, number, date, and place of purchase, and advise s at once.
uf. Course, the boxes are sealed before leaving us. This plan works well. The entire extra
cost, including cost of boxes, is not more than
one cent per dozen,
GEO. W. TEBBS. Waterloo Co., Ont

THE WORLD'S POULTRY PRODUCTION
[Edward Brown, F.L.S., before the Second Nationa
Poultry Conference, University College, Reading, Eng.
My contribution to the papers at the Second National Poultry Conference is largely statistical, value. Unfortunately, it is by no means so complete as was anticipated, due to the fact that in comparatively few cases is any attempt made by the Government authorities to estimate, even ap-
proximately, the production, and that so many countries do not export eggs and poultry, consuming all the produce at home. This is especial$y$ the case in the smaller European and American
States, and in Asia. The British Colonies in Africa do not meet their own requirements, and mport to make up the deficiency between demand and home supply, whilst the Antipodean Colonies poultry industry has been undeveloped, and not beyond the needs of the resident population. But such facts as are available are here presented, and may be that in the future, when increased proent the importance of this industry, they may form a basis for comparisons.
One of the objects with which this inquiry was ttempted was to see whether it the annual cro of eggs and poultry, but the result has been indicate that the time for that has not yet ar-
rived, and nothing more than a very speculative rived, and nothing more than a very speculative
approximation can be attempted. From only approximation can be attempted. Feceived in this
three countries have returns been res
direction, namely France, Canada and the United direction, namely, France, Canada and the United
States. In 1903 I prepared for the Royal ComStates. In 19031 prepared for the Royal Com-
mission on Supply of Food and Raw Material in Time of War, an estimate as to poultry and egg production in the United Kingdoon, relating to the year 1902, and I have brought these up to date,
giving the figures as an estimate for our own

Estimated pronuction
$\begin{array}{ll}I^{\text {tinited }} \text { Kingdom } & \text { Year. } \\ 1906 & \text { Eggs and Poultry } \\ £ 11,500,000\end{array}$

Cnited States ........ $1899 \quad 58,922,900$
The Agent-General for South Australia informs
that the estimated number oi poultry pro-
II. that the estimated number oi poultry pro-
uced in that Colony is $1,500,000$, but the value

THE FARMER'S ADVOCATE.
able for Great Britain were published more than twenty years ago. Poultry are not included in are in those of Ireland. Considering the enorcountry since 1885, the above figures are altogether misleading, and should, in respect to ordinary fowls, be increased by 50 per cent., at twenty-four millions. When we come to the export trade of various
countries, we are on surer ground, although I had countries, we are on surer ground, although I had
hoped to have made the returns much more comhoped to have made the returns much received from plete, but repies have been able, by courtesy.
several countries. I have been
of representatives of our Colonies, and the Con-suls-General of foreign countries in London, and by British Consuls abroad, to give the actual
figures of exports to Great Britain. Our trade and navigation returns credit the last country through which produce passes as that from which the supplies are received. For instance, accord-
ing to returns supplied to me by the Board of Agriculture, but not yet published, in 1906 we received only 1,000 eggs from Italy, whereas we actually received something like $150,000,000$.
These are credited to Belgium hand, Germany is shown as sending us eggs to the value of $£ 957,905$, whereas the actual imports from that country were in value £4,500. The great bulk of the stated German supplies
come from South Russia and Austro-Hungary. EXPORT TRADE OF VARIOUS COUNTRIES.


Colston Lass 13th.








| Country | Year. | Total export values in Eggs. | Total export <br> values in <br> Poultry. | Total values, poultry exported |
| :---: | :---: | :---: | :---: | :---: |
| Europe- |  | ء | £ | e |
| United Kingdom | 1906 |  | 28,938 | 28,938 |
| Austria | 1906 | 3,760,468 | 620,415 | 4,380,881 |
| Belgium | 1905 | 472,716 | 35,153 | 507,869 |
| Bulgaria | 1905 | 364,507 |  | 364,50; |
| Denmark ....... | 1905 | 1,868,082 |  | 1,363,0 32 |
| France | 1906 | 559,000 | 598,300 | 1,157,500 |
| Germany | 1905 | 67,700 | 61,480 | 129,180 |
| Hungary | 1906 | 2,960,000 | 2,573,642 | 5,593,642 |
| Italy .............. | 1905 | 2,253,710 | 547,253 | 2,800,963 |
| Netherlands .... | 1905 | 150,000 |  | 150,000 |
| Portugal | 1906 | 60;491 |  | 60,491 |
| Russia | 1906 | 5,615,200 | 300,030 | 5,915,200 |
| Servia | 1903 | 320,858 | 78,097 | 396,455 |
| Spain | 1905 | 10,035 |  | 10,085 |
| Sweden ... | 1906 |  |  | 54,783 |
| Turkey | 1906 |  |  | 9,200 |
| Africa- |  |  |  |  |
| Cape Colony | 1908 | 48,282 | 628 | 43,910 |
| Egypt | 1908 | 108,815 |  | 108,818 |
| Morocco | 1906 | 244,648 |  | 244,648 |
| America- |  |  |  |  |
| Canada | 1905 | 148,505 | 13,764 | 162,269 |
| United States. | 1906 | 216,385 | 291,042 | 507,427 |
| Australia |  |  |  |  |
| South Australia | 1906 | 121,000 |  | 121,000 |
| New Zealand ... | 1906 | 268 | 6,662 | 6,920 |

From this table, it will be seen that of the above countries the total egg and poultry export


Probably from these figures some faint notion nay be obtained as to the world's production in eggs and poultry, though it is a pure estimate,
and one which it would be impossible to prove. Still, it is desirable to make the 'attempt, and submit the following table for what it is worth aking into account the low valuee in many coup mption ESTIMATED VALUE OF EGGG AND POULTRY


A GREAT ADVERTISING MEDIUM. I think your paper a good advertising medium s my advertisement in your poultry columm It may surprise those who have not studied
It will be seen from the above that the
tatistics are most imcomplete, and few deductions can be made therefrom. It would, perhaps, be a
guide if we knew the respective rumber of fowls in the different countries, for much more informacountries make a census of their stock of poultry, but as I did not set out to attempt an enumerahon on those lines, 1 am not in a position to give manner. However, such as are available are giv


Polegate Dorcas 2nd
erkshire sow. First and champion, Royal Show

THE FARMER'S ADVOCATE

SHALL WE STAMP THE EGGS ? The question of stamping eggs is a very im portant one. I have been in favor of it for many retailer of eggs and butter, when I knew larges England) used to have the best quality of in stamped with his name, as a guarantee of fresh ness.
These eggs were sold at $1 \frac{1}{2} d$., or 3 cents each while the others were sold at 1c. to 2c. each, and I know that there was a great demand for the
stamped eggs. tamped eggs.
It is advisa

RECORD OF WINTER EGG-LAYING AT MACDON ALD COLLEG
It would be hard to find a more completely equipped plant than the one at Macdonald College under the charge of Mr. F. C. Elford. Unlike the equipment is to serve a double purpose-commer cial poultry-keeping and instructional poultry husbandry. The colony-houses, the colony brooder houses, the fattening-house, the incubator rooms
the brooder-house, the egg-judging and feed rooms serve this double purpose, while the lecture-room, the illustration-breeds poultry house, the classthe illustration-breeds poultry house, the class-
room, and the offices, etc.. are special equipment


Prince and Princess of Wales and Party, at the Highland Show, Edinburgh.
as they city people think the eggs are not fresh for the instruction of students. The colony-hous known any housewife to "kick ". I have never delible stamp on the eggs, but rather express some satisfaction at seeing the name stamped on the egg, knowing that the name would not be As most people put the small end of the egis in the egg-cup, it would be advisable to stamp the small end, then the "decoration" would be out of sight.
The s
not more than should be of rubber and oval shaped letters, something like this: (T. BROWN.) Such a stamp can be bought, made to order, for 25 c too long to be put on the half-inch stames are would have to have a larger stamp.
Mr. Henry wants to know how to Mr. Henry wants to know how to bring the
stamping of eggs about. I would say, stamp your
system, established last year, has given good re sults. The birds wintered over in excellent con egg-laying record will show. No attempt was made to heat these houses artificially; in fact the temperature within the houses fell frequently during the coldest spells, to 18 degrees below zero
The results may be attributed to 1. Proper maturing of the pullets before winter set in. good winter-laying record pullets from birds with 3. Careful management and feeding.

The record of egg-laying for six months, ending of keeping is very interesting. It shows the value The 240 laying hens produced, from December or each hen 18,173 eggs, an average of 75 eggs


Armour's Team
the Royal Show and the International Horse show Olympia, I ondon
eggs with your name and call your customers' at- 1,487 ; January, 2,441 ; February, 2599 . Wand the eggs stands as a guarantee of freshness ; of the records of each hen shows that some a study should any of the eggs, perchance, be not fresh, hens of this flock are simply "eating their heads you will gladly exchange them, freely, for fresh off,", while others are money-makers. For ex-
ones.
ample, the half that did the best produced 12,796 Yeanseastomuns 'witl atways look for eggs with your namey if your give satisfaction, or will rejetges: writh your' name if they find them un-
satisfactory.
RLUUBEN SEARE. Washingto
eggs, an average of 106 eggs each; while the other half laid only 5,377 eggs, an average of 44 each. This variation is not due to difference in
breeds, for the records tell us that the variation breeds, for the records tell us that the variation
is even greater in individual col
cupied by a single breed. The best ten birds in age breed, for example, laid 1,140 eggs, an aversame breed laid only 142 eggs each, an average of 14 eggs each. To obtain the records of the individual hens, Mr. Elford employed simple effective trapnests. The wire entrance is arranged so that the cannot get out without the aid of the poultrywhen she is released the number of leg-band, and marked on the egg. The eggs are taken to the
office, and each hen is credited with her perform office, and each hen is credited with her perform-
ance record on a special sheet. The importance of the trap The importance of the trap-nest record in com-
mercial poultry work lies in the fact that mercial poultry work lies in the fact that a poul-
tryman can readily distinguish the poor layers from the good layers and get rid of those that
do not pay for their feed. More than this do not pay for their feed. More than this, he is
able to select for the incubators eggs that able to select for the incubators eggs that are
laid by the best-laying hens, and thus gradually breed up a paying egg-laying strain About November 1st Mr. Elford will discard all
hens that have proven to be poor layers hens that have proven to be poor layers, while ing. From such hens wili be distributed eggs and stock to Quebec farmers at very reasonable prices.
W. LOCHHEAD.

MUSLIN CURTAINS FOR WINDOWS
In view of the present discussion on muslin curtain ventilation
stables, the follo an article by A. B. Smith, of British Columbia, be pertinent It will secate, of thmmpeg, uil has substituted cotton for glass in all his window space. Most poultrymen nowadays use part glass and part cotton or musin, finding that muslin " I I used glass windows at first in houses after experimenting, took them out and fut in cotton on hinged frames, and find it much inore satisfactory, as air is better in houses aiter being
closed all night, and there is practically no frost cosed all night, and there is practically no frost
melting and running down each day to freeze up the floor at night and keep it damp, and gradually spread till the whole is frozen solid, instead of
being a bed of loose sand in which the fowls could dust at any time. With the double rowls could house, the dry carth forms a buffer between the
cold above and heat from the birds practically no frost forms on binside of roof at ." Cottons are kept open every day from sun rise to about an hour before sunset in the coldest weather, shutting early to avoid house getting roost. I also placed a transom in top to ery which is open more or less except in the quirement snaps. To my mind, the greatest reat mid-day and very sharp at night is pleasant equalize the tho temperatures as nearly as try ble in order to get good results. I had White weather last winter when we hases in the coldest degrees below zero, and no combs frosted as firty ways fed in the open sheds. A large part of the to a good depth on the floor, so they had to spend a good deal of time outside the roosting If building again, Mr. Smith thinks a be well to make one cotton shutter in each house inght inches and hinge at the top to down about n spring and fall nights when not warm enough to open up a whole window, and, as it often is,

## APIARY.

## FALL MANAGEMENT OF bEES

- 

Fall management consists of preparing our in many ways it is laying the foundation for
future success The work of the fall season may be lessened to A great extent by the system of managing during tember make an examination of each colony, to find out its condition in regard to its strength of it has a goord laying queren, and well as to know condition. If sufficient bees and is in a healthy stroth frames are found, it will be safe to pusuch colonies into winter quarters ; if less than
this amount of bees, it will be better to
with anto with a another weak one and have a good colomy. To do this, remove about half of the lightes combs from colonies to be united, and some time
atterwards. on a cool evening, put two weak ones
together. by placing the combs of one with


CO-OPERATIVE FRUIT-SHIPPING Mr. D. Johnson, President of the Forest, Ont.
Fruit-growers and Forwanding Associ ition, writes us Your fover and by-laws to handing publishing of our constituti. to grant. " The fruit crop here promises to be pleqsed We expect to have the best and largest apple crop that
we have yet had. By-law No. 18 has accomplish this. The spraying of our orchards year after year has


(b) 2 nj and 4th Layer Fig. 1.
Diagonal
2-2 Pack.
3) Tiers

Layers- 88 Apples
produced a much more vigorous growth than formerly We have decided this year to sell f.o.b. Forest. This we think, is much the best way for an assoclation to how much they are going to get. We expect no trouble in selling in this way, as our brand is now well known
This is bringing us letters from dealers in all parts pressing us to put a price on our pack, and to allow them a chance. Yesterday mail brought us letters ask-
ing for over 100,000 bbls. in all. but as our pack ing for over 100,000 bbls. in all, but as our pack
will not be 10,000 bbls. we will not be able to supply the demand. armly established; their fruit is sought after in all mar kets, which must be a painful fact to the fruit-growers
and farmers who laughed at them in the days of their nfancy. By-laws from 7 to 15 apply only to orchards that are not packed in Central packing-house. Thes
are very seldom made use of.
D. JOHNSON. Lambton Co., Ont.
constitution.

1. This association of fruit-growers shall be known ciation."
2 . The object of the association is the better pro duction and sale of fruit grown by its members. ciation shall be on the first Monday in December in each year. Special meetings may be held at any time upon the call of the President hy written notice.
2. At the annual meeting the directors of the asso4. At the annual meeting the directors of the asso-
ciation shall be elected.

ig. 3.-How or Star
3. At any meeting of the directors a two-thirds fepresentation of the directors s
4. The officers of the association shall President, Vice-President and Secretary-Treasurer
5. Immediately after the 7. Immediately after the annual meeting and the
election of directors, it shall be the duty of the direct ors to elect officers as named in by-law six, the Pre ;i dent and vice-President to be chosen from the direct 8. The President, or in his absence the Vice-Presi dent, shall preside at all meetings of the association.
In the absence of both, a presiding officer shatl chosen from those present. ${ }^{\text {a }}$ presiaing oficer sial 9. The Secretary-Treasurer shall keep a record of
the proceedings of $a^{\prime \prime}$ neetings of the directors and the association. He shall also keep a record of all the 10. Any fruit-grower within a radius of eight mils, Forest shall be eligible to become a member by a two-thirds vote of the directors of the association. any regular or special meeting upon a two-thirds vote of the directors.
6. The Board of Directors shall meet semi-monthly or monthly, or at the call of the President: such meet
ngs not later than July 1st 2. It shall be the duty of all officers to attend regular or special meetings of the association, and holl
offle until their successors shall be olected 3ce until their successors shall be clected.
7. When a vacancy shall happen by death or resie ext regular or special meeting.
ear the President shall render a statemention in ea-h ness of the season in full.
8. Each and every member of the association shall packing-house or shipping point. 6. An inspector or manager of the assoriation shal
he appointed hy the directors, to supervise the work of grating and packing of the fruit of the association,
the salary of the said inspector to be determined at he salary of the said 1 .
the time of appointment.
the time of appointment.
9. The manager shall give personal instructions in
orchards to every shipper shiping through th

3 tier
144 (L) Grade No. 1 N. SPY

CHOICE CANADIAN APPLES

## PaCED By

J○IN J○NJS BRIGHTON, ONT
(27)

## Suggestion for Marking Boxes

association, how to grade and mark their fruit accord
ing to the Fruit Marks Act 8. That he will see to the ordering of and secorne of cars, and will obtain whatever necessary refrigerator cars, which he sees are properly iced
9. He shall keer
the salesman, and shall constant communication with them to the members of the associontiond communicate 10. He shall see to the makin $f_{f}$ up of car lots, and notifying members when to pack and deliver fruit at
packing-house or shipping 11. He shall keep a record of name and grade of fruit of each shipper in each car, and forwand a copy to purchaser.
12 . He shall also inspect a certain number of each Shipper's barrels in each car, and immediately before
shipment, in order to ascertain if the Fruit Marks Act has been carried out, and if he finds that any shipper
has intentionally disobeyed the Frit has intentionally disoheyed the Fruit Marks Act he
shall be refused acceptance of fruit and herd and held responsible for space in car.
13. It is agreed that shipper shall be responsible
for space ordered in car whether he fills it or not. for space ordered in car whether he fills it or not.
1t. If the inspector disagrees with shippers regaril 14. If the inspector disagrees with shippers regan
ing grade apples, for the settlement of such disasrey
ment he shall choose one director, the stiver ment he shall choose one director, the stipper one
director, and both jointly any disinterested person, who.
shall decide, basing their decision on the Friuit warks leaves, such charges for icing cors to be collected hy a paid tevefore car
barrel the car carth barrel the car contains.
16. Fach and every member shall have the right to give awny such fruit of his own raising ns he may
elect, Whe he shall mot make salce of fruit outsidn. thie
association. except windfalls and cull grades, or association. except windfalls and cull grades, or any
fruit that may not he cccepted by the association Any
member so dloing shall pay into the association tracurr member so thoing shall pay into the association treasury
the sum of 50 cents per barrel for all fruit so solit.
cucepting grates aforesaid.
17. Whenever in the opinion of the directors it is
impossible for the association to receive at its house all fruit grown by its members, they may permit individual members to grade and pack the sam.. for
shipment through the association, such gradin packing to be subject to the inspection of the $I_{n s i}$ and appointed by the association.
18. All mem ers of the association shall spray , thair 18. All mem ers of the association shall spray their
orchards at least four times, and as often beyond that hs they deem proper

(a) 18t, 3rd and 5th Layers.

(b) and and 4th Layers. Fig. 2.
$3-2$ Pack
11 Tiers $\quad 5$ Layers 188 Apples
19. No fruit-grower shall be admitted as a member
oi the association except by a two-thirds vote of the

PICKING AND PACKING OF APPLES Presuming that the frult has been well grown the next important operation is the picking. The time of picking does not receive sufficient atten-
tion from the hands of all Canadian apple-growers. Just when to pick, has been the subject of Agriculture of the United States, and the results do not carry out all the popular opinions upon greener the apple is picked the longer it will the Such did not prove to be the case.
The best time to pick an apple, either for stor ing or for shipping, is when it has reached nearly its full color, and before the seeds have assumed
a dark-brown color. Apples picked before or after this stage were found to picked before or
quickly than those quickly than those picked just before full maticular tree do reached. The apples on any par-
tipen all at the one time the case of carly' apples, the unevenness of their ripening is very marked. With some varieties the ripening period extends over several weeks. With
all varieties, and more particulaly all varieties, and more particularly with early
varieties, it is alsolutely necessary to to over tree several times to secure the fruit at the proper period of maturity. Winter varieties, especially in the north, may all be picked at one picking.

that a few, at least, are matured before the bat
nce of the fruit is ready, and it is these ow matured apples that cause trouble later in thy
winter. Had these overmatured apples-usually rost and marketed early in the season thay would have brought the very highest prices. Leaving
them in the general stock, they deteriorate very rapidly, and if they are fit to repack at all in ,ad in the barrel atterwards on the trying journey o market. In the southern portion of Ontario
early all the winter varieties should be picked ver at least twice This will halp to materially It is assumed that only hand-picking will be be
considered ; even for canning purposes, it pays well to pick by hand, though it is a common prac-
tice. I am sorry to say, for fruit-growers selling trees and pick them from the ground
Beiore the operation of packing is commenced the ground under the tree should be thoroughly ing many apples will fal! to the ground that are periectly good ior many purposes, but cannot be
inclucted in the regular shipping stock. Indeed, many of our most careful growers clean their or-
chards carefully not later than the middle of September, and make excellent use, as evaporated stock or for local markets, of the windfalls from
hat time till the end of the season. In the case vindfalls for evaporated stock or for canning the poses would make a fair profit on the season's he way of laddercs
 taking a light, straight, whitespruce pole and ripping it in the middle within a foot or two of
the top end. having previously bored holes hrough the stick, which when the two halves ar
opread apart will take the rounds to form adder. The rounds will gradually decrease in length from top to bottom, though the top of the
ladder will bend around with $a$ iairly sharp curve over the last two or three rounds. A ring is where the sawing ceased, and the foot or eighteen nches above this ring will then be smoothed of he laid in the crotch of limbs, and the ladder can then be ascended with periect safety. If two or
Chree of these are made of different lengths, scarce three of these are made of different lengths, scarce-
Iy any other device is needed to reach all parts of the tree. Where, however, a tree is very sym-
netrical and of the low-headed type, it pays well cet high, supporting two stout pianks, that car picker may stand while he gathers a very large portor of the fruit pite picing is done much more
papidy when the picker has a convenient place e this upon whie stand mus he round-bottom peck baskect, lined want ith burlap
A wire hook shaped like the letter S is convenien to attach it to limbs. There are a variety of
bags, some of them fitting over the shoulder, sthers made apron form, all of which have certain
nerits. With any I have seen in use there is llways a tendency to bruise the fruit more or
less. meptacle, as a bag has the same defect as a ('losely connected with the picking question, Comes the question of whet her the packing shal
he done in the open ar in the orchard or in
precerence must the priven to the packinchouse system. In that case, it will pay
the orchardist to have a number of boxes made hollding about half a bushel or slightly over, and
thade to fit into a frame on a spring wagon, so to the packing-house. The packing house need not be an elaborate buildiing, and may be used for
Hany purposes. The use of such a building gives the brest advantage. It also makes the super Vision of the graders and packers much easier, and there is less danger of dirtying the barrels than
packed in the orchard. The proper parking of apples in either boxes or
aarrels implies that they have been properly picked
 ool the applese and it is in this condition that hey should te packed under all circumstances. The package, whether barrel or boos, should be I good material, both as to appearance and as
o quality. The barrel is likely to be the favor
quan
 0 come, hence the necessity of giving every ...t lar
lon to this package
The staves should be sound and free from large The staves should be sound and free from large

THE FARMER'S ADVOCATE
quality, inasmuch as it is the weakest part of the arrel. It is highly desirable that the quarter
oops should be double, as well as the end hoops. Making elght in all. A careful record by the Cight hoop barrel was much the shofer packate the that the shipper was well repaid for the extra Cost hy the safety which was insured to his fruit. Cuficient care is not given to the preparation nor too dry. If too green, it is very apt to mold on the inside, and present an unsightly appearance when opened if too dry. the staves
swell after the fruit has been packed, and, in


The Iron-circle Press Head, for Pressing the Heads of
welling, of course, enlarge the capacity of the arrel just enough to render the apples slack firmly, and three nails driven into the outsid ones, these being carefully clinched on the inside end. The face end of the barrel is nailed with six ines are narrow strips of about the size of the



Sample Marking on Head of Apple rel., Showing the Par
lars heequrad by the
Fruit Marks Act.
wide, nailed with four or five nails upon the outand snugly into the staves, so as to form really part of the C. This trength of the head
The fruit for the face should have the stems
taken off by a stemmer, and should be placed stem-end down in circles as neatly as possible. Such fruit must be of the same quality as the
rest of the barrel. If the apples are colored on


#### Abstract

one side only, it is perfectly legitimate and proper o lay the second row with the colored portions howing through between the spaces of the first fow. This face having been ed apples is placed upon it. After the second basket is placed in the barrel, the barrel should be shaken or racked slightly, not so as to the side of the barrel, but just sufficient to settle them in place; and this haking or racking must be done after each basket within two or three layers of the top, a filler made of a round piece of plank, slightly smaller than the head of the barrel, padded with the heaviest saddler's felt, is placed upon the apples. Slight pressure is put upon this it a final racking. This usually settles the ruit into place and leaves a level surface upon which the last process or tailing-up can le done. This process of tailing is it consists in arranging part of barrel-packing. It consists avenly, so that they will project slightly above the chime of the barrel. The head is then placed on and pressure is applied. If the tailing has been well done, this pressure will be borne equally by each apple in the last row. If it is not well done, some of the apples in the last row will project, some of the apples in the last row will project, taking the greater part of the pressure, with the esult that some of them will be badly bruisod, if pressed into place and the end hoops kmocked down to the proper place, six nails are driven through the top hoop and staves into the head, through the top hoop and staves into the head, but on no account put nails through apples, and hoop, as this invariably spoils some applater


 The liners, of course, are put in the finished head, and these liners should always be kept The particulars of the variety, grade and the acker should be neatly written in lead pencil near the chime, as a guide to the proper stencilling of he barrel later on.Paper heads on the top and bottom are to be
No device is better than ordinary light pulp board.
The pressure should be very carefully regulated,
and will vary with the purposes for which the and will vary with the purposes for which the barrel. Early apples, being very soft in texture, require special care. Some later varieties, notably the Spy, split very readily under heavy pres-
sure. Others, like the Russets, require very considerable pressure if intended for long shipment. If the apples are to be stored and repacked before selling, they should be pressed very lightly. After packing, no matter what the destination of the
iruit may be, they should be got under cover at iruit may be, they should be got under
once, and into as cold a place as possible.
once, and into as cols a familiar to Eastern Canadian growers, but is rapidly coming to the front. To pack apples rapidly, a good eye and consider-
able practice is required. The apples should be packed in layers, each layer, if possible, to be uniform. At first sight, it would appear impos-
sible to pack every size of apple in one size of sible to pack every size of apple in one size of
box and fill it properly, yet this feat is performed. of the many different styles of pack, the most useful, perhaps, are the 2-2 and $2-3$ diagonal. These styles of pack are illustrated in the accompanying
diagram. Figure 3 shows how to start a $2-2$ diagram. Figure 3 shows how to start a $2-2$
diagonal pack, the first apple being placed in the corner of the box, and the space between that apple and the opposite side is then divided into two parts by the next apple. The third and fourth are placed in the spaces between one and
two and the side of the box; but if the apple are the right the aps



Nailing Bench.
After the packing of the box is completed, the cover must be carefully nailed
position. The lining papers are folded neatly at the edge of the top of the
, x to allow tor the swell, and will then overlap slightly at the center. This is he style, with some modifications, in general use on the Pacific Coast, and can

- readily made by anyone handy with tools, with such assistance as may be
be readily made by anyone handy
obtained at any blacksmith shop. will not touch the
end of the box. The
fifth end of the box. The
fifth apple is placed
between three and between three and
four, and the sixth is wedged between the and the side of
the box. This will complete a diagonal
row, and the diagrow, and the diag-
onal rows are then continued until that The next layer is same way, only the first apple is placed corner and the process is then con-
tinued. Figure 4 illustrates the starting
of a $2-3$ pack, which is self-explanatory. In addition to this, there is an-
other method of packing whtch is de scribed as a straight
pack. In the straight packs each apple is directly
over another and over another, and all tiers are alike. This, at first
sight, would seem to be the easiest method of are really not as useful as the straight pack Beginners sometimes measure with a single ro of apples along the corners of the box from end
to end and from top determine more or less accurately what can thus pack will best suit that accurately what style of apple. Such de
vices, however vices, however, can soon be dispensed with as the packer becomes familiar with the art of packing.
No explanation that can be given in take the place of practice, no matter how wil miliar the operator may be with the descriptions of the various packing methods. The hand must able to detect differences in size and shape be small to be recognized by the average customer One advantage of packing in tiers is that the number of apples that the box contains can be dethat, by opening either the side or the top of the package, the contents are practically all open for nspectio
$\qquad$ box must be packed tight, and some device mut the used to keep it tight until the consumer opens it This device is the swell or bulge in the middle of top and bottom which every box should have when
it is completed. This swell is apples that are slightly smaller in dimension wards the end of the box, while larger apples a used towards the middle. If this is systematica a half an inch or somewhat less above the fruit the ends, and an inch and a half higher than the box at the middle. The top and bottom covers
being made of very fexible an inch thick, is placed upon the a quarter of when the ends are nailed down under pressure that top and bottom will project about three-quarters of an inch each above and below the sides. the boxes unon both top and bottom the ends partly to protect this bulge, but more particularly to keep the top and bottom covers of the box from fastening it to the end niecec that are used in carried on wagons, or packed in cars, they shoul be laid upon the sides, not upon the top or bot is to have the sides of the box somewhat rigid as it will be if it is composed of good three The top and bottom or covers very slightly heavier
Thot be thicke the very best material terial cannot be made up by increas ng the thick-
ness.

CULTURE AND MARKETING OF APPLES The following questions, asking for detailed in
ormation regarding the growing and market in of apples, were contained in a letter addressed last answered by Prof. Hutt, whose reply is cive, and with. The writer asked for information partienarly as to the following points:

The variety of stock which would be most
likely to be profitably raised in the (Oakille district for export, giving (a) the name of the
variety, (b) the age the tree should planted, (c) how long after planting each variety possible, what production might reasonal), if the expected per tree or acre from first fruit-liear(a) Original cost of
(b) Cost of planting.
(d) Flowing and harrowing.
kinds of fertilizers used.
(g) Pruning
(h) Packing
advise me if 1 am right in assuming (Ilea)
Average cost of transportation per harre
or box (Oakville to Montral, and Montre
(k) Insurance.
$(\mathrm{m})$ Commission for selling in (ireat Britain
per hox of diferent varieties when sold
from the ship) in (front laitein from the ship in Great Britain for several
years rast. (n) $\begin{gathered}\text { years trast. } \\ \text { Approximat }\end{gathered}$
plant and capacity of erection of storage
(o) Approximate cost of erection of evaporat
(p) ing plant and capacity.
om a barrel basis when shipped by barrel or in boxes.
(q) Whether it would be more desirable boxes are used, to ship in boxes with crates
or without crates and each apple wrapper
in paper, or with crates and also each team. At present rates, it would cost from $\$$,
apple wrapped, if a special kind of paper is to $\$ 4$ per acre. apple wrapped, if a special kind of paper is
used for wrapping to prevent deterioration or damage from moisture. Any suggestions or information that you could and summer, and shipment by rail storage, winter io be appreciated; also any general informa be put sources, of information with which I might ANS:- (a) For information recording varieties most likely to be profitable in the OakMr. A. W. Peart, who is the Government experi menter for the Burlington district. His list of varieties you will find given on page 4 of Bulletin
147 . This list. of course, is meant 147. This list, of course, is meant to cover the

C. M. Bryant, Wollaston, Mass. WQuld be inclined to plant most largely of the
last half-dozen on the list 18ibston, 13lenheim,
King, Greening, I3aldwin Spy age of Opinions differ as to the most desirable four-year-old tree which has been woll a large the nursery. Others prefer good thriity two-yearolds. For my part, I prefer the latter, from the can be pruned back to start the head at whatever height may be desired. (c) The age at which varieties of apples come into bearing varies considerably with the diferent
varieties. Such varieties as Ontario and Weallhy Often bear, even in the nursery row, on three- any four-year-old trees, while Northern, on threes have to attain ten or twel ve years of age before they show
much sign of bearing fruit prohably on the
average. six or soven yonrs migh average six or seven years might he taken as the age of coming into hearing. ten years will dependt altogether upon the the first
as may be inferrect from what regarding aere of coming into bearing. varies from $\$ 20$ to $\$: 30$ trees at nursery now
thrifty, wer hundred for good (b) Cost of planting will vary, according t the number of trees planted per acre, and kind of


[^0]
 own personal attention, it will bay him to emplis services, to insure the work lemge louked aite down and figure out profits to be derived from an
orchard, as there are so many things to be takul orchard, as there are so many things to the takel
into consideration which cannot be definitely figured upon unless one is sure of first-class man
H. 1 . HITT, Horticulturist, O. A. C., Guelph.

6
HORTICULTURAL PROGRESS Prepared for "The Farmer's Advocate" by W.
Macoun, Horticulturist, Central Experimental PACKING APPLES IN BARRELS ANi BOXES Since the passing of the Fruit Marks Act, in
1901, and the establishment of the Fruit Division in connection with the Department of Agriculture,
the Dominion Government has done much to in the Dominionethovers of packing apples in Canada
prove the medition to the benelicial effect of the Fruit Marks Act, which makes it imperative that fruit
shall be packed according to legal standard demonstrations in packing which have been given
vear after year, at the fall exhibitions, and at special meetings by experts, have spread a knowl-
edge of what good packing means throughout the country.
It is difficult, however, for the average farmer to remember from one year to another all the possible methods of packing apples, and the sizes
which admit of certain methods ; and, moreover, there are many persons who have not seen a pack-
ing demonstration, hence the latest bulletin of Mr. Alex. McNeill, Chief of the Fruit Division, on will be welcomed by all Fruit-growers, for in it we have a manuai of packing which can be used for
reference at any time and as the bulletin has large number of good illustrations, showing different methods of packing in the various stages,
from the ", facing, of the barrel or box to the
". 'tailing," the information given is made very clear. It would be impossible in a review of this
kind to go into all the details contained in this
useful bulletin, buit some of the maters dealt useft
with tion is given on the barrel, including descriptions of the different kinds of barrels made and used in
Canada. Fimphasis is placed on the economy of Canada. Fmphasis is placed on the economy rels, the work being done during a slack time when hired holpers can be retained on the farm,
where otherwise they might be dismissed, and not so easily got again. The process of packing a relating to pressing may be quoted in full, as there is no doubt but that much injury is done to apples both through overpressing and through must be given will depend somewhat upon the
variety of the apple. If they are packed for storage for a short trip, then the pressure for
not be so heavy. If they are packed for as to break the skin of any particular specimen.
It has been the experience of the fruit inspectors who open a great many barrels during the season overpressing as underpressing. Overpressing will break the skin of the apple, or bruise it severely,
inducing decay in one or more specimens, which very quickly causes slackness. Certain varietie
too, will require and stand more pressure tha ately, as the apy has splits readily under pressed moderpressure without breaking the skin, and appear
to require heary pressure to prevent slackness from evaporation ""
The way the barrel is marked after it is packed is almost as important as the packing itseli. The patance with the Inspection and Sale Act An
atictive trade-mark should be used by every fruit-grower.
There is a chapter on " Boxes vs. Barrels," in which are given the pros and cons of each. These boxes. The box is the only practical package in
 reasonable deerree ofe ectonomy, in a fit condition
Tor the hifistest tosest trate, loxes. The retail merchants, other things being

 boxes experience of Canadian shippers has not,



- improper packing and
oor grade in the boxes. $\qquad$ he apple box, the legal measurements given of There are 10 inches deep, 11 irches wide, 20 inches long, ing, and for closing the boxes grading and pack which apples of different sizes may be packed bulletin there are very useful instructions of the onx-packers, and also quotations from the Inspec fion and Sale Act, being that part of it formerly This bulletin is a valuable sequel to Mr . Mc Neill's bulletin, on "Co-operation in the Market-
ing of Apples," which appeared earlier in the season.
bush fruits
A bulletin on " Bush Fruits," prepared by W
Macoun, has just been published, as Bulletir No. 56 , of the Central Experimental, Farm Bulletin The fruits dealt with in this bulletin are the cur rant, gooseberry, raspberry, blackberry and dew berry. An historical sketch and cultural direc
tions are given for all of these fruits, and lists tions are given for all of these fruits, and lists of
varieties recommended. There are descriptions 199 varieties, including 41 red currants, 15 white currants, 33 black currants, 38 gooseberries, 5 red raspberries, 11 black-cap raspberries, 9 black-
berries, and 2 new dewherrios which should prove berries, and 2 new dewl
useful to fruit-growers.
Descriptions of the principal diseases affecting the various bush fruits are published, with reme
dies for the same, and there is a chapter on dies for the same, and there is a chapter on in
jurious insects. contributed by Dr. Jas. Fletcher jurious insects, contributed by Dr. Jas. Fletcher
Dominion Entomologist. A spraying calenda gives the formuæ recommended for comtrolling the fungous diseases and injurious insects referred
to. In addition to the matter already mentioned, the results of cultural experiments, variety tests and spraying experiments conducted at the Central
Fxperimental Farm during the past twenty years Fxperimental Farm during the past twenty years
are published. There is a special chapter on the are published. There is a special chapter on the
work of $\mathrm{Dr} . \mathrm{Wm}$. Saunders, Director of the Do-


Royal Review (13712)
1905. Winner of first and

- yxdestalce stallion: foaled 1905. Winner of first and $\begin{gathered}\text { land Show, } 1907 . \text { Sire Hiaw }\end{gathered}$
towards the improvement of bush fruits. A large number of Dr. Saunders crosses and seedings are cultural experiments need not be given in detail at esting, and the following are those recommended - ARIETIES OF BUSH FRUITS RECOM-CURRANTS.-Red, for general culture: Po mona, Victoria, Cumberland Red, Red Dutch
Greenlield, Rankin's Red, Red Grape. Where bush es are protected with snow in winter, and for the milder districts: Pomona, Victoria, Cumberland Red, Wilder, Cherry, Fay, and Red Cross. White
White Cherry, Large White, White Grape. Black White Cherry, Large White, White Grape, Black toria. Of those not yet on the market which are onsidered equal to or better than the above, the Collowing are the best: Kerry, Cclipse, Magnus
Clipper, Climax and Fagle. Clipper, Climax and Eagle.
GOOSEBEIRRIES.-American: Pearl, Down ing, Red Jacket. English (from experience at Central Experimental larm, as being freest from
mildew) : $\quad \begin{aligned} & \text { Companion, Eacle, } \\ & \text { (ilenton (Green }\end{aligned}$ mildew): Companion, Eagle, $\begin{gathered}\text { (Alenton Green } \\ \text { English usually }\end{gathered}$
 Hilborn,
promising

A FEW WORDS HIS GARDEN. et me tell you what I have ore many people are ASTEH deed, its use is legion.
Wentworth Co.. Ont. Marron with the Christmas number thrown in! It is a

Herbert. Yellow: Golden Queen. Purple: Co
Himbian, Shaffer. Black Cap: Hilborn, Older umbian, Shaffer. Black Cap: Hilborn, Older aregg, Smith, Giant. $\quad$ Fior Home Use.-Red: Herbert, Sarah, Clarke Heebner. Yellow: Golden Queen. Purple, Co
lumbian. Black Cap : Hilborn, Older, Gregg Smith, Giant. Brighton Count Hardiest arieties.-Red : Brighton,
Herbert, Sarah, Turner (Loudon has proved one of the hardiest in the Northwest). Purple Shinn. Yellow: Golden Queen. Black Cap
Hilborn, Older, Cumberland. A new variety is promising.
BLACKBERRIES.-Agawam, Snyder, Eldorao; and, for southern districts, Kittatinny. Im DEWBERRIES.-Lucretia, Mayes (Austin Im-

FROM MR. GOODGROWER ABOUT
Fditor"The Farmer's Advocate -
PEARS to me my garden BEETS all this year


Carly Giant CORN
is almost everything one could CAULIFLOWER.
You should see the MORNING GLORY of it be-

斯 SQUASH the success of it. JOIIN GOODGROWER.

## A VALUABLE GARDEN TOOL.

I came upon this tool by accident. I had been ooking for a tool that would stir the sod! between the it did not wish a tool
that would go deeply into the soil, thus de-
stroying $t$ he tender troying t he tender
rootlets that have so do with feeding the young plants. garden hoe did not al-
ways answer the purways answer the purhad killed all the
weeds, and I now was anxious to preserve a
dust mulch between the plants as well as between the rows. 1
was looking for a narow garden rake when $c a \operatorname{me} \quad$ upon $a$
garden rake that was ne side, having only one side, having only
two teeth on one side of $t h e$ handle. $A$
ham mer and cold hammer and cold
chisel soon made the chisel soon made the balance myself provided
found mith one of the most
wither valuable garden imple-
ments in my possesments in my posses-
sion. It is just the
thing for breaking up the crust between mangels and in the garden, where the rows are narrow, it allows me to do my earth-stirring while backing up in this way, leaving the earth untramped when the work was done.
The women are in love with this implement, as they The women are in love with this implement, as they
never/had anything before this quite so effective in stirnever/thad anything before this quite so effective in stir-
ring the soil among their flower plants. The value of this implement in preparing the way for the potato just showing its nose through the garden soil will be
apparent to anyone familiar with the need of breaking apparent to anyone familiar with the need of breaking
up the crust on clay soil. It simply can't be beat in stirring the earth around young strawberry plants. In-

## SPECIAL OFFER TO NEW SUBSCRIBERS.

 We make this special offer to new subscribers: ny person not already on our list may, by pay ing us or any of our agents 40 cents in cash, obsine ". The Farmer's Advocate and Home Maganclude the magnificent Christmas 1907 . This will published in Iecember, a number which many would consider good value in itsell at 40 cents in at 50 cents. Forty cents for four months Wint, Marlboro; Red (main crop): Cuthbert, liberal offer. Show it to your friends.THE FARMERS ADVOCATE.
THE FARM BULLETIN. western railroad facilities improved.

PRINCE EDWARD ISLAND WANTS THE TUNNEL Prince Edward
the mainland by thumberland-there re is no doubt about th
by inscriptions picture perch by inscriptions on letter heads positive tone, and in every way that ingenuity can devise. The latest thing in tunnel literature, as our
good friend, Rev. A. E. Burke, the stalwart champion good friend, Rev. A. E. Burke, the stalwart champion
of the tunnel agitation, expresses it, is a picture postal of the tunnel agitation, expresses it, is a picture postal in New Brunswick and Cape Traverse in P. E. Island. the bottom one reads.

At the capes in the winter And you long to get over, but how can you cross? But this is to tell you a way has been planned By which you can pass to the opposite strand, Hold this to the light and you'll see your way through
Holding the card to the light the solution appear as a tunnel connecting the Capes. Success to the
Island cause.

SUPERVISOR OF SCHOOL GARDENS IN NEW BRUNSWICK
D. W. Hamilton, M.A., Ph. D., who recently re-
signed the Principalship of the Macdonald Consolidate School at Kingston, N.B., after having filled the pori-
tion for several years with conspicuous success, has
been been appointed Provincial Supervisor of School Gardens
and Instructor in Biology and Instructor in Biology and Agriculture in the Nor
mall School in his native Province of New Brunswick
The new position was suggested, we understand, by Dr
Jas. W. Robertson alary. Robertson, who has arranged to pay half the In the summer seasons Prof. Hamilton will be en
gated for two or three months with the Seed Branction gage for two or three months with the Seed Branch
Ottawa, as inspector of seed plots in New Brunswick Ottawa, as inspector of seed plots in New Brunswick
in which capacity he is called upon to discuss seed selection, weeds, etc., with Now Brunswick farmers. In
this work he has been employed for this work he has been employed for some weeks past.
In a recent letter he writes that on some farms at Chatham he found many specimens of the notorious ragwort (Senecio Jacobsoa). Grain and root crops are
in general looking well, and the upland hay crop will be a record one. Marsh hay (fresh water) will be be
nearly a total failure, as nearly all lowlands are flooded.
JUDGES AT WESTERN FAIR, LONDON.
HORSES.-Thoroughbred and saddle horses-W. H.
Millman, Toronto. Hackneys and high-steppers-Allen Mailman, Toronto. Hackneys and high-steppers-Alle Gait. Roadsters -Wm. Bishop, New Hamburg. Clyde ales and Shires-Geo. Charlton, Duncrief. Heal
drafts, ${ }^{\text {and }}$ etc.- $P$ McGregor. Brucefield. Barnes, London seys-J. W. Hunpidge, London. Ayrshires-Johin Mc Tee, Norwich. Holsteins-A. C. Hellman, Breslau
Herefords, Angus and Galloways-T. E. Robson, Lo
SHEEP.-Shropshires-Albert Shields, Caistorville
Oxfords-J. E. Cousins, Harriston. Southdowns-W. H. Beattie, Wilton Grove. Dorsets-John Guardhouse, Highfield. Cotswolds-John Kelly, Shakespeare. Leicesters
-A. Whitelaw, Guelph. Lincolns-D. A. Campbell. A. Whitelaw, Guelph. Lincolns-D. A. Campbell
Strathburn. Hampshires-J. T. Gibson, Dentield. Breslau. Chester Whites-D. C. Flatt, Millgrove. Berk hires-S. Dotson, Allow.


TORONTO EXHIBITION JUDGE


Galloways, Prof. Arkell, Ste. Anne de Bellevue, Ayr
shires, A. Kairns, Byron; Jerseys, C. T. Ciraves, Mait-
land, Mo.; Holsteins, H. A. Mover, Syracuse, N. Y.
SHEEP.-Cotswolds, T. Hardy Shore, (ilanworth

Duncan, Lewiston, N.Y.: Dorset Horns, John Campbell
Woodville: Lincolns. John Gardhouse
Woodville; Lincolns. John Gardhouse, Highfield!
SWINE.-Berkshires, S. J. Lyons, Norval ; York
shires,
Nichole, aubrey

## IMPORTED STOCK IN QUARANTINE

 Following is a list of animals in quarantinePoints Levis, Quebec, for August, up to the 15th: For Robt. Miller, Stoufville, Ont., 2 bulls, 3 heifers Shorthorns. W. G. Cavan. Toronto, 3 bulls, 21 heifers Jerseys (from Island of Jersey). Also 172 sheep of
seven different breeds, and 40 hogs of three different seven different breeds, and 40 hogs of three different
 railways in the Canadian West, reports that conditions in respect to roadbeds, rolling stock, etc., have greatly improved during the few months, and transportation better than coming fall and winter will be much were found to be much better N. R. lines, especially, to the large am ole owing this summer. All the C.N. R ines areas, etc., done good condition, and the C.N. R. lines are now in fairly
kinds. kinds. Large additions have also been made to the
rolling stock, and the the rolling stock, and the terminal facilities have been im-
proved. The Railway Commission has now approved proved. The Railway Commission has now approved
all the plans of the G. T. P., from Winnipeg right through to Fort George, in the Rocky Mountains.

DECREASE IN EXPORTS TO GREAT BRITAIN The revised figures for Canada's foreign trade for
the twelve months ending June last, as compared with the twelve months ending June last, as compared with
the fiscal year $1905-06$, has been issued by the fiscal year 1905-06, has been issued by the Depart-
ment of Trade and Commerce. For the twelve months the imports and exports totalled $\$ 612,65 w, 107$, an in
crease of $\$ 65,723$ and crease of $\$ 65,723,069$. Total imports were $\$ 354,430$,-
433 , an increase of $\$ 64,138,025$. 433 an increase of $\$ 64,138,022$. Exports $\$ 354,430$, totalled
$\$ 258,171,674$, a
from of only $\$ 1,585,044$ Imports from Great Britain increased $\$ 19,895,161$, Imports
exports declined $\$ 5,193179$ exports declined $\$ 5,193,179$. Imports from the United 630; exports to the United States for the $\$ 39,877$, . months were $\$ 104,260,494$, a gain of $\$ 6,453,766$ twelve 905-06. Total imports from Great Britain for the $\$ 127,901,688$, were $\$ 89,067,350$, and total exports

## GOING TO OGDENSBURG SHOW

$\qquad$ and stockmen, announces elsewhere in this issue farmers Farmer's Advocate", a big fair and horse show, Sept toms Arrangements have been made with the curother authibits.ties for free admission of live stock and


HOW HE SAVED HIS HORSE
Drawn for "' The Farmer's Advocate HORSE. to feed will be able to make en on ilk more millet or corn cheaply than if First Farmer-" Yes, sir, he's the best horse I have time the second is crop the tame we usually turn the cows into winter, but 'The Farmer's Advocate set him up all are producing milk will miss it ! Those dairymen who Second Farmer - "How was that ?"' filling their contracts at present, and wa have not come
First

 again letters telling us practically the same thing have will er mot be sold and it is a foregone conclusion that it
been received at our office. There is no better receipt 20 cents per gallon, and
will Tor saving and making money than a subscription to possibly 22 cents, delivered in the city. With hay at

- The Farmer's Advocate." Have you not some neigh.
 HORSEMAN UNHORSED conditions since last writing. This has resulted grass, prematurely ripening the grain, wilting the col and root crops, drying up streams and wells, miluch inconvenience in watering stock, and lessening that I have to record this month, quite different the optimistic strain in which I usually write, but are the conditions here at present, conditions that hat to been experienced here for many years; and to add
to this, the grasshopper plague has also been but is sectional, as in some localities there are vert, grass and green memory serves me right, it is nearly thirty years and we had a similar grasshopper nearly thirty years since are cutting the oats very green to save them from It is now generally conceded that the hay was little more than half a crop, but of good quality, and, as a rule, well saved. There were occasional fields tia
became overripe before the mower got to them, whit would lessen the feeding value of the product. Harvest is well under way, and much of the grain feeding value of the green side, which will add in the sing crop, and many fine fields were noticed, but, with the premature ripening, they are not filling, but witheryield will not be as I I argo as last in estimating that the three-quarter crop. Barley is about, or not ce hough filling better than the oats, as it was further hot filling as well as if the weather. Wheat is also vorable. Corn as if the weather had been more the past three weeks; fields that were replanted and promised little a month ago, look now as if fair aery favorable conditions exist and immature, unless the early-planted corn is likely to to give bic returns for. age, only will be a little later than usual in developThese days. with the ground dry as ashes, and ilted. Potatoes are prematurely plant looks somewhat promise of being a good crop of tubers and what looks disappointing, as while the tubers are numberclean and free from scab and
blight. Roots are alma standstill, but this is the one
crop that grows in what has been lost mem some of clearance of that have the apcases one wonders where
he cows get a living. Most of he dairymen a living. More now feeding
some soiling crop or concentrate high in price that it are all so
prohibitive almost to feed with bran at some $\$ 22$ and
moulin at $\$ 28$ per ton, there prices of butter and cheese. shippers any too much profit. . farming " theory, as splendid season to put the "Dry-
thethoml of called, into practice-the
$\qquad$



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

$\qquad$
 -

 1.incoln, Nebraska, who is recognized as the father of
$\qquad$



## THE FARMER'S ADVOCATE

The Sovereign Bank of Canada
head office,-TOROMTO
Pald Up Capltals : *3,000,000. bonit of plisctons
 HoN. D. MCMILLAN,
ARCE.
MAPBRLL


F. Q. Jemontr, $\therefore$ ish GencralManage

Savings Bank Department
 89 Branches Throughout Canada.

MARKETS.
TORONTO
ve stock
Receipts of cattle at the Junction and while other classes of live stock were told, 264 carloads, composed of 4,67 lambs, 432 hogs, 3,223 sheep an quality of cattle generally was not good,
the bulk of them being unfinished. fair for best grades, but slow for com mon grades. Prices were 15c. to 25 c

per cwt. lower for exporters whil | per cwt. . $\begin{array}{l}\text { ower for exporters, while th } \\ \text { butchers' } \\ \text { the bemained steady, especially for }\end{array}$ |
| :--- | On Monday, August 26th, receipts

cattle at the Junction amounted to 98 Carloads, comprising 2,103 head. Trad
was brisk for goad quality $\$ 5$ to $\$ 5.35$; bulls, $\$ 5$ to to $\$ 5,25 ;$ some picked butchers', $\$ 4.75$ to $\$ 5.10$; lo $\$ 5$ good, $\$ 4.60$ to $\$ 4.90 ;$ medium, $\$ 4.25$
$\$ 4.50 ;$ common, $\$ 3.25$ to $\$ 3.85$. She and lambs as quoted below. lects, $\$ 6.50$; lights and fats, $\$ 6.25$,
Exporters. - Best
loom $\mathbf{~ l o a d s}$ sold last week from $\$ 5$ to $\$ 5.25$, with two or three lot
at 10 c . to 15 c . per cwt. more. Bull sold at $\$ 3.75$ to $\$ 4.50$.
Butchers picked lots at $\$ 4.50$ to $\$ 4.90$; medium
butchers', $\$ 4$ to 84.30 ; butchers', $\$ 4$ to $\$ 4.30$; common, $\$ 3.50 \mathrm{to}$
$\$ 3.80 ;$ coms, $\$ 2.50$ to $\$ 3.75$; canners, $\$ 1$ Stockers and Feeders.-Feed reported as being scarce, with pastures drying ap
caused this branch of the trade to b very dull. Few were offered, and not
many in demand, with prices practically
unchanged. many in demand, with prices practically
unchanged. Feeders, 800 to 900 lbs. Mach, are quoted at $\$ 3.25$ to $\$ 3.75$
stockers, 500 to 700 at stockers,
$\$ 3$ per $\mathbf{c W}$
Milkers
best quality cows are being sought after
Prices ranged from $\$ 25$ ver bulk of best quality selling from $\$ 40$ t 850 eact
Veal
cuality
ranged
the bulk
sheep
moderat
Hogs.- Prices on Aug. 19th were quotin $\$ 6.65$ and $\$ 6.40$ while at Junction, at Harris paid 86
for lights.
Horses. -1
rade in some clogses while in report a fai 175 horses changed hands at the ReDemand for drafters is not horses sold fairly well. Drafters, 1,400 t weighing, 1,300 to 1,500 lbs., sold at at
$\$ 165$ to $\$ 225$; expressers, 1,250 to 1,350 $\$ 165$ to $\$ 225$; expressers, 1,250 to 1,350
lbs., at $\$ 160$ to $\$ 210$ carriage horces sold from $\$ 175$ to $\$ 300$ roadsters, $\$ 150$
to $\$ 250$, serviceable sound horses were
brfanstufa Breanstuffs.
$\begin{aligned} & \text { Wheat. - No. } 2 \text { white, } 84 \mathrm{c} \text {. } \\ & \text { outside points, } 81 \mathrm{c} \text {. to } \\ & \text { oneat }\end{aligned}$
.

Grain -There is practically nothing to
ing in the market, so tar as to
ness is concern,

$\qquad$
$\qquad$

$$
\begin{aligned}
& \text { \$14.50 to } 815 . \\
& \text { Hidese.-There have been advances in the }
\end{aligned}
$$

$$
\begin{aligned}
& \text { marke for hides during the week. IDeal } \\
& \text { ers are up a cent in their ofers, at } \overline{\text { ect. }}
\end{aligned}
$$

$$
\begin{aligned}
& \text { er, owi } \\
& \text { at } 4 \mathrm{inc.}
\end{aligned}
$$

$$
\begin{aligned}
& \text { at 4nc. } \\
& \text { steady } \\
& \$ 2.25
\end{aligned}
$$

$$
\begin{aligned}
& \$ 2.25 \\
& \text { to } 3 \neq 1 .
\end{aligned}
$$

CHEESE BOARD PRICES

$$
\begin{aligned}
& 11 \mathrm{tc} \text {. to } 11 \text { 3-16c. Kingston, Ont., } \\
& 11 \mathrm{tc} \text { Victoriaville. Que., 10gc. Napanee, }
\end{aligned}
$$

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

CHICAGO.
84.90; calves,
Hogs.-Choice heavy shipping, $\$ 5.30$
$\$ 5.90$ light butchers', $\$ 5.95$ to $\$ 6.1$
ight. $\$ 6.10$ to $\$ 6.20$; pack
QUESTIONS AND ANSWERSMiscellaneous

BRITISH CATTLE MARKET



1376
THE FARMER＇S ADVOCATE．
precinct like this，man is not crowded so close to his fellows as to lose his domestic sancity and reserve Out
on these hillsides，or river valleys，or
lake shores，such homes are and can be places where the family ideal can take root and grow；where the old－
time dream of self－rule and freedom， thich dream of seli－rule and freedom， ever again，be fostered and nourished． If we enter such a home，we will expect to see the interior like the out－
side，simple but dignified；and some－ where within an open fireside，where childhood might gather，where youth could dream，and old age recover
colder memories． In such a house one might expect to find a few books and pictures of
the old classic school，the former in books，representing the wit，wisdom and virtue of the kings of mankind are worth a thousand of the mere－ tricious volumes which disgrace and
degrade the present day．What de－ lightful memories are his who can r call boyhood by such a hearth，in such a house，when the autumn winter－night wind went roaring wid the creaking of great branches side in the bleak gale，while in the candle or firelight he went voyaging，
in delightful imagination，with the in delightful imagination，with the or，perchance，dwelt in childhood＇s
golden enchantment with the lonely golden enchantment with the lonely
Crusoe on his magic isle． his magic isle．
WIIFIRED CAMPBELL

## The Quiet Hour．

A CHAT ABOUT CHURCH－GOING． And all the people came early in the
morning to Him in the temple，for to hear him．－St．Luke xxi．： 3

At Thy feet，O Christ，we lay
Thine own gift of this new da Doubt of what it holds in store
Makes us crave Thine aid the more Lest it prove a time of loss，
Mark it，Saviour，with Thy Cross，
Don＇t you think that Bishop Thomson may be fully justified in his statement
that one might safely write over hundreds of graves，this epitaph：He kept no Sunday ！＂He says that strong men
are cut down in their prime，and the dectors give a dozen names for the cause of their untimely doath－softening
brain，paralysis，heart disease， ewhaustion－but，sifted to the bottom，the ereatatstion－but，sifted to the bottom，the
real fact is that the men kill themselves by not keeping Sunday－＂business mer
statesmen，lawyers，students are all get statesmen，lawyers，students are all get
ting in the habit of going out at moment＇s warning，dropping dead as they stand，in a way that has never been known before．
an investigation of a thousand to make an investigation of a thousand cases of there was any plain connection between
the breach of the Fourth Commandment the breach of the Fourth Commandment
and a weakened heart．
But I am not trying to give directions But I am not trying to give directio
about the best way of building up
strong constitution－except by the wa strong constitution－except by the w
as health of body is effected by a healt condition of soul．I hardly think that
many people would be induced to keep many people would be induced to keep
their Sunday holy，in the hope that their ives in this world might be lengthened
thereby．But possibly many people ar drifting almost imperceptibly into the lax observance of Sunday，which is now
so prevalent，without intending to break God＇s law or fully considering the great loss they are sustaining by neglecting to
obey His command． Our common sense may rebel at the triviamties of the Jewish Sabbath，and
we may feel amused at the strict rules Which many Jews obey so rigidly to this match on the Sabbath，nor tear a scrap of paper，nor cut a piece of string on that day．I know hundreds of Jews who will not write a word on Saturday－u
leas the demand of business makes mecessary．But，because some people go to one extreme，is no reason why othe
to
people should rugh to the opposite ex people should rush to the opposite ex
treme and ignore the Fourth Command treme and igno
ment altogether

## bath－he is not to be bound hand and

 oot in order to make one day in seven stand out from the rest of the week．But a direct loss to himself to neglect it．That might be reason enough for setting That might be reason enough for setting \＆part one day in seven as a rest－day－ quite apart from religious motives－but
let us take higher ground，as we should always do． God has required of us one day in
seven，as a token that all our days be－ seven，as a token that all our days be－
long to Him，and should be consecrated to His service．It is the same with our
money．We are required to pay tribute， money．We are required to pay tribute，
not because only a tenth of our income not because only a tenth of our income
belongs to God，but because it all be－ longs to Him，and we are only stewards，
bound to lav it out to the best add bound to lay it out to the best ad－ vantage，for His glory and the good of
the world． All our days should be spent for God，
all our days should be holy－dars，but all our days should be holy－dary，but
experience should have convinced us that we cannot satisfactorily carry the Sun－ make a point of devoting at least one
day more particularly to tha service of
$\qquad$ is dying out．People are rather ashamed of such an evasion，when everyone know
that those who stay away from Divine service，without good and sufficient rea son，very seldom read their Bibles at all
But I think the root of this prevalent But I think the root of this prevalen
neglect of church－going is want of faith neglect of church－going is want of faith．
If souls were not blind and deaf，there would be no room in our churches for the crowds that would flock there＂early in
the morning．＂If we have little faith， the morning．＂If we have little faith，
let us try to become like children again let us try to become like children again
nd make vivid use of our imagination． If we don＇t realize the living Presence of
ur Lcrd，let us try to＂imagine＂that our Lord，let us try to＂imagine＂＂that
He is there．Let us confess our sins，in He is there．Let us confess our sins，in
real earnest，remembering that His ears real earnest，remembering that His ears
are listening，that He is looking into our hearts to see if we really repent and really intend to fight against the old
temptations during the coming week． Then lations during the coming week．
leat drink in，with trembling gladness，His sweet and gracious words of absolution，addressed to all ：who truly
epent and unfeignedly believe the glad repent and unfeignedly believe the glad
idings of forgiveness and sanctification tidings of forgiveness and sanctification．
Let us sing our praises and thanks－


Autumn

God．Those who deliberately cut them－givings heartily，not wondering whether selves off from the public worship of the congregation is admiring the muser
God＇s House，for months at a time，need but trusting that God will find it sin－ Gods House，for months at a time，need
not be surprised if their faith grows weak that（iod will find it sin－
nare enough to be worth accepting．Let
and their spiritual sight grows dim． and their spiritual sight grows dim．us listen to the words of prophet and
＇erhaps they say，sadly：＂I wish I had apostle with respect and earnest atten Perhaps they say，sadly．＂I wrish I had
ny childhood＇s faith back again ！and d apostle with respect and earnest atten－ ad ticn，remembering that they are messages
uls sent to us by Cod＇s ambassadors．And， When the wonderful words of Divine sim－
plicity which are recorded in the gospels fall on our ears，let us drink them in
eagerly，knowing that He who soako eagerly，knowing that He who spake as
no no other man has ever spoken is address－ in ing them directly to us． in As for the sermon－what if the preacher
in is arosy！he does not stand alto－
n－pether gether on his own merits，Read the
tenth chapter of St．Luke＇s gospel and
you will find that not pery you will find that nt．Luke＇s gospel and
o be ouly apostles，but an anlassadors sent out by hrist．
rep，nument 11 im．Those who refuse to re． represent Him．Those who refuse to re－
cive them are warned of certain punish－
ment． cence them are warned of certain punish
ment，because as He says．He that
hearoth you heareth Me end he that hearmh you heareth Me，and he that
despisect you despiseth Me，and he that
despicacth Me dropisoth Him that sent Mo

couraged to speak with conflence becnuse
the words are not theirs，but inspircuse the words are not theirs，but inspired by speak，＂He says，＂＇but the Spirit of My The Speaking in you
through any words，spoken by a soul son．Listen for His voice，and you will guret the special message He in－ uninteresting the sermon may appear and mat a pity it would be if you went the as as poor as you came，missing even
the peace of Christ＇s CWn benediction on ＂．poor，＂wheeling congregation，went away
the treasury was wide open and you might have carried home rich jewels of pardon，strength，wisdom and peace，which would have transfigured very hour of the week．Our souls grow
slowly，$\varepsilon$ g our bodies do．Give them plenty of fresh air，good food，and the healthy exercise of loving acts of service，and they will grow stronger
steadily，and develop a vigorous for spiritual food．Then the bodies in which these healthy souls the bodies in their way to church＂＂early in the morn－
ing，＂not only to＂hear＂．Christ ing，＂not only to＂hear＂Christ，but
to receive Him in His wonderful sacra－ ment，that He may abide in them and
in their homes all the week，and they may abide in Him and in His House，
while their bodies are busily attending When God possible to hear the kound with， ceiving the message，or knowing the our Lord，a few days before His death said：＂Father，glorify Thy Name ：＂He glorified it，and will glorify it again．＇ Rut，while some thought an angel had spoken，others，hearing the sound，said，
carelessly，＂it was only thunder．＂． carelessly．＂＂it was only thunder．＂
So it is in our public worship of God Some can only hear the voices of men while others are listening to prophets and apostles，to the harps and voices of angels，and to One whose voice is sweet waters．＂find that as the sound of many Some find that their words of prayer
and praise are too weak and be heard a yard away，while others know that each word goes straight to the
heart of Him who sits upon the Throne， heart of Him who sits upon the Throne，
blending not only with the angelic hymn of＂HOLY，HOLY，HOLY，＂＂but with the wonderful intercession of our Great Elder Brother at the right hand of the
Father． Go to church with ears and eyes and
hearts ready to drink in the love of the
Infinite God that is waith Infinite God that is waiting to fill you
with，strength and gladness，and you will With，strength and gladness，and you will
never find the church dull and the service long and tedious．But remember that
apractice makes perfect．If you fail verer ＂practice makes perfect．＂If you fail over
and over again to realize the living and over again to realize the living，
quickening Presence of coot in His own
Hcuse，don＇t imacine that He is Heuse，don＇t imagine that He is
necessarily absent．Others can find Him
there，and so can vou．Go regularly，go prayerfully，go hoperully，and you will
some day find the great promise true ＂If two of you shall agreeso on earth as
touching anything that they shall ask，it
hall be done for shall be done for them of My Father
which is in Heaven．For where two or For where two or
three are gathered together in My Name，
there am I in the midst of them．，

It is the house of prayer，
Wherein Thy servants meet；
And Thou，o LorD，art there
Thy chosen flock
Why should we any longer sit at the feet of Christ＂unknowing，blind，and
unccusoled？＂when we need only put
out a hand out a hand in faith to touch the hem of
His garment and be healed of the sin vithin us，and gain new strength for our
daily work and daily batte from tiving And may I ask of the world． neel at the feet of Christ，will you ornectimes pray for me？${ }^{\text {I }}$ need your
if this，not only for myself，but for you． alue．it can only be because God may
he willing to convey His messamed
hrough it dests it．Surely the responsibility failing in its object，may that mot be mat is God＇s blessing on the words I am send－ ng out each week？If＂two of you＂
agree in making it helpful，we have the
romise that the praver will


AUGUST 29, 1907
sult if hundreds or even thousands

 About the House.
c

THE FARMER'S ADVOCATE


Winter
water, then boil. Chloride of lime may not too much soiled, may often be made
lso be used to transform faded muslin look as good as new by rubbing well
 dresses into white ones. Use a table- with a mixture of ine salt and corn-
spoonful to a quart of water. Dissolve starch, leaving over night, and brumhing
thoroughly, strain, soak the muslin, then out well next day. Occasionally the thoroughly, strain, soak the muslins, then
rinse well through several waters, and tinally boil.
Tar Stains. - Kub with lard or turpenTar stains.-Kub with lard or turpen
tine, let stand some hours, then wash
with soap and soft water. with soap and soft water.
Blue stains, made by household bluing, Blue stains, made by household bluing,
may be removed with alcohol. may be removed
Paint.-If fresh, remove with turpentine. If dry, mix a little ammonia with
the turpentine (diluting it first, if the Fruit. Tea and Coffee Stains.-While fresh stretch over a bowl and pour boiling water through. If you cannot treat
them when fresh, remove the stains with them when fresh, remove the stains with
Javelle water, which may be procured et Javelle water, which may be procured at
most drug stores cthe recipe for making most drug stores (the recipe for making
it has been given several times in " The Farmer's Advocate "). Take one part Javelle water and four of soft water;
soak the stained article in this for sev-
eral hours, then wash and rinse well. A
$\qquad$ if much soiled gasoline is the best clean-
ing agent for these, as well as for any other articles of silk or wool, either white or colored. To clean with gasoline, pro-
ceed as follows : First mend the gar ment, and shake and brush it free from dust. Next remove any very conspicuous spots with gasoline and blotting-paper as
above, then prepare for the final cloan ing. Have three covered vessels half filled with gasoline. Put the garment Into the first and let stand hall an hour,
then rinse and squeeze out, and drop into the seconal vessel, transferring the garment, after another half hour, to the
third. Finally shater the a line in the open air to dry afterwands on pressing with a warm iron. This is the method adopted by professional cleaners,
who send you back your who send you back your skirts, etc.,
looking as good as new, but the
T0 degrees. Unlike the coleus, the
gynura should never be placed in direct
sunlight, nor should it
sunlight, nor should it ever be planted
out in the garden in summer ; in fact, it
does best if kept in the house all the
time. Give it plenty of water, but do
time. Give it plenty of water, but do
not sprinkle the leaves or they may turn
brown in spots.

THE FARFUGIUM.
Another plant grown for the sake of
its. foliage is the farfugium, or leopard plant-so called from the curious spot-
ting of its large waxy leaves, creamy good drainage, grive the plants Provide good drainage, give the plants a loose,
rich loam and plenty of water, and keep away from direct sunshine and in a rather cool termperature, if possible from
50 to 55 degrees. When watering this 50 degrees. When watering this
or any other plant, remember that it is
best to take the chill off the water, making it as nearly as possible of the tem-
ing Current Events.

## 

A very rich gold-find is said to have been made at Night Hawk Lake, near
Cobalt.

The New Zealand Upper House has its members.
The C. P. R. will build a ne
steamer, capable of carrying 1,50
passengers, to replace the Victoria o
the Pacific-coast service. Robert A. Pinkerton, head of th
l'inkerton 1eetective Agency, died r
cently on board the steamer Breme cently on board the steamer Bremei
while on his way to Europe.

The Pure Food Bill, introduced by
ohn Burns, and providing stringen John Burns, and providing stringent
regulations for the inspection foods, has been adopted
ish House of Commons.

Several thousand men have been
killed during the recent attacks Casablanca. The recent attacks is now unde control of the French and Spanish the tribesmen are not yet vanquished. The Transvaal Government, at the instance of General Botha, has de
cided to purchase the Cullina diamond present for King Edward. The cision is meeting with much criticis,
as it is thought that the finances the colony do not warrant the penditure, and King Eidward is in a wear his life out in attaining posses- Take a piece of
quandary whether to accept or reject the gift.

The Peace Conference at The Hague held its fourth plenary session, which has been termed the "Funeral of the August 17 th. In regard to this
subject, nothing has been done sav the passing of a motion brought i british delegation, which recommends an earnest study of its possibilities
to the nations.
Before the closing to the nations. Before the closin of the conserence, some the the fisherices
Sept. 10 and Sept. 17 ,
trouble in Newfoundland will be trouble in Newfoundland

The new owner of a Scotch shootin
eserve had piloted a number of entirely eserve had punners about, the ground. "Look here. Mac,"" he said to the
keeper, as they came back. Whe The


La Pointe Gatineau in Time of Flood.

Wear his life out in attaining posses- Take a piece of cheesectoth three fourths
sions, in living up to a fashion which he of a yard square, put a narrow hemu all
nust soon leave? Yo. You think of the way around, and cut a small hole in
all this as you sit at Rocklife gazing the center and finish it also of a hot summer day (iatineau Point iron rods cannot use obtained. if strong
$\qquad$

## The Ingle Nook

SOME RAMBLING NOTES ON OTTAWA.

## If you have ever made an extended sojourn in Ottawa, you have probably seen Gatineau l'oint. <br> You usually come upon it from Rock

 liffe, to which you whon it from rockwithout any idea of boing trolley without any idea of going to Gatineau.
Rockliffe Park is a pretty Rockliffe Park is a pretty spot, and yet
from its heights, or from the pavilion, from its heights, or from the pavilion,
you find your gaze wandering across the you find your gaze wandering across the
swiftly-flowing river to the church spire and the little houses nestling close to the water, just far enough away, and, ap
parently, just inaccessible enough-if you are a helpless fermale to make you cur
ous. The lure ous. The lure of the name, also, is up on you-La pointe Gatineau-with it,
suggestion, like a faint, old-time per fume, of two hundred years of romance
for has not the soiourn of the French for has not the sojourn of the French it
Canada, through all the vicissitudes of
$\qquad$
$\qquad$ Tright at something, the horses dashed ing, wpen each a short way, sew onto
a way, carcering up the narrow street, the cheesecloth bag, then shake the
and finally into the ice and water along feathers into it, rip off, and hank to nir
the shore the shore. There werc smothered shrieks while you wash the tick. When air
and running to and fro among the baste the two bags together poople; but two, Father Champagne, the shake the feathers back, then rip off and
village, cure, and another, kept their sow village cure, and another, kept their sew up the case. This plan will do and and vigorous measures these two man- trouble in handling the feathers. nd a distrescing the vice-regal party. Some time later the Governor-General worn out, cut the uppers off at the wid and his wife sent a chime of bells for the wear them with new edgort gloves of the to the priest. The day before the tagether and wrinkle at the wrist the
"'blessing." of the the "blessing", of the bells, Helene and $I$, wearing, so the seam will not show. The
with some others, were at Rocklife with some others, were at Rocklifte. cost will be much less than that of The Helenc went to Gatineau; I went climb- ing new long gloves.
whom you sometimes read in "The Farm- inside of a teakettle wash er's Advocate," and who was out that the kettle out every day, and put in fres day for the ostensible purpose of teaching To every time it is to be used.
Water powder parsley, dip it in an enthusiastic band of students botany $\begin{aligned} & \text { To powder parsley, dip it in boiling } \\ & \text {-and so I missed seeing the flower-decked } \\ & \text { water to make it a brilliant preen, then } \\ & \text { bells all readly for the blessing. Next }\end{aligned}$ wut it into day, so we heard, was a great day at wards it may he oven to dry. After day, so we heard, was a great day at wards it may be rubbed into tiny bits
Gatineau Point. The prest, Cham- and put away in jars for future use. Gatineau Point. The priest, Cham- and put away in jars for future use.
pagne, now slepe in the village church- If brooms are wet in boiling suds once yard, and the bells ring out over his a week they will become very tough, will
grave, and over the river to Rocklife, grave, and over tho river to Rocklif
where you may hear their music ver o Rocklife
music very
tance of a OUR SCRAP BAG. an easy ambling at it on his small farm,
gives him and his enough to eat. He all this as you sit at Rocklifte gazing the center and finish cut a small hole heard that millions of youncon we wad
 lerry you across. You hal one, and hanger upon which the waist is phaced they had reached the lower part of it. , thismoning all the people I could collect,
presently, with the twentieth-century dust cheosecloth will fall all around up. The

$\qquad$
$\qquad$ river, or work in the mills; but the where the hook is put throughly May, you know the wrinkle about without wines, aud about confronted well




THE FARMER'S ADVOCATE


Moulton College
Superior Buildinge, Equipment and 'Sdaff

- A. Hundr, B. A. Principal Voat, Mua, Doo., Muelon
SEND FOR CALENDAB

 Hair
 ELEGTROLYSIS

 Oanaabanatas.atart Como tor Treatmen
Ourran the
Expostition Auv. 26 to Sopt 9 .

 HISCOTT DERMATOLOEICAL
 61 Cousor St.Cor.LAPLuNTEAv_TORONTO.


A STRONG WOMAN Heathe,
LEE UE MusE Yo oaratuly







LADIES


WHO BIDES HIS TIME
ANOTHER LETTER FROM

$\qquad$


## Consumption



Menctil



 maid man bucem ind

 Tree, for they want every suff rer to have this wonderful
before
bere it is too late. Write today. It may mean the saving of your life.

## THE "NEW-WAY" Tuir foilad

Is the First Suooeseful Stationary Engine of its Type





 Ex colvure territiory to doalers who an
do it justice. write us for Cotelogue
CUT BHOWB RNGINE COMPLETE


THE "NEW-WAY" MOTOR COMPANY,
Brighton, Ontario

$\qquad$
fighboring farm. Finally the fom a
him, as Sam kicked at him.
Sam's wife, hearing a tremendous yell,
rushed to the rescue of her husband. When she came up the dog had fastened his
teeth in the calf of Sam's lagter holding on for dear life. Seizing a stane
in the road, Sam's wife was about to
hurl it, when Sam. hurl it, when Sam, with wout to
presence of mind, shouted
" Mandy ! Mandy! Don't frow dat
tone at de day

OUESTIONS AND ANSWERS


 the full name and adreas of the writer
ord. - In eveterinary queation. the syp.
coms especially must be fully and cleury
 not be given. reply by mail to required
to th- when ergent vetrinary or legal enquirles
Si urgit be enclosed

Miscellaneous
ALLOWANCE FOR OPENINGS IN MASONWORK Is a mason allowed all the openings,
uch as doors and windows, in laving brick? The mason laid by the thousand. Ans.-Not when he is laying by the housand. He is only entitled to pay-
nent for the number of bricks he lays. THE GROUND-HOG PEST. I have lately become a subscriber and
reader of your valuable paper, which I prize much. I am a young farmer, and
wish to ask if your corrospondent wish to ask if your correspondents can
give some way to destroy ground-hogs or woodchucks as some call them. In In
find them destructive in clover. I have now a them destructive in clover. I have
now of turnips near the clover
pasture, and they eat them for quite pasture, and they eat them for quite a
distance in the field.
C. M. Ans.-Shooting, poisoning and drownWill some reader, with experience, tell
how?
PURCHASE OF FARM

$$
\begin{aligned}
& \text { 2 wn to get the writings. A week atter } \\
& \text { he wanted interest, so I told him not to }
\end{aligned}
$$

$$
\begin{aligned}
& \text { he wanted interest, so I told him not to- } \\
& \text { day; but the lawer said he left a place } \\
& \text { for the interest ynd }
\end{aligned}
$$

## ment it. So my wife signed the agree


$\qquad$
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$\qquad$
$\qquad$
$\qquad$
$\qquad$ the same as it the agreement was settled but I intended to give him the $\$ 50$ as
I agreed in March, 1908, and no interest.
We went to see him, but ho wo
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

The watuer to sao that tho ded
mort geage are proper, and, in the
time to examine the intion or yo
generally to protect your interests
horse rubs his tail
What will stop a stallion from ruw
bing hist tail tall make hair grow
tail whero it has been rubbed out? ) Whad
will take thininess out ot stallion's legis
3. Could you recomment
3,
 knees a lititlo?
4. Ir Epoom antte good to toed to stal
lion in his oata Iton in hig oats? 7 Will it cool his blood?
If so how nuch a teod would hent mend 7 olid subscritber. sons.-.1. Firret wash well with warm Bolve one orram or corrosive sublimato io
a quart of water, part the halr nat a little well into the skin once daily, till
itchiness ceases. Also give one ounce of Fowler's solution of arsenic in feed, or as a drencb in a pint of wa
night and morning for ten days. 2. After itchiness ceases, rub in lard or sivesublimate solution, applied in corroway to the legs, will cure the itchiness. 3. See that the floor he stands on
leveli; shoe with a flat shoe; feed off floor, and blister the back cords, tying
 4. Yes, a closed handul of Epsom
salts given twice a day for a weak, in leed, will cool the blood, and may answer the purpose Lnstead of the arsenic sublimate Remember that both corrosive CARE OF ONIONS.
Through a business transaction I got an
acre of onions, about half of them are 1. Should the tops of the large onions ime? down? If so, about what 2. Should the tops of the onion sets be 3. How are onions harvested?
4. How are the sets taken up

Ans.-1. Many onion-growers break August, but the best authorities are No. No turned yellow and the tops dry, though many may be still green, onions should
be pulled and thrown into rows. Some be pulled and thrown into rows. Some
first use an implement that cuts below the row of onions. They are generally left outside until cured, which takes place
in a week or ten days. After a rain. they can be stirred genuly with a wooden advisable to cure them in open sheds. 4. Onions grown for sets, when they
have attained the proper size, are pulled by hand after having been cut under with
a wheeled hoo. They are cured outside being turned when necessary, the process BLUESTONE FOR SOW THISTLE year or so ago, sarmer's Advocate," a
bomething about using
bluestone for killing eow bluestone for killing sow thistle. How
many gallons of water should I use for
one pound of bluestone as I would like Ans try the bluestone? Bluestone been recom mended through these columns within our recoltection for the killing of sow
thisle certainly no editorially, A
spray solution of 10 pounds bluestone in 40 gallons of water will destroy wild
mustard without seriously in mustard without seriously injuring the
grain among which it grows; but bluestone is not an elfective means of com-
bating sow thistle. It is true that the annual sow thistle is more or less sengieffective, the solution would require to be be
so strong as to injure the foliage so strong as to injure the foliage of other
plants, and, even then, it is by no means
certain that certain that the annual sow thistle would
be killed outright. For the perennial sow Thistle (the more pernicious kind) at
tempts to eradicate by tempts to eradicate by spraying with
bluestone solution would certainly be a
Waste of time and materint



1382
THE FARMER'S ADVOCATE.

FERTILIZERS


THE FARMER, THE DAIRYMAN, THE POULTAY RAISER

## lloe

DR. WILLIAMS' FLY AND IWSECT DESTROYER.
-The friend of the animal. KILLE FATLIES AND MOBEOS ON
Exterminates vermin in polltry hovese.
In not jour mones will be cheertuly re:

Dr. WIlliams' Fly and Insect Destroyen
If goid in tine, in liquid form, with Red
Label. TAKE NO OTHER.
 Where we have no agent apoointed, as sam-
ple aid gallon Tin and Sprayer. Manufactured only by
THE F. WILLIAMS' COMPANY. , Mad. M.


Guaranteed
Buy Stanfield's Underwear on a positive guarantee that
If - by any chance - it should shrink, return it to your dealer and he wil refund the money, or give you new garments
Unshrinkable.

OUESTIONS AND ANSWERS Veterinary.
warts

ACTINOMYCOSIS-LUMP JAW.
Two-year-old bull has two large, hand
 they are not attached to the bone. Cow,
six years old, has one lump of a similar
inature six years old, has one lump of a similar
nature and position. Is it contagious?
How is it caused?
Ans.-Actinomycotic tumors are not alAns. - Actinomycotic tumors are not al-
Ways attached to the bones. I am of
the opinion your cattle both have the
disease. The tumors can be dissected
out by a veterinarian, or, in all probability, reduced by the iodide of potas-
sium treatment. This consists in giving the drug triee times consists in commencing
with dram doses and increasing the dose daily, by, say, 20 grains, until desire for and saliva from moil, tears run from eyes scrufty. When any of these skimptoms ap-
pear, cease giving the druc. pear, cease giving the drug. Treatment
can be repeated, ir necessary, in two
months be repeated, if necessary, in two raise any. What has been the experienc act well to rub the tumors well, once less with this breed in this respect, an
daily, with an ointment composed of
dram drams each of iodine and iodide of the quality of mutton as goond, and d
potassium, mixed with two ounces vase- the markets buy them as readily as other
lines ine. I Would not consider it wise to breeds?
keep this bull for stock purposes. The
dise disease is caused by the spores of the Ans.-We do not know from personal
disease, which often exists on the foord. obseration, but it has been claimed by






## ,

 A oats received branch of the sampled of with fairly-plumpkrain. The the fill grain. The other was not so good. Both
are more or less anfected with th tid are more or less afrocted with the blight,
which has perplexed the scientists this year, though not so badly affected as
many other samples sent us. DRIED BEET PULP Can you let me know the value of dried
beet pulp for food? How does it com pare with bran? C. W. B. Ans.-On page 521 of "The Farmer's
Advocate," of March $28 t h, 1507$, Frank
T Shate T. Shute, Chemist, Experimental Farms, beet pulp with bran and shorts. According to his analyses, the composition of
these three commodities stands as fol-
lowa these three commodities stands as fo
lows :
Protein. Fat.
 Without venturing to state that th
relative feeding values relative feeding values compare precisely
according to the chemical composition, it
is sefe to assume that the dried beet puln is safe to assume that the dried beet pulp
although a feed of some considerable value, is not by any means equal to bran PROTECTING SHEEP FROM LARGE VS. SMALL SILOS.



detail-and each improvement is carefully considered and tested before it is adopted. Whenever an idea presents itself, that will make Tudhope Carriages easier in running, stronger in construction, smarter in durable style, more satisfactory in every way-that idea is developed and proved.

Little wonder then that people, all over Canada, find such thorough excellence in Tudhope Carriages.

They save you money right along-for repairs are few and far between.
The trimmings don't rip off-the mountings keep bright-and the paint retains its brilliancy through rain, snow and mud.

Tudhope Carriages are put together to stay together.


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 FOR THE EXHIBITION$\underset{\text { FARE }}{\text { SINGLE }} \$ 3.40$ LOW $\$$ monday, august 26. TO specialexcursion days SATURDAY, SEPT. 7. AUG. 27, 29, AND 31, inclusive SEPT. 3 AND 5
all tickets good to return until tuesday, beptember 10
SPECIAL TRAIN SERVICE
Ask for free copy of Official Programme and Time Table. W. FULTON, City Agent, London.


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Woven Wire Fence.


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 Atrong lots. Look up our thalle on Exhibition Grounds.
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Storage tanks for any purpose
Heavy galvanized steel. Strong Heavy galvanized steel. Strong
and rigid-every joint soldered and rigid-every joint soldered
For stock, storage of grain of For stock, storage of grain o
house cistern. Made any size Reasonable prices. Write now for free circular and prices. Bound to please you or money
baok.

STEEL TROUGH \& MACHINE CO, No. 1 James St., Twoed, Ont.

## Linden Oxfords

We have a nice bunch of rams,
two-year-olds, yearlings and ram lambs for sale. sired by choice
imp. Royal-winning ram
R. U. HINE, DUTTON, ONT.

Adveriss in the Alvocate

## The Cause and the [ffect

As the making of good bread depends as much upon the flour you use as the ability of the cook to
bake, so does the manufacture of telephone apparatus base, so does the manufacture of telephone apparatus
depend for perfect:on as much on the quality of ma
chinery as the competency of our workmen.

Our machines are of the most improved and up-
to-date type, and they are looked after and made to to-date type, and they are looked after and made to
do their work by the most able machinists Canada can produce, which is saying a grest deal.
The natural result is that we put out only such apparatus as the strictest inspection can find
Yon will need a telephonic mommunication in your locality very shortl, and it will be profitable for you to write or call immediately. "Do not put off
till to-morrow what you can do to-day
morthern elec ric and manufacturing company Cor, Guy and Notme Dame 8 ts., Montmeal. 181 Bannatyne Ave., Winnipeg.

## Farm Laborers Wanted <br> WORX harvesting for 20,000 MEN IN MANITOBA ALBERTA AND BABKATCHEWAM

## SPECIA \$12 Tillit $\$ 18$

GOING DATES

$\qquad$
Aug. $27 \begin{aligned} & \text { From Toronto end ell stations wost in } \\ & \text { Qrand Trunk Ry., Toronto to Barnia }\end{aligned}$
Sept. 44 From Toronto and east, to and Including Sharbot Lake and Kingston, From Toronto and east, to and Including 8harbot Lake and Kingston
alos north of coronto and north of Cardwoll Jct. on Q.T.R. and nort
of Boiton Junction on Can. Pac.
one-way second-class tickets will be sold to winnipeg only
Roprooentative farmera, appointed by Manitoba, Saskatc
will meot and engas laborers on anrival at Winnipeg.
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 1 st, at which time we can take care of all enquiries. Your dealer will handle it. If you have never seen it, write us direct for sample and descriptive bookle

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Morning, afternoon and evening, while the Fair lasts, every visitor to the Manufacturers' Building will be admitted to a free Berliner-Victor concert. This continuous concert will be a musical treat that no lover of music can afford to miss. You will hear Caruso, the greatest singer in the world. It would cost you $\$ 5.00$ a seat to hear this greatest of all singers if you were fortunate enough to be in New York during the opera season. Besides this, there is all the popular music of the day, all the latest coon songs, band and dance music, comic songs, side-splitting stories, and funny dialogues; hymns and sacred songs, violin, piano, 'cello and other musical solos reproduced by the wonderful Gram-o-phone.

You will get more genuine enjoyment and real amusement here in half an hour than you can get anywhere else in a whole day, and without costing a cent. Here will be exhibited every kind of instrument, manufactured by the Berliner Gram-o-phone Co. of Camada, Limited, and the Victor Talking Machine Co.

WE HAVE A FULL SUPPLY OF RECORDS OF ALL SORTS, FROM 40c. TO \$5.00.
This advertisement won't appear again, so cut it out to-day, bring it to us in the Manufacturing Building at the Exhibition, and receive a Berliner souvenir free

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For years at the leading agricultural fairs has been salted with WINDSOR SALT-that FINE, DRY, PURE, CLEAN Salt-that all-salt, strong-salt that never cakes, but DISSOLVES QUICKLY and WORKS IN EVENLY.

Windsor Salt betters the butter-and KEEPS it better
You can find no other Salt so economical-no other Salt that goes so far, or does the work so well. Every grain of

## WINDSOR SALT

Is a perfect crystal - fresh in savor as the hour it came from the salt-well. It gives a delicious taste to butter-so subtle you do not think of SALT, but only of the delicate, satisfying taste.

Make up your mind-now-to no longer spoil your butter with coarse, bitter, badly-put-up Salt-use what has helped the prizewinners to win-what's not good enough for them is not good enough for YOU

Windsor Salt OUGHT to cost more than other brands-but it sells at the same price.
This perfect Salt is also best for table use
Ask Any Dealer.

Maciononald, Fraser \& Co, LIMITED.

menerix mporant

Pedifree Abordcon-Angus and Clydoedala Hortie and
IN SCOTLAND AND IN ENGLAND. 203 Pedisfee Abereleer= Angus Cattle.
Tuesday, 10th Sept., next, a Lewes, Sussex, dispersion sale of the
valuable and highly-bred herd of Aber-
deen-Angus cattle beelonging to Sir Jame deen-Angus cattile beelonging to Sir James
Duke, Bart., of Laughton, numbering 50
Duke, Bart., of Laughton, numbering 50
head. Tuesday, 17th Sept., next, at
Advie Mains, Strathspey, saie of a very
select portion of the celebrated herd ot Aberdeen-Angus cattle, numbering
head head, belonging to Colonel Smith Grant,
Auchorachan.
Wednesday, 18th Sept., next, Wednesday choice lot of highly-bred Aberdeen-Angus
cattle, numbering 51 head belong ond cattle, numbering 51 head, belonging to
Mr. Cran. Thursday, 19th Sept., next, at Perth Auction Market, Perth, great, \&ale
of 70 pedigree Aberdeen-Angus cattle, in-
 Chalmers, of Aldbar, and the entire herd
belonging to belonging to Mr .
numbering 27 head.
60 Pedisfree Glydesdale Horses Tuesday, 17th Sept Ferth Auction Market, great nale of 80 high-class pedigree mares, fillies an
foals, entire colts and stallicns, from
number st number of celebrated breeders, including
a very select lot of 20 horses from tho celerrated stud belon
Harviestoun Castle.

## 545 Pedifgree Aberdeenshime I

 Tuesday, 8 th Oct., next, annualjoint sale of this yenr's joint sale of this year's crop of bull
calves rom the world-renowned herds be-
longing to Mr. William Duthie. Collynie longing to M
and Mr . Joh
ing 85 head.
Two Days Sale of 330 ShomtWednesday and Thursday and 10th October, within the Agricultural Hall, Kittybrewster, Aberdeen, great
two days' sale of 330 choicely-bred Shorthorn cows, heifers, bulls and bull and
heifer calves, belonging to the most
eminent breeders in Aberdent neighboring ccunties.
Friday, 11th Oct. Friday, 11th Oct., at Mains o
Sançuar. Forres, sale of the greater por
tion of the famed herd of Shorthorns be longing to Messrs.. Law, numbering be
head. Friday,
sale of a very select., next, at Forres
lot of sale of a very select lot of Shorthorns,
belonging to several well-known and
fءmed breeders in Ross-shire and InverSaturday, 12th October, next, at Perth Auction Market, Perth, highly-im-
portant sale of 80 high-class pedigree Shorthorn cows, heifers, bulls, and bull and heifer calves, from a number of
famed breeders..
The auctioneers will be glad catalogues of the above sales on applica-
tion, or to exectite commissions for the

Macdonald, Fraser \& Con, Limited, PERTH, ECOTLAND.

Jemien Ineuncis Fifty buzhele winter wheat to the acre
The femoue
Pincher oreet
Distrifet Irrigation unneooessary. Froer Dilitr and
olevators in the town. For further in
formation write
AMB ROSE, Real Estate Asent Land from \$o to $\$ 30$ per pore. RIVERSIDE HOLSTEINS



LIGHT AGRICULTURAL MOTORS. ". What we want for farm purposes keep moving, from something that will
day after daylight to dark day after day, and week after week,
To get this, we must have the smallest number of working parts pmas-
sible, and these of a strength that
will allow of the sible, and these of a strength that
will allow of the utmost power of
the engine being developed before giving out. Sing developed before
at this, we shall have arrived will have the necessary a motor that
one that wion, and one that will weigs in the neighborhood of four or five tons, which, car-
ried on good wheels, of large diam-
eter and width, will? eter and width, will? be none too
heavy for general farm. work.
"Next comes the question, from What are we to obtain the from
power
 etc., has smoothed the way for thing production of a light agricultural
motor sene or alcohol; and if one is to keroteve all that is written in the in
terests of the internal-combustio runne, certainly steam is out of the To-day, with the exhausting writes: upon the farm, with scarcity of fuel and with the necessity for fast work,
the motor is mucl needed. Its pre
decessor, steam. having prent efficient for such uses, is froved in
disrepute, leaving ing free way for the
gasoline engine. gasoline engine, free way for the
Father believe it,
funct Steain is by no means de funcl.
It would be impossible, in this
article, to go fully into the pros and
cons as between steam and gasoline.
Suffice it to say Suthice it to ween steam and gasoline.
claimed the main adrant claimed for the gasoline engine are :
Its being. ready for use ts being ready for use at a mo-
ment's notice ; it can be stopped at
nce without incurring

## a teain and teamster; a a lighter for chine may be obtained for the power

 developed, it is more economical infuel, and only one man is required
for its manipulation. tages can only tee fully claimed adva
comparison with the ordinary hig engine, but what about the
high-pressure steam tractor, motor
trucks. trucks, etc.? We have also the
steam automobile coming out the steam automobile coming out vic-
torious against all comers. Steam
has an elasticity that cannt tained with gasticity that cannot be oob-
hol, and the detrol or alco-
arricult agricultural engine are very elastic.
Steam has, so to speak, been aster
for some Sleam has, so to speak, been asleep
for some time past, but there is an
awakening taking awakening taking place. Great de-
velopments have been made in the
boiler which velopments have been made in the
boiler, which has been the drawback
to the to the more extended use of the
steam motor. Pressures from 300
to 5010 pounds are now carried to 500 pounds are now carried uith
absolute safety, and the necessary
working pressut serven or pressure can be obtained in minutes from cold
water. The weight has now been reduced that a beight has now been so
ing off 30 horse-power not weigh more than 350 or does 400
pounds. The feed is automatic pis also the liquid fuel, which may be
either gasoline, kerosene or alcohol.
The engines havo been

the best results upon the farm. gine, gasoline, kerosene, petrol, alco hol and suction gas; for the genera tion of steam, we have coal, wood straw, gasoline, kerosene and alcohol less than four of the fuels that no tainable upon the farm, viz., wood straw, alcohol and suction gas ? How
long is he to continue wasting a suf long is he to continue wasting a sufficient number of units of heat to do ing, threshing, heating and lighting ? It is merely a matter of economically transforming the various wasted products into a condition most suit-
able ior combustion. He will then
ab be no longer at the mercy of oil trusts, subject to annoyance from
coal strikes or inefficient transportacoal strikes or inefficient transporta-
tion. necessity much capital is made of the necessity ior a team and a teamster.
If these small motors, as some would have us believe, are to entirely wipe
out the horse from the farm, there might be something in the cry there farmers are not wishing for the doom of the horse. On the contrary, they
are looking for him to bring more are looking for him to bring more
grist to the mill. He will always
have, or sholl have, or should have, a few brood
mares upon the farm. Then, the the separators to run, the sheaves to
haul, and the fall is he to have motors to carry a
this on at the same time? Then what about hauling grain to the el
vator with two or three on the ground ? But if the of sno
for a team and the for 'a team and teamster is such
serious matter, even this can be cut
out, for there out, for there are now light stear
tractors capable of hauling 8 to
tons, at a speed of tons, at a speed of from 6 to 8 mile
per hour, carrying fuel fuer hour, carrying fuel and water sul "But what are these small motor
to cost? is the next to cost? is the next and very impor
tant question. Judging from the
conversation conversation the writer has had wit many farmers and others, there
likely to be some disappoint for, generally some disappointmert
that a light agriculturs expecte should be bought for anything be
tween $\$ 500$ and $\$ 1500$ moto amount, a machine that will displace
two, three or four of our hors teams. Why, a good team of four
horses is worth to-day about $\$ 1,000$ horses is worth to-day about $\$ 1,000$
Then, there is harness, etc. Say
that a 25 -horsent that a 25 -horse-power motor dis
places only two four-horse teams
they would wio they would, with harness, be teams
over $\$ 2,000$. pect that an eng be reasonable to ex pect that an engine which is to sup
ply universal power upon the farm
should be suld ply universal power upon the farm
should be sold for less than half the
price of an ordinar price of an ordinary traction engine
of the same power, and only able for threshing, and only avail
The motors thus The motors thus far introduoed into
Canada range in price from $\$ 1,750$
to $\$ 3,000$, for from 18 to horse-power. Even at these prices,
provided they will do the work with greater dispatch, reduce the number ied when idle, and diminish the num
ber of hands necessary upon the no small benefit will accrue the far .. But where are we to obtai
these motors? From all account the demand is in excess of the sup
ply. Here is an industry for ply. Here is an industry for the
Canadian manufacturers to take hold
of, and they should wasto Con, and they should waste no time
in doing so ". Statistics given for 1906 go to show that in Western Canada alo to
some $7.225,347$ arres were cropped
with rither wheat, oats or er cent of the arable land ava
ble. From the acreage atove me
oned some 198,243 non

KIDNEY Tho kideyen torm C

 boord
The kidneys are often affected and
 Ooat beforo the eyes, the urine containg triniok-dust sediment, or is thick and hen there is anything wrong, with rict mall of the back or the urinary organe ben the kidneys are afeeted.
If you ara troubled with your kidneys

## DOAN'S

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 PILLs, and now I do not feel any
 something I could not do before.
Price 50 conth Price 50 conts a box or 3 for 81.25 at
all dealers, or The Doan Kidney Pill $C 0$,

Ogdensburg, N. Y. Fair and Horse Show SEPTEMBER 24, 25, 26, 27, 190 z

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Curangemonat have been mado with the $\mathrm{U} . \mathrm{s}$
 R. J. DONAHUE.

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| :---: |
| $\substack{\text { from Edmonton } \\ \text { Northern R. R. }}$ |

## WINTER FAIR

## 논

Dec. 9th to 13th, 1907
0 a weotruvetr mex, romome.
Please Mention this Paper

AUGUST 29, 1907.
mount to no less than $36,126,735$
cres. Add to this the haulare he grain to the elevators, and some nea may be formed as to the enormous mount of tractive lorce and beltork, and this in but a very limited orking season.
"Year by year the areas will inrease by leaps and bounds, creating motive power. Can this be supplied by horses as economically, or can we raise a sufficient number to do the work, and at the same time keep our world supplied? ? Thotors, the more . The more motors, the more industries ; the more motors, the have he snaps; the more motors, the anger wil be the amount of marketwill not be eating their heads months

GOSSIP.
At the annual sale of Oxford Dcwn
rams, from the well-known flock of Mr. Eng Treadwell, at Upper Winchenden, price obtained for tho 59 rams sold was
$£ 2215 \mathrm{~s}$. The first 22 made an aver of £38 10s. The highest price was 150 guineas, paid by Mr. J. T. Hobbs for
No. 5. The late James McNeil Whistler, the
noted artist, was standing bareheaded noted artist, was standing bareheaded in
a hat shop, the clark heaving hhat shop, the clark heaving taken his
hat to another part of the
comparison. comparison. A man rushed in whith his
hat in his hand, and, supposing Wher
be a clerk, angrily. to be a clerk, angrily supposing Whistler
o., See here," "e said, "thionted him. fit." Whistler eyed the stranger critically
from head to from head to foort, and then drawled
out: ". Well, neither does your coat. What's
more, if you'll pardon my saying so, T'll be hanged if I care much for the color
of your trousers." Mr. George D. Fletcher, of Green Grove Stock Farm, Binkham, breeder of Shorthorns and Berkshires, in
ordering change of advertisement. write $\because$ Owing to having quite a number of Joy of Morning heifers in my breeding
herd of females, I have at last decided herd of females, I have at last decided
to offer for sale my noted Duthie-bred
stock bull, Imp. stock bull, Imp. Joy of Morning, which
is now in almost show very fresh and active. My Yorkshires I
now have to offer are a mory and comprise a chaice lot of ochowse lot,
to imported boars, and a num, smooth, growthy boars ready for service.
All these pigs are direct from impor
tock on stock, on both sides, and, will be sold Messrs. Mac Campbell \& Sons, Har-
wich, Kent County, Ont., breeders Leicester sheep and, Ont., breeders of
write: "Our sheep are comsey swine the summer in good are coming through those fitted for show, we shall not ex-
hibit this fall. At six fairs in 1906 . Western Ontario counties, we won mor
first-prize red tickets than petitors combined. Our Durocs are doing
well. Have about 70, from six weeks to
four months obld, to sell four months old, to sell. Our last week's
qales were one boar and two sows to
State College Farm. Wod A.; one boar and sow, to Jas. Mcherson,
Axe Lake, Ont.; boar and sow to Wm. Axe Lake, Ont.; boar and sow to Wm. T
(ireen, Rankin, Ont.; one boar to M. A.
Prener Paterson, Comber, Ont."

TRADE TOPIC
ALMA COLLEGE, ST. THOMAS,
ONT.-The Alma Daughter
Societies, of
st. Thomas, London and Toronto, in be asked permission to have erected at the main entrance to the college grounds
Jubilee Memorial gates and fence. The societies have already made contract,
with a London firm amounting to $\$ 1,200$ and the work of erecting the gates w,ll
be begun at once. Mrs. Jean Wylie
 will return to Canada in time for the


Ontario Agricultural College, Guelph, Can.
WILL REOPEN SEPTEMBER 12, 1907.
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Catalogue, together with application forms, may be had for the asking.
G. C. CRELLMAN, B. S. A., M. S., President.

## Selected Land in <br> Saskatchewan!

We have made arrangements with a reliable land company to handle a large block of carefully selected land in Saskatchewan, in the neighbor hood of Jack Fish Lake, near Battleford.

Immigration is going into this district rapidly.

This land is bound to advance in value very fast.

If you want land in the West for investment or for a home, this is your opportunity

Very smanll cash payment necessary
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 LONDON CONORETE MAOHINERY CO,


Maple Syrup Makers, Attention


Soid wick


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 $T H E$ animm mea, comp 68 Wollintiton strent Momitran,





 When Writing Weariton Adrocato

## SHO <br> W-RING POINTMER

Conformation in an animal is the result of BREEDING, but eize is decidedly the result of FEFDIN

Many exhibitors, in their anxiety for the former, lose sight of the latter with the result that often an inferior animal carries off the honors; but notice that those who FEED CARNEFAC always turn out animals with plenty of size, the desired smooth flesh, and the healthy, glosey coat. This is why CARFEFAC is recommended by all the BEST STOCKMEN. No or sHow proven its equal. Do not forget this in preparing your stock

Use Magical Healer for galls and new cuts.
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SMITH \& RICHARDSON, COLUMBUS, ONTARIO
CLYDESDALES
We have imported more Royal, H A. S. Toronto and Chicago winners than
any other Canadian importers. This year's importation has just $\begin{aligned} & \text { errived }\end{aligned}$
 GRAHAM BRO8., CLAREMONT, ONTARIO Long-distance 'phone. C. P. R ADVERTISE IN THE ADVOCATE
 $\underset{\substack{\text { Mr. W. D. Pugh, Claremont, Ont., who } \\ \text { Idvertises Clydestales and Shorthorns in }}}{\text { Cly }}$ this paper, writes:", I am orfering one
three-year-old stallion, got by the cham pion, Macqueen (imp.). This colt is one
of the big, growthy fellows, cne that will
 ported crosses. I am offering some Short-
horn bul calves.
from
eight
conths old

 ing the public demand of of cood decucongizon-
al attracticns, has, this year, with the chive co-operation of the franciers the
the generous ocntriutions of the

 offered for all cash and sliecial prizes so that a larg hibiting their dogs should apply of exSecretary,
ugust 31st, entries Mr. J. W. Sangster, Secretary of the
Hydesdale Horse Associantion rites us: "I take pleasurue in informing nd Irreland itsociation of Great decided to compain an the situation raised ty the passing
the late ammendment to the constith Canada, demanding that all association Fation in Canada, to be eligibible for reotedisook. By the amendment. stasdlions Stud
an
lises are now given numbers in the Scot
sh Studbook sh se now given numbers in the Scot hated upon the accomplishment of ctory situation. All fillies imported in

## The "Capital" Is $\$ 40.00$ A Year Better Than Other Separators

ESTS made by dairying experts show that the average cream separator leaves 0.054 That is the average loss you can expect from With age machine.
W 6.7 center at 25 cents a pound, that loses you 6.7 cents on every 500 pounds of milk you

But the Canital Separator ski trace; and its average loss is only a mere cent.-pretty nearly six times as clear as the average machine skims. On every 500 pounds of
milk that saving amounts to $51 / 2$ cents (\$o.0547 exactly). Figure it out for yourself and see. Now the Capital machine, although its bowl is the lightest, and its gears the easiest-turning, easily
handles 500 pounds of handles 500 pounds of
milk an hour. Run it two hours a day, and it will


> Do You See This? The average cream separator loses .054\% butter fat. The Capital loses only .or\%\% Therefore the average machine loses 4.3 oz. butter in every 500 lbs. whole milk it handles. And the Capital loses only 8/toths of an ounce. With butter at 25 cents a pound, Capital's gain is the difference between \$o.o124 and \$o.o671, or practically $51 / 2$ cents for every hour the Capital runs against the average machine of similar capacity (500 lbs. an hour). Machine. If that isn't $\$ 40.15$ cents a year, what is it? If you don't think that is possible, or if man says it isn't write to me and I will prove to me and I will prove
it to you. write an pie me what Address.

## THE

The reason for this big difference is the Capital Wing-Cylinder, - the 7,ooo-revolu-tions-a-minute Skimming Device that whirls the fat out of the milk almost drop by drop This device is the one that handles the ream and the milk only once,-doesn't mix and lose ath with each needless mix , as the have to do , and the Capital machine with its $3^{1 / 2}$ ound bowl (the Lightest Bowl there is), and its perfected, simplified easy-running, gearing, a horse to keep it running uniformly fast enough, as you have to do with the Average Machine and its old-fashioned gears

Nor is there any backbreaking lifting, sloppy, mussy, high-up milk tank about the Capital machine. Its milk-tank stands on the floor,-the Only Really
Low-Down Tank there is Look at the picture of it and see how easy it is of fill see how easy it is to fill.
I will sell you a Capi tal on terms so easy the machine will buy itself before you realise it. than the Average Tell me how many cows you keep, and what their yield is, and I will tell you just how quick a Capital will pay for itself on your farm -and what it will actually earn you, in . I will prove every word I say if you will about the Right Way to get More Money out
of Cows.

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HOW TO BUILD A GOOD FENCE


(2)

MONEY IN CAMARIES

 $C O T T M$ BIRD'SEED SABEthurt Et. London. ont



Spring Brook Stock Farm TWill oxhbil Holotains sad TMworth at







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Highest－grade STEEL HARROWS，both in Sections and Flexible． Our Far－famed PEA HARVESTERS and BUNCHERS．
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the slinge


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Money Saved is Money Made．Our make of farni implements Save Time，Labor and Strength．Therefore，Save Both Money and Muscle．OUR One Price，and that THE LOWEST．Send for Catalogue and Prices．

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SUBSCRIBE FOR ADVOCATE．

GOSSIP．

 Ceamers，Corintian and Athena，sailing noted by the Scottish Farmer： Massrs． ．Graham \＆Rentrew，Bodfora
Park，Ont．，purchased eight or nine colt and fillies，chiefly from Mossrs．Mont
romery，but also to some extent Peter Crawford，Dargavel，Dumfries，
along with several Hackneys． than whom thaere is no mo better judge Canada．One of their 1 lot was a four
year－old stallion，by Sir Simon（10465） the noted son of Sir Everard，which
twice won the llasgo premium and
and other district premiums throughout the the
country．They had two－year－old colts，by Baron＇s Pride $(9122)$ and his goor breed
ing son，Baron Hood（11260，as well as ing son，Baron Hood（11260），as well as
yearling colts by the lateor Another
vearling colt is iny the Royal champion yearling colt is by the Royal champion
horse，Refiner（12301），a son of Baron＇s
pris． Pride，which also won district premiums
and a two－year－old filly is by Baron＇s Fashicn（10973）．which bred wery well in
Cumberland The Cumberland．The dams of two of these
horses are got respectively by the $\varepsilon 1.300$ horses are got respectively by the ${ }_{c}^{\kappa 1,300}$
horse，
Lord
Colum
Edmund
$(9182)$ ， which wor the ellamgoo premium，and the
big Prince of Wales horse，Crown
and Feather（8559）．The two twown and
colts bought from Mr．Peter Craverord
crard are got by the big premium horse，Lothian Again（11804），and Mr．Taylor＇s famous stud horse，Sir Hugo（10924），whiale the
dam of the latter colt is by Sir Simon dam of the latter colt is by Sir Simon，
to which reference has already been
Messrs．Smith $\&$ Richardson，Columbus．
Ont．，had a big lot of
 Netherhall and Banks，Kirkcubbright，and
Mr．Peter Craw ord，Dargavel，Dummtries． From the frrst－named frum they had about
a dozen head．A capital Canadian horse
was was a big three－year－old，got by that
goocl－breoding，big horse，Hillhead Chief （10774）．out of a maro by the cham－
pion Baron＇s Pride．Another of the same

 olds were got by the best breading young
horsses in the country，such as Everlast－ ing（11331），which was never beatenan，and
his hall－brother，Baron Mitchell（ 10688 ）．
 premium horse．One of the Everlasting
colts is out of a mare by the Highland and Agricultural society che Highonand
horse，Prince Thomas horse，Prince Thomas（10262），while his
grandam was by the celebrated breeding grandam was by the celebrated breeding
and
and asgow－premium horse，Lord Erskine
andit） and
（17444）．The oots by Everlasting and
Baron Mitchell are out of Macgregor miares，than which there could be becregor bet－
ter breeding．
Besides these，Smith Richardoon have two horses by the cham－
Rion Baron＇s Pride himselt pion Baron＇s Pride himself，one of them
being out of
$(7135)$ ，with ar arandar by prine Robert
by Darnley $(222)$ the every best of of reeeding；While the other
is out of a mare by Sir is out of a mare by sir Everard（5353），
the best breeding horse of recent years，
und sire of buron＇pride Sir He many other great sires．Of of inforent
breeding is an older horse，by the caw－
 ithe most successful show horses ever
known in scotland．Two yearling fillies．


 Smith \＆Richardson had seven ste，Ont．fied old lady the who final poles like a dilgni－








had a high－class shipment of 15 hiruld
ten stallions and five fillies，from A．\＆W．Montgomery，Netherhall Banks，Kirkcudbright．Amongst these
ne of the most successful shot the present day，got by the champiof prizes at the leading spring winer of first well as second at the $H$ ．and A．S．as hard to beat in a Canadian show－ring bo he H．and A．bred two－year－old is by Chief（10971），out of a well－bred mare by in the north，of the same age，is but a mare by the H．and A．S．first－prize horse，Moncreiffe Marquis（9953），while
his grandam was by the his grandam was by the equally weli－
known prize horse，Mount Royal（8065） Che sire of the Cawdor－Cup champion， same age，is by the well of the Beaulieu，and out of an uncommon Whered mare in the Drumlanrig stud． the H．and A．S．champion，Prince Colts by（10262）．Besides these there are sire of the Cawdor－Cup champion，Oyama， Sir Humphrey（11142），（the sire of the land）， Baron Airies
（12018）， Mitchell（10688），referred to above，and Gay Spark（11724）．The fillies are and by Barcn＇s Pride（9122），himself the sire
of most of the sires already named；The Dean，which bred very good stock in Clackmannan，and the champion Prince
Thomas（10262）．（Gramam Thomas（10262）．Graham Bros．have
been long in the trade，and the horve seen long in the trade，and the horses
shipped last week have been selected Mr．Wm．Graham personally to meet the

SCottish sheep－dog trials． From the Scottish Farmer we quote，in
part，the report of a sheep－dog trial at the West Linton Show，on August 10th： called upon to give the opening exhibi－ son of the celebrated old Frisk signal was given，and Ken was breasting The hill．He took command of his sheep
（five in caution，number）with great ease and
pole then flanked them tow pole in perfect style，and towards the thercin lies the art．He came up to the tor
shed without hurry soon the marked two or excitement，but mination not to be separated from their mates，a resolution which only quick and
lever working trong working could overcome．Scarcely tardy in checkmating the men was too his charge，nor did he with sufficient his master．Still to the directions a an opaster．Still，he worked well，and was effected．He now faced ap to the
ven with the air of meost dithe the air of one who felt that the
murmise them in，and then dirisected for he coaxed between the closing polesed them though
were simplicity itself fondrew Brown，Longcroft）old Mow slipped Was not only beautiful，but worderfully
wise．The first pole point tho turns at the shed points and steady． threw herself too far ouce or twice she
to catcr the forne
ness seemeng of her charge．Lame－ shed once forirly entered upco for sut the ealed all her former skill，holding firmly
up to her lot，and ign of her lot，and responding to fevery venned cleverly，after This completed，she
of thich she walked
 Csturs．Tom and and he repution of his
siastically applauded were alotist to the closing scen as they pasen－
The juded their awards as and


## eotiviror Shorthorns 'minn Salem Herd

 At the Leading Fairs of 1907 J. A. WaTt, Salem,Elöra Stations, G.T.R, and G.P.R.R.


Injure Themselves.




 aboundance of fresh water. TThey are
clean, wont rust and omate the that
water can't slop over the edges.

mitral shinglik a
PRESTON, Ont.

## The Railway Call  Central Telegraph School, B Gorrard St., Eant, Toronto. W. H. Shaw $\underset{\text { President. }}{\text { Sin }}$



## GOSSIP.

Messrs. Robert Hunter \& Sons, Max
 been better this year than ever, and we
have eotd a large number of Ayrshires all
over over Caiada and the Vnited States, and
some to Japan. There is no doubt Ayrstill have on hand one of the best lots we ever owned, and we are offring
special bargaine on bull and heifer calves special bargains on bull and heiter calves
in order to reduce stock sufficiently for
ointer winter quarters."
$\underset{\text { Mr. D. Mile. Ethel, Ont., on the }}{\text { Malmers. }}$ T. R., writes: My stock of im
ported and home-bred Scotch Shorthorns have done fairly well this summer, al though pasture has ben rather short. I
have a number of very choice calves of have a number of very choice calves ol and two-vear-old heifers, and young cows
that would make good show material, the
 (imp.) $=55002=$, the best stock bull $I$ ever used, and that, is sasing a good deal.
The others were gct by Scotland's Fame he others were gct by Scotland's Fame
(imp)
$=86084=45255=$ and Red Duke (imp. qually (77585), and other bulls of equally good breeding and merit. But,
as I have been breeding Shorthorns for it, and have no help. I will own old at the 64 haed on haten wit owest any of
and on terms to suit buyers, as I I am anxious to reduce herd at present, and
may make a dispersion sale about November next."
 Canada's leading breeders of Jersey cat
tle, whose herd now numbers some wo, whose herd now numbers some the noted St. Lambert strain, at head of which are the richly-bred stock
bulls, Golden Fox of Dentonia, a son of the great champion, Arthur's Flying Fox (imp.). dam the noted show cow, Brunette (imp.)., for whom Mrs. Massey has
refused
$\$ 1.500$ of Linden Grove, by that creat hul nue bell's bsiue Fox; his dam, Blue Bell: is said to be the greatest ccw ever im-
ported into the United States.
Here are not only a grandly-bred pair of stock
bulls, but they are show bulls trom the ${ }^{\text {bround }}$ up, and, judging from the youngsters now coming on, they bid fair to be be
soon among the most noted sires of this continent. The herd, taken anto through,
are an excentionally large, strontc-onst) tutioned Targe, well-balanced udders, man carrying Lambert's Ada is milking a 42 los. a day. Chat, by the Government standard,
equivalent to 19 Ibs. of butter in 7 , Others are doing still better. One, Mau gave 22 Ith. on milke morning of our visit
of crast month the test
of cram, on the wasis of which the of cream, on the basis of which the price
is fixed. showed the enormous percentape
butter fan as 30 for anicerthern wherd grees producers of a a very
$\qquad$


 sation, tovernorey cow. "whes sen the de
orders
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lat volume
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could be shl
preponderan
coming
sult Mr.
.
it and report

## Pratts, ${ }^{\text {STOCK }}$ GUIDE

Fial hints for stock raisers rita


IN COLIC IS DEATH
Thousands of Valuable

Colic alawys de mands
prompt meayres to save the
animals fife animal's life
Many a $v$ Many a valuable horse has
been lost while somer searched for a doctor or or be-
cause the dealer had cause the dealer had no rem-
edy to offer. 1 Iakenochances
oflosing valuable of losing valuable stock
from lack of a handy
 the most famous disd
tricts in the wortd
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and Europe have bee ser and Europe have been search
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Order a Bag
 keep the flock up to the highest standar by the purchase of the best importe rams obtainable. The shearlings offere are got by a Hobbs ram, which was first
at the Royal, first at the Bath \& We of England and several other shows
Fngland.
Besides, the was first shearling 1904. They are an exceptionally typical
bunch, beautifully covered bunch, beautifully covered. This year
crop cf lambs are the get of the second prop of lambs are the get of the second
prize Toronto winner in 1906. He is
vell-built Neavi-bult and well-covered ram, and uniformity of typress of covering, form en . ports from recent sales state that nur
chasers are well pleased with the stock and if it be an Oxford Down that is
wanted, Mr. Barnet can supply the ght
sort in breedine sort in breeding, type, quality and sive Mr. Hudson Usher, Queenston, O
three miles from Niagarn Falls. breecers of Shom Nharnsara Falls, a noter . I hav
to report the sale, to Mr. James Gibl Brooksdate, Ont.o of our herd bull, Queenn
ston $A$ rcher $=48898$, a hick masien mossy-coated
(imp.).
dam,
dam, sired
Veronica noted winner and sire of winners, Brav
Archer (imp.), and of the same fanily the great show bull and sire. Choich
Goods. Quenston Archer is one of the best individuals in use in any Canadian
Shorthorn herd at the present time. His
sire sire is one of the suncothest big bulls
that has been imported, and his dam is
 one of the best in the country, we ex
flect more show stuff from it in the ncar
future Mary's, bought the ten-months-old st. calf, Queenston Archer 3rd, a red roan
got by Queenston Comct a $62086=$ (a
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GGUST 29, 1907.
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 Kendall's Spavin CureBone Spavin, Ringbone, Splint, Blood and Bog Spavin, Thoroughpin,
Curb, Capped Hock, especially if of long standing and obstinate-will Curb, Capped Hock, especially if of lon
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KENDALL'S SPAVIN CURE is an extraordinary remedy that gives extraordinary results. It cures old, stubborn cases that many time veterinaries have given up-takes away every sign of lamenes

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Speclal Offering of Scotch SHORTHORN BULLS
under one peat oldi. yoars old: 15 jubs over one yoar old; 7 jant The beetilot we. ever had to offer in individuality and breeding. dohn Clanay.
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Chanoellor ( (imp. ) $=40359=(78286)$ )
 Stook for bil

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 MAPLE GROVE SHORTHORNS

 Fletcher Shorthorns and Yorkshire I have deiied to ofrer for
oull, (Imp, Joy of Morm



## SHORTHORNS

 Aleo numbor onotitw whity Sow ind that vill yieh trom 100 SHORTHORNS

AND LINCOLN SHEEP.


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Maple Lodge Stock Farm 1854-1907.


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Maple Grove Shorthorns (x)
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UGUST 29， 1907


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 CLYDESDALES Two mares 5 years old．ono an ortra good ooe． JAS．MCARTHUR，Gobles，Ont． Pleasant Valley Shortherns


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## SHORTHORNE


 ค．митонеL $=$ еоне
Shorthorns，Cotswolds， Berkshires

CAMA Also fomales of till ages In Cot chas．e．bonnycabtle． WILLOWBANK SHORTHORN HERD ？
cy＝




Scotch Shorthorns Cl （arfor


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hold their good looks，just as they hold their strength A special fenture is made of the painting and finishime And Tudhopes retain their gloss－look new－when other makes，bought at the same time，have lost their pristim brightness． tudhope No． 46
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Seloot your stook bull or family cow from
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1 Am nom broeding the two most popoular and prododitive familite of the Joreoy broed known





SHANMOM BANK STOCK FARM AYRSHIRES Young bulls from preducing on ayrehires and yonkehirio Oong stook of both eozes fol w．H．TRAN．Ooder Grove，ome CYRSHIRES FROM A PRIZEWINUING HERD
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 ation and Telegraph． Cor sale：Two tichlyb－bred \＆Y Yorkshires
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74 NRMS $\begin{aligned} & \text { WITHOUT CHANGE MEANB } \\ & \text { that in 1836 we made an importation of sheep, }\end{aligned}$ been importing and breeding them ever since, and that this year I have made an im-
portation of Shorthorms, Shropshimes, Clydesdates and Welsh Ponles as good as could be bought. They, with high-class home-bred ones, are fo
sale, write me. ROBERT MILLER, STOUFFVILLE, ONTARIO.
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Oak Park Stock Farm Shropshires Have just landed
England. A numb
Shrembbury and ou
at the Royal. Sliow
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YORKSHIRES of Choicest Type and Proeding
 Clara, Minnie, Thady Frost and Queen Bess strains. $M$ stock boars are true to type and ricienent beeseding. Forans. Mor sal
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sows for rale, 10 and 12 woeks old
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 Kin offiriat at the
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akin. Write
Wror H. J. Davis, Woodstook, Ont. Yorkshires and Tamworths-Either bree mexes; ;oms bred and ready to breed. Yorkshir
bred from imp. Gire and dam.
Tam worths tro

Duroc Jerseys.
 IMPROVED LARGE YORKSHIRES-Her ator 9hh ay Da Dalmeny Topsin an 2nd (imp.

 NEWCASTLE Herd of Tamworths and Shorthorn



A. A. CoLwill, Newcasile Ont. GOSSIP

QUESTIONS AND ANSNERS eterimary.
bronchocele

Ans.-This is an enlarged thyois. A . D.and,
and is culled bronchocele, or goitre. It is

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MUD FEVER-CRIbBER
Have had mud fever in uy stable
a year. First one and then another
2. Two year-old is a cribber. J. J. E.
Ans. -1. Mud fover is not a disease
that exists in stables. of course, poor






$\qquad$
SUFFERED FROM HEART and NEPVE TROUBLES FOR the LAST TEN YEARS.
If there be nerve derangement of any kind, it is* bound to produce all the phenomena of heart derange ment. In

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 The $\begin{gathered}\text { Meadowbrook Youks stock of both sexes. } \triangle A \text { nur }\end{gathered}$ sired by Imber or sows old enongh to breed, all aimeny Topsman.
guaranteed as represented.
Everything
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 All good colors.
SOHM RACEV nnoxville Que
FARMER's, ADVOCATE '" Want and



PLEASE MENT:ON THE FARMER'S ADVOCATE.

## GOSSIP

## cows were accepted by the Amorim.

 stein Association from AmericanJuly 25 , 25 hen, 1907 . All made
 ana six nate thitry thy theoris Whis herd of 94 animals of all ages, of
wich more than one-half were heifor
with first or with first or second calves, produced in
seven consecutive davs 36 , seven consecutive days $36,009.2$ produced in
containing $\quad 1.203$
milk, Showing an average of 3.34 per cunt. fat.
The average yield for each animal was
i33 $383,1 \mathrm{lbs}$ milk, coniaining 12 . \& Mos
liss.
butter-fat. equivalent to 54.7 lbs, milk or nearly. equivalent to 27 quarts per das. milk,
15 and 15 lbs. of best commercial buttur per
week. The great work that Holstein-Priesian
cows are doing is shown by the fact cows are doing is shown by the fact
that, to the close of the 18th Vol. of
the Advancal Resistor 51 nim the Advanced Register, 54 animalal have
made official seven-day records in excese
of averaged 578.7 lbs. milk, 54 cows
22662 22.662 lbs. of butter-fat, thus showing
an average of 3.92 per cent. fat; and the ammount of fat producen is equivivat that to $26 \quad 1-3$
butter. $\begin{aligned} & \mathrm{lbs} \text {. of the best commercial }\end{aligned}$ In this issue of the Official Reports. the aged cow class is led by Prilly; at ducing 20.161 lbs , of butter-fat in seve
days, and 78.94 ths. in thirty days.
This cow is now noted as the dam
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TRADE TOPIC

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