## PAGES

MISSING

## The Farmer's Mduocate: <br> <br> Establishee

 <br> <br> Establishee}Persevere and
Succeed.

## and tome Magazine

(c)

EDITORIAL
THE EDUCATION OF THE RANK AND FILE. ears a disturbingly large drift of population from the farms to the populous centers. It has been he subject of much comment in Canada, United States, Britain, Germany, and other countries. While the farms cry out for labor, vast masses and about as miserable as human beings can be and yet exist. In the greatest cities this poverty and congestion is the worst. It is not confined to the Old World, for New York, Chicago, and even more modest-sized cities, such as Montreal and Toronto, 'have their awful slum districts, festering abcesses in the civic life, producing a prolific crop of immorality
For this worse-than-bestial condition, one remedy is commonly prescribed. " Back to the
land," say the social reformers. "Back to the land," say the social reformers. ", Back the the
land ${ }^{\text {is }}$, motto and effort of that great evangelizing body, the Salvation Army. "Back to the land " is indeed the remedy-or would be, were it practicable. But for the most part it is not. It is an eloquent commentary on the nobility and nature of agriculture, that as man descends int the depths of ignorance, poverty and moral degradation, he develops a pronounced aversion to the farm and rural life. As a rule, it is men of broad outlook, sane views, pure minds and noble sentiments who hold country he slums shun the farm teem. The habitues of the sif by chance induced as they would a plague, a quickly forsake it for to make the experiment, quicky forsakem is the pure fresh air and arching sky, the springing vegetation, the exquisite notes and tints of na ture's creatures of the earth and air, the placid kine, the perennial wonders of stable and the honest, thrifty toil in co-operation with na ture, the quiet meditation of the squalid there is the life they know and can appreciate the congeniality of others similarly depraved, the activity of a seething tide of spent humanity. It excitement, it is the life they crave
Since little can be done to uplift these submerged classes, the remedy must lie in prevention. Prevention concerns itself with causes. What are
the causes of this morbid inclination for the city, which to so many eventually means the slum? which to so many evecharacter-economic and sociological. The economic phases are easily traced. Mankind, in advancing from the primitre state an individual support and independence, requrs and manufactured goods of all kinds. These are thost advantageousty cros productive capacity and manits increase, a gradually diminishing proporthe soil, while the rest assemble in cities to enthe soil, in manufacture and trade. This is inevitable, and in so far as necessary, is The sociological causes are more complex. and need not be inquired into exhaustively for the present purpose.
garious or sociable creature. He likes compan-
ionship and the conveniences which city life af-

rent to the indigent, the slothful and the fainthearted. On the other hand, ambition has lured many to the town-the ambition to marshal vast
forces, to acquire wealth rapidly, to loom large and prominent in the eyes of men. Vanity is a predominant trait of the human race. In short made its strongest appeal only to the stalwart industrious, thrifty, philosophical elements mankind. As the proportion of these is small, it follows that a great many of those who have continued on the land remained partly, at least through sufferance, not being fitted for othe walks of life. That far-off fields look greener tha they are is proverbially acknowledged, when with the lure of distance is combined the ex aggeration of envy, the tendency trong When to this is a dot injustice such as result from high protective tariffs, bonuses and tolls, direct and indirect, is it any wonder that the prevailing spirit throughout the agricul tural world has been one of disparagement and discontent, and a longing for other means of live lihood? Is it surprising that agriculture has not generally speaking, been prosecuted with thater terprise, that enthusiasm, that interes neussad oo its advancement in pace ored by the Is it strange that the farmer, han, should lag beconservat it inexplicable that his children should imbibe his discontent, or fail to be inoculated with the germs of his too scanty enthusiasm? Is it any wonder that they should incline to forsake an occupation in which their saw so few examples of broad-gauge success? No wonder at all. Not one in ten thousand ever learned to appreciate farm life or to estimate the occupation at par value. The universal tende

One might have thought the schools would do One ming to correct such abnormal and irrational impulses. Not so ; instead of correcting, the school aggravated the cityward impulse, and aa education became general, its effects in this direclum and tendency of the school was to extol the achievements of militarism, as revealed in the pages of history, of scholarship, of pednally later, of professional employment, Dealing as it mercantile with and book-lore, developing only the did with books and dent throughout the impressionable years of his schooldays from manual employment, the effect was bound to be a centering of ambition on those realms of effort peculiar to the town, a distaste for work, and a preference for sedentary occupa tion, or, as a Westerner once put it, a pref erence for a white-shirt jor. As the schoor colleges were of a nature calculas men, rather than professional, clerical and artisans and farmers, the pelcomed the school as content abo from labor; hence the schools, colleges and universities have been turning out an overplus of professional and mercantile classes, while the ranks of farmers and artisans have been a large extent recruited from those who had not the spirit, energy, mental equipment or the opdemand for immigrants from less enlightened countries to reinforce the ranks of the agricultural and melustrial army. Particularly the agricultural schools, in its ultimate working out, has been to develop an aversion to manual labor, but ar espe

What is to be done about it? W.thhold educaion from the masses? Scarcely. The ideal of ree education for all the people is right and proper; it is a noble and exalted aim, but educationists now recognize that a system of schools designed for the whole population of the state must not be the same as one intended only for the education of a limited class of rulers, aris tocracy and professional men. While we requir in the schools a broad basis of general still more tion and some attempt at cuture, wiversal belief emphaticaly in the dignity of physical labor: we and things about them, and particularly in their prospective callings in life, to the end that the manifold talents of the human family may be developed each along the line of his particular bent Then the boy with a genius for mechanics will be come a mechanic, and a good mechanic; the boy with an inclination for the farm will become farmer, and a good farmer, while thosers, will be cial aptitude a come lawyers, doctors, and tofore, our cramp the manual and agricultural activities of the individual, and to allow him freedom to develop only along the lines of sedentary employment. In fact, by its unintentional but nevertheless actual and systematic warping of the inclinations and aptitutes of our people, the edua cational systems have imposed on the race a dis ability like unto that imposed on the physique a Chinese woman by the bandaging of her feet

All this must be changed. We must balance p our public-school curricula by the general introduction of manual training, domestic science, school-gardening, nature study, and by an earo the capable and persevering effort on the rest of the teacher to relate these subje the course in curriculum, and,to weav han to arouse a every possible way inerest in the household, wholesome, prand the farm-particularly the for the adverse influences of the past have aflected it most seriously, and all admit that a large, intelligent, progressive agricultural population the best and greatest asset of the state.

## INCREASING INTEREST In DRAIMAGE.

As most of our readers must be aware, from epeated annual announcements, the Department of Physics at the O. A. C., Guelph, Ont., In charge of Wm. H. Day, is authorized by yen Provincial Department of Agriculture to send out to farmers in the Province, on application, only survey and plan farm-drainage systems, from Guelph being the expenses of the very heavy, seeing that he travels for one cent a mile each way An increasing number of farmers seem to be taking advantage of this very liberal ola recent communication from Mr. Day, he informs us that they have three men in the racical ly all the time, on survey work, and one man in the office drafting. Each field man attends to practically two applications per week, each application generally affecting sevion a field demonplication is made thating course of drains, stration of methods of sizo of tile, a discussion drainage in general, and of the problem under consideration in particular. These meetings are attended by neighbors interested in the subject, numbering sometimes as many as
Thus is the good seed scattered, and thus is it taking root.
the Farmer's Advocate and Home Magazine.
the leading agricultural journal in this
 john weld, Managra.
nemire mon The Farmizr's Advocate Winnipge, Man.
W. W. CHAPMAN, Agent, Mowbray House, Norfolk Street,
London, W. C., England.
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## HE LONG AND SHORT OF

she simmers down to this: If we mik a cont , she must, to be profitable, yield libera hether dairy-bred, scrub or dual-purpose, the ond four-thousand-pound milch cow is a poor content, work for mall wages a When dýocate dual-purnose small wages. When we e understood as meaning cows that are capabs of yielding six to twelve thousand pounds of milk year-cows like the first-prize Dairy Shorthorn at the Royal, illustrated in our July 30th issue. cows of the class represented by the exceptional eleven-year-old Shorthorn, Darlington Cransford Royal Show, at Newcastle, a few beeks at the a milk yield, made 83 days after calving, of 78 , 12 pounds in 24 hours, testing 4 per cent. b and a butter yield of 3 pounds 1 ounce; cow such as the splendic that used to be the pride of our stables and pastures.
Cows of this kind are very scarce now thanks the folly of the Shorthorn breeders, who neglected milking quality in a concentrated ambition for In the absence, or rather in view of the extreme scarcity, of such cows at present in Canada, and the still greater rarity of Shorthorn bulls calcuficient milking quality the dams possess, shrewd farmers have forsaken the old breed of their choice and wisely gone in for the speciul-purpose dairy breeds. Of course, there may be a limited num ber so situated that they can afford to cut the milking out entirely, and allow the calves to suck the cows. Such a system, however, yields a meager return per acre of land. Those who
follow it must be in a region of very cheap land follow it must be in a region of very cheap land
rents, or at least contiguous to large areas of rents, or at east contiguous to arge areas of
heap pasture. The worst of it is that the sys-
tle, the district in which it is generally pursued. It would be a setback for Canadian agriculture and a hardship to consumers of beef, were such system ever to become extensively adopted. Th rank and file of farmers. will be wise to insist on keeping cous that milk abundantly. If one or far better dispe fith ach breeds. In fact we have not much need in Fast ern Canada for a special-purpose beef breed at all. We need special-purpose dairy breeds, and a dual-purpose breed-a real dual-purpose breed-no a beef breed called dual-purpose by courtesy

The benefit with which the newly-inaugurated tanding-field-crop competitions are fraught is invalue of the field crops in Province of Ontario is upwards of $\$ 140,000,006$. According to this computation, an increase in yield of one per cent would mean an increase in output of $\$ 1,400,000$, ar nearly twice the amount of the total Provincial appropriation for agriculture in the year 1908.

## HORSES.

INTERNAL STRUCTURE OF THE HOOF OF HORSES
IFrom Protessor Wortley Axe's hook
Although the hoof is a firm, strong, protecting overing to the sensitive foot within it. very serius injury to the horse results from defects in its
tructure, which are often overlooked. These will e appreciated more readily when it is known that within the hoof is a particularly delicate and comlex arrangement. When a hool is removed with


The Sensitive Foot: Sole and Frog vedian cleft of fleshy frog; B, laminæ of the ba
velvety tissue of the frog; $D$, velvety tissue


Side View
ace of the hoof. The inner surlace the inner sur-
overed with rows of thin, horny plates running from above downwards, parallel to each other
all sloping forwards, like the fiters of the wall The corresponding portion of the sensitive foot leaves of soft, velvety, fibrous tissuc. These ar called the sensitive lamine, and in the living foot wall, so as to afford a firm, secure attacthment be tween the two. The sensitive frog and sole are
firmly attached to the corresponding horny parts: firmly attached to the corresponding horny parts:
but instead of plates, the commer ing medium here
is a mass of little papillow. so closely arraneed as
with nerves and blood vessels. Just where the
hair meets the horn-the part called by horsemen hair meets the horn-the part called by horsemen the coronet-is a very important structure, seen
when the hoof is detached. This is a prominent ring or band, extending round the foot, and covred with very large papillm. From it the wall grows, and injuries to it are followed by serious
defects in the horn. Not only do such easilyrecognized conditions as " sand crack "and "false quarter" follow injuries to the coronet, but all the defective qualities of horn, such as are found n dry, brittle hoofs, proceed from the coronet.
So, also, do the rings and irregularities often nociced on the front of the hoof.
Growth of Hoof.-The wall grows downward from the coronet at the rate of about an inch in
three months. It is constantly growing, and when protected from wear by a shoe, soon causes a disproportionate hoof. If allowed to grow, it a may even produce deformity., Remembering this, horse-owners will understand how necessary it is that no shoes should be worn more than about a
month without the superfluous growth of horn being removed from the hoof. Farm horses, in idle seasons, are often grossly neglected by being grown as to place the foot quite out of its proper grown as to place the foot quite out of its proper
relative position to the limb. Young horses that have never been shod are
alten injured by being allowed to run in yards or often injured by being allowed to run in yards or
small soft pastures where the hoof is not naturalsmall soft pastures where the hoof is not natural
ly worn down. Their feet become so overgrown and disproportionate that the limbs are injured and joints twisted permanently. Even foals should be attended to by the farrier when their hoofs become overgrown. No paring is necessary.
All that is wanted is the removal of the excess of wall with a rasp. This necessary attention would frequently make all the difference between good Cartilage.-It is unnecessary to enter more into detail as to the anatomy of the foot. Within the sensitive layer just noticed are the bones, and aftached to them the tendons which move th


Lateral Cartilages, etc., of the Foot pedis; B, lateral cartilage: C, peripole ; D, per
band: E, coronary cushion: F, sensitive c band; E, coronary cushion: $F$, sensitiv
amine, or fleshy leaves; $G$, section of skin;


Under Surface of the Coffin Bone, showing it Position within the Hoof
frog does not. The body of the coffin bone only extends backwards to, aloout an inch past the point
of the frog. It there divides into two processes which extend nearly to the hecls, lut leaving be of elastic material, over which the frog rests. This arrangement permits the frog great freedom of movement, and give feare of elasticity so necessary to its function of breaking concussion when the foot comes to the ground during progression. Th front part of the foot, by the thickness and hardness of the wall, and by the rigid basis of bone
within, is specially fitted to sustain the strain which is placed upon it when the toe takes the celght of the horse as it does in all forward
movements. The back part of the foot, by its thinner and more elastic horn, by its prominent cartilage for bone as its inner basis, is specially endowed for receiving its first impact with the ground during progression. That the foot may maintained in its best form. No parts must be defective, and all must be proportionate. A foot denuded of horn may have its sensitive portions proportionate hoof may so destroy the balance of the limb as to cause grave lesions, resulting in lamencss.

THE IMPROVED HACKNEY
The present fashionable Hackney horse, through many generations of purity, has been, stamped
with various good and desirable qualities, not the least of which is his unparalleled action, writes
W. R. Gilbert, in Rider and Driver. Since the early shows held by the Hackney Society, there ment has been made in the general style and symment has been made in the general style and sym-
metry of the Hackney; but I specially refer to the improvement in action. There are various styles and classes of action, hut they all involve more or less lofty knee movement. Breeders find it
very difficult to produce hock action relatively as lofty or as good as the well-established knee action ; hence, a fore foot lifted a great height in a trot, has not time to reach the ground at exactly
the same period as the hind foot comes down, this want of cadence being fatal to the horse for riding purfoses.
Nothing is more uncomfortable than the double bump experienced and endured by a struggling
rider on a horse with a lofty knee action. The rider on a horse with a lofty knee action. The
rider first bumps the saddle exactly at the morider first bumps the se'dale exactic at reaches the ground, and he bumps again the moment
when the fore foot comes to the ground. when the fore foot ever periect the horse in mouth and riding pur-
double bump is absolutely fatal for rem poses. Better ride a low-actioned Thoroughbred
or breedy saddle horse, which kicks the same stone all the way home, than a horse that almost It is impossible to a void the above uncomfortable ride, as the nervous energy, transferred to such muscular energy in the loins and quarters of
the horse as swing the hind leg, and lift up the the horse as swing the hind leg, and lift up the
rider, are out of tune and time with the much admired shoulder action.
Just as Hackneys are improving and advancing in their action, so they are becoming less suitable
for riding purposes. It is therefore extremely infor riding purposes. It is therers to describe these high-steppers as saddle horses. They are being
bred further away from saddle work, and the greater the distance from the pigskin, the greater and fashionable carriage.
If the rider springs him into a canter, there is still the uncomfortable and undesirable struggle of the shoulder; hence, with scarcely an excep-
tion, the Hackney should stick to harness as
closely as the cobbler to his last. The more action, the higher price, but even should any show
produce one or two solitary Hackneys to compete produce one or two solitary Hackneys to compete
in the new classes for high-school riding, let not
judges and funior breeders thereby be influenced. judges and junior breeders thereby for the harnes
There has ever been a market forme and that markit seems likely to improv
stepper, and stepper, and that markit seems likely to improve
with the modern carriage, which is made smallev
The various influences and lighter than formerly, The various influences
in this direction are as follows: The great im provement in roads, and especially the adop the
in cities and towns of asphalt, has removed necessity yor such greyt strengect, ever since the
was required formerly ; in factes have introduction of coachingr. the various vechicles have
gradually become lighter. in consequence of road gradually become lighter. in consequentertain city
improvements. Another point is that cers. jobmasters find that a smaller horse answers
purpose better, and they now buy 15.3 to 16
hands hands, instead of 16 hands to
Some of those who combine their jobbing busiSome of those who combine thec, further state
ness with the carriagehorse trade.
that there is a better demand for the smaller ness with the carriage-horse trade, further state
that there is a hetter demand for the smaller
hore, as the private buyer has well-grounded
hore oner-

companiments of size, those private buyers and heneration prefer a 15.3 horse are wise in their Without the increase of size (which I have so equently advocated upon certain lines), the pres-
ent pure-bred Hackney can meet these small and light carriage requirements; and, with rapidlygrowing large centers of population, together with
a foreign demand, there will, in the future, be required a vastly increasing number of inarness steppers.
No doubt some readers may mentally ask, What about the motors? Well, for business purcan be made in a short time ; but even this necessitates a considerable country-like distance be
twoen calls. The fashionable suburban doctor or the important wholesale traveller may require or the important wholesale traveller may require fer her victoria and pair; and if the lady, then, course, the gentleman.
But all this will not in any way interfere with the carriage stepper, whose position is not to be interfered with. Therefore, let Hackney brceders persevere in their journey from the simple to the
complex-from modest mediocrity to superlative extravagance and superiority in action, balance and address. Encourage smartness and intelligence of countenance in harness horses-a point
once much neglected-encourage constitution, in once much neglected-encourage constitution, in
sist on good limbs (I need not mention soundness, as the Hackney is a sound breed), and, above all, encourage good all-round action. That alone suits the fashionable ca
prices are freely given.
GOVERNMENT ENTERPRISE IN HORSE BREED ING
Government enterprise in America is tackling all
kinds of stunts in the way of breed-making. Th Kinds of stunts in the way of breed-making. The at present in three distinct lines of breed evolution.
Out in Colorado, the State resources are being supplemented by Federal aid in the attempt to establish ain American breed of carriage horses, using the trotter a. foundation stock. In New England the Washingto Government is co-operating with the Vermont Exper


Dissenter (7044)

$$
\begin{aligned}
& \text { Hackney stallion; chestnut; foaled 1898; sire Connaught (1458). Winner at Dub- } \\
& \text { lin Show. } 1908 .
\end{aligned}
$$

le outdone, the Iowa State College besought Federal countenance, and, if we mistake not, financial support, in the ambitious attempt to develop a new breed od by a blending of the blood of gray Clydesdales and Shires, with a dash of Percheron to be probably in troduced. Of course it remains to be seen what will come
of all these schemes. The last would appear to be the largest order of the three, and the least commendable
Horsemen who might otherwise look with favor upon Horsemen who might otherwise look with favor upon
the project do not see the wisdom of undertaking to the project do not see the wisdom of undertaking to
confine the breed to the gray color. The blending of the two breeds is in itself a sufficiently difficult task to render success uncertain and tedious, not to say im-
probable.
$\qquad$
juring with the equine race, it must not be inferred minion Department of Agriculture has been lending its good offces in a re-inspection of foundation stock fo the French-Canadian Horse Studbook, which is one the registers kept by the National Canada will soon have distinctive breed of native horses of well concenrated blood lines, and a reaily high degree of equine herit. In fact, these horses are aiready acknowedgod as being for all practical purposes buen commenoed in 885. Later the Province was visited by inspectors, with a view to making a first selection of animals for the records. Last year, Hon. Sydney Fisher, Doomion, Minister of Agriculture, proposed
which has since been made. Thus this distinctively which has breed, proserving and systematically perpetuating what blood lines remain of the celebrated old French-Canadian pony, lays claim and and it is considered by some that the Canadian experiment in breed evolution is not unlikely to prove
of the four.

PREMIUM PICTURE OF BARON'S PRIDE. A send photo-engraving of the celebrated Clydesdale stallion, Baron's Pride, may be obtained by any present subscriber of The Farmer's Advocate", who will send us the name $\$ 1.50$. The engraving is $77^{a} \times 11$ inches in size, and is printed with a soft tone, combined with much clearness of detail, on a card of finest coated stock. It is a beautiful picture to frame and hang in the a beary or sitting-room of any horseman's home.
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## LIVE STOCK.

JUDGING LIVE STOCK
Having carefully considered the general principles of tock-judging, and being confident that from experience and observation he has an intelligent conception ond breed type, quality conformation, for a purpose, and indications of onstitutional Vigor, the person tion of judge will do well to firs take a general viem from all sider of before him 10 placing, then soleot a "short leet," of
such as to his such as to huts
mind may posertily come into the prize - list, leaving
the clearly impoe the clearly impos-
sible ones to one.
side; or, perhaps side; or, $\begin{gathered}\text { perhaps } \\ \text { better, if the num- } \\ \text { ber is } \\ \text { i } i \mathrm{~m} \text { ited; }\end{gathered}$ ber is 1 im m ited;
place all in order
of merit. of merit. A A caro-
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should should next be
made, and in chese made, and in cace claims to prefer-
ence of any two or
more bring them ence or bry ther them
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together for closer together for closer
examination, not-
ing and allowing examination, not breed character, handling quality of skin, hair or fleece, $\begin{array}{lll}\text { and } \\ \text { try } & \text { flesh, symme- conforma }\end{array}$ tion, sound ness ing of legs and feet, sprightliness and trueness of achon, especially in horses; thickness and firmness of heek in meat-producing animals; size and form of udder and proper placing of teats in milikg , with the accepted
strong loins in all classes, together with indications of constitution. These last are, briefly stated, a broad chest floor, ample heart girth, deep and well-sprung ribs, and the comparativent eye, tokens, broad forehead, large muzzle and prominent eye, tokens, or the faculty of making profitable use of the food consumed. Having placed the animals in apparent orde
of merit, a final closer examination should be made of merit, a final closer examination should be made,
lesting by their walking or other action, and by stand testing by their walking or other action, and by stand-
order of arrangement would be an improvement, he
ahould have the courage to order it, even though some ahouly hopes may be disappointed. In the case of two animals being so nearly equal in merit that the juyge
ands difficulty in deciding which should be given profinds difficulty in inciding which should be given pre-
cedence, he will gain little, if any, help by hesitating codence, he will gain little, if any, help by hesitating
long in making a selection, as it is probable the longer ho delays the less confident he becomes.
The condition in which animals are shown sometimes makes it diffcult for the judge to satisly himself or excellent type and quality being shown in little more than ordinary breeding condition against one of less reel merit, in respect to those qualities, but presented
fin high condition of flesh, and made flash by careful In high condition of flesh, and made flash by careful
grooming. In such a case the fudge, while disposed to groward the industry and ambition of the skillful groom, feeder and showman, requires to exercise courage and decision of character in his ruling, knowing that he is
supposed to set the standard of type, and is in that supposed to set the standard or type, and is in that
sense expected to be an educator as well as an arbiter. The judge will do well also to observe the manner in Which animals may be shown in order to hide defects. While he may in some cases feel like shaking the care-
less or indifferent herdsman who shows his beast for loss or indiferent herdsman who shows his beast for
less than it is worthy, he should have an eye to the tricks of the trade, and be on guard lest he be misled by cunning effort to minimize the showing of a sway tion.
These notes have been penned on the presumption of the single-judge system being adopted, for while there may be eircumstances in which the adage "in the
multitude of counsellors is safety " holds good, and there may be instances in which two judges are safer than one, yet, taken on the whole, in practice, we believe from observation quite as many mistakes are made
by two or more judges as by one, provided the one by two or more judges as by one, provided the one
knows from expertence the classes of stock he undertakes to pass upon, and is wisely chosen. And such aman will satisfy himself better if working alone than Whth company, while there is economy of time and ex-
pense in the one-judge system, which is growing in favor pense in the one-jud

## MANAGEMENT OF SHEEP

In an interesting paper on "The General Management, of Sheep," read by Mr. Alfred Mansell at the International sheep-breeders' conference at Newcastle, he said the agement, and success as a breeder of pedigroe sheep
could only be achieved by strict attention to all details that made for success, paying particular attenso that the best growing period in a sheep's life was sot jeopardized by injurious parasites. The great object in founding a fock should be to procure a uniform lot of ewes of the same character and type, and this
could best be achieved by selecting the ewes from one could best be achieved by selecting the ewes from one
or two oldestablished and carefully-bred flocks. Too much importance could not be attached to making a "correct start." Possessed of the ewes, attention should be given to improving the ewe flock, rather
than an effort made to acquire a reputation as a rambreeder by extensive showing. The first few years should be devoted to improving the ewes-an object which, though equally important, was more easily achieved and far less costly than ram-breeding, mas
much as sires suitable for producing good ewes never commanded such high figures as those. likely to obtain commanded such high igures as those likeiy to obtain exhibiting uniformity of character and type, the great ort difficulty had been overcome, and by judicious matmight be counted upo

COLOR IN SHORTHORNS
Professor James Wilson, of the Royal College Professor James
Science, Dublin, Ireland, has recently completed an in
teresting inguiry into the question of color variation in teresting inquiry into the question of color variation in
Shorthorn cattle, which has just been published by the Royal Dublin Society. Prof. Wilson's report reads as follows:-Rollows:- In a paper, 'On the Inheritance of Coat Color in
Catle, published in . Blometrika' Barrington and Prof. Karl Pearson have collected statistics taken at random from Vols. xxxvii. to xlix.
of the 'Shorthorn Herdbook' as to the colors of 2.17 calves and their parents. From these st regards color, sh horns display Mendelian characters. the
whites and the reds being the pure an cestral races, and the romns the hybrids
if The following table is Miss Barring". The following
ton and Prof. Pear tables combined, $t$保 marated in two tables. But this tabl. is framed with regard rather to the colors under which Shorthorns are en
eered in the herdbook than to the origit listory of the breed. " The Shorthorn breed origlanted in the eighteenth
Durham and try which three ra Gaxon. In pre-Roman times the Celty

" It happens among that, in a few generations, unless it be sperially eling nated, a progenitor's blood runs in the veins, of numer-
ous descendants. ous descendants. An illustrious sire gets, perhaps, 20
sons; his sons again get 300 or 400 ; these again get 4,000 or 5,000 ; and so on, until it may be difficult to
find an animal which is not the illustrious sire's descendant. Thus at the present day there are not many Shorthorns which are not descended from Cruickshank's
Champion of England, born in 1860, andi none which Champion of England, born in 1860, and none which
are not descended from Charles Colling's Comet, burn are not descended from from Studley Royal stock, and also from Lady Maynard. Thus the blood of the old red-and-white cattle, and of the Northern thack cattle. flows in every Shorthorn alive to-day. But the black
color, if it can be said ever to have been bred within the breed, was soon bred out. It was unpopular even
in the eighteenth century. Mendel's law shows how in the eighteenth century. Mendel's law shows how easily a foreign color or any other outward signs of a
foreign cross may be bred out.
. Thus in the matter of color, at any rate, the modern Shorthorn is descended from two races, the White Roman and the Red Saxon, the 'red' including
red, red with little white, and red and white. The table of coat colors should, therefore, be reconstructed on the basis that the Saxon 'reds' are one of the ancestral races, and the Roman wh
The table then becomes as follows

| Coat color of dams. | $\begin{aligned} & \text { Coat } \\ & \text { Red. } \end{aligned}$ | color of | ires. White | Coat color of calves. |
| :---: | :---: | :---: | :---: | :---: |
| Red | 418 | 257 | 3 | Red |
| Red | 25 | 291 | 68 | Roan |
| Red | 0 | 4 | 0 | Whito |
| Roan. | 226 | 152 | 0 | Red |
| Roan. | 230 | 278 | 14 | Roan |
| Roan. | 0 | 84 | 9 | Whito |
| White. | 4 | 3 | 0 | Red |
| White..... | 60 | 33 | 0 | Roan |
| White.................. | 0 | 15 | 3 | White |
| - Expressed in the usual Mendelian manner, these figures show that:- <br> 438 reds, crossed by reds, produce $\begin{gathered}\text { Reds. } \\ 413\end{gathered} \underset{25}{\text { Roans. }}$. Whites. |  |  |  |  |
|  |  |  |  |  | not being registered. For instance, a bull standing registered in the herdbook by his breeder, who is the most distinguished breeder in England, as being red.

This bull's sire was white; his dam was red; and he This bull's sire was white; his dam was red; and
ought, therefore, to be roan. He has bred several white calves from roan cows, and on this ground also he ought to be roan. On close inspection he is a
roan, but such a roan as might easily be mistaken for roan, but such a roan as might easily be mistaken for
a red. tle is very strong, but especially against an animal
some of whose ancestors were white. There is an imsome of whose ancestors were white. There is an im-
pression that a white animal from roan parents may from one or two white parents will produce many white Calves; consequently, even in the best herds some white
calves are not registered at all, more especially if they calves are not registered at all, more especially if they
have a white parent. For the reason that white calves are not desired, two white animals are very seldom mated. Among the 2,172 matings collected by Miss
Barrington and Prof. Pearson, only three such cases detracts from the completeness of the data; but the necessary numbers can be made up from other data col-
lected by Miss Barrington and Prof. Pearson. They searched the herdbook for white matings, and found 86 whites. In view of the causes of error mentioned,
and the regularity with which the Mendelian law operstitutes, or the progeny of erronens the data I have
ents. Expressed in Mendelian form, the dat

$$
95 \text { reds, crossed by reds, produce } \begin{gathered}
\text { Reds. Roans. Whites } \\
90
\end{gathered} \int_{0}
$$

$$
\begin{aligned}
& 95 \text { reds, crossed by reds, produce } \\
& 1 \text { white, crossed by white, pro- } \\
& \text { ducos }
\end{aligned}
$$

$$
\begin{aligned}
& \text { duces } \\
& 78 \text { reds }
\end{aligned}
$$

3 whites, crossed by whites, pro-
135 whites, crossed by reds, pro-

| duce |
| :--- |
| 514 roans, cro......................... |$\quad 128$

514 roans, crossed by roans, p
duce .........................
1,008 r
description and the error arising from some white calves pression that a white alvimal but that a white animal Barrington and Prof. Pearson, only three such cllected,
occur. In the 1,023 matings which I have collect only one case occurs. The paucity of white matings
detracts from the completeness of searched the heratan
that 91 such cases produced 1 red calf, 4 roans, and and the regularity with which the Mendelian law oper-
ates, these 5 colored calves may be set down as subates, these 5 colored calves may be set
stitutes, or the progeny of erroneously described par-

78 reds, crossed by whites, pro-
duce ........ ...................
duce
370 roans, crossed by roans, pro-
rone duce ............... ........ ...... $90 \quad 178 \quad 102$
426 roans, crossed by reds, pro-
 - duce $\overline{1.023}$
" Remembering the sources of error, these figures approximate sufficiently closely to Mendelian ratios to
show that the roan Shorthorn is a hybrid between two show that the roan Shorthorn is a hybrid between two
races-one white, the other 'red.' It may be of some interest to show the colors of the calves when reds are crossed by roans-frst, when the bull is red; and,
secondly, when the bull is roan. They are as follows :
150 red bulls produced from 150
Reds. Roans. Whites.
These figures do not come out in Mendelian ratio with perfect accuracy; but the discrepancies can ex ex ex.
plained. They are the result of three causes, viz. plained. They are the resulc close examination to tell
(a) Sometimes it requires a coll
whether a call is really red or roan. Breeders have whether a cal examined the colors of their calves with a view to greater accuracy than commerce required
and so some errors of description have crept into the and so some errors of description have crept int are mone
herdbook. (b) White Shorthorns are of smaller mone value than roans or reds, and, consequently, many art
not registered at all. This happens especially with
Tris animals of little merit. (c) Among unscrupulous breed ers the substitution on a colf's pedigree being bestowed
is not unknown, a white call upon a roan or a red.
"/ To eliminate these sources of error as far as pos". To eliminate these sources of er data, which is made sible, I have collected a new
up of every entry in Volume 52 (published in Novem up of every entry in therthorn Herdbook, by a number or breeders who may be expected, because of the hig
value of their cattle, to register a very high propor value of their cattle, to register a very high propor-
tion of their calves, and who would not substitute one tion of their calves, Two of the sources of error cannot,
calf for another. Two

## THE FARM.

NOTES FROM IRELAND
ENCOURAGEMENT FOR TOBACCO-GROWERS The efforts that have, during the past half decade and more, been phat give promise of producing permanent results. Some of the pioneers in the movement have been exhibiting great enterprise in engaging experts from anrouitability of the climate and soil in different parts of the island for the crop have been fully demonstrated. Of course, as I pormality
$\qquad$
had to be gone through by prospective growers in order to obtain Governmental sanction even to xperiment with the crop, but the passing of the cilities. Having yot thus far, the enthusiastic dvocates of the weed persisted in pressing the dvocates of the weed persisted in pressing the by dint of much persuasion by our Parliamentary representatives, the Chancellor of the Excheque
has at last been induced to give, through the Department of Agriculture, an annual grant o $\mathrm{c}^{2}, 000$ for the development of the tobacco industry in Ireland during the next five years. No ooner was this cheerful announcement made than appeals came from England, Scotiand and wales have undertaken the laborious and voluntary experiments that Ireland has carried out, and, unti
they do, they cannot consider themselves entitled they do, they cannot consider themselves entitied
to State assistance. In this particular instance to State assistance. In this particular instance
the Government helped those who helped themselves.

CREAMERIES CRITIICISED
It is a mistake to look for perfection in any
prganization in this world, and the creamery organization in this world, and the creamery criticism, and have its defects revealed under the
ight of the same. In Ireland, creameries have light of the same. In Ireland, creameries have
become firmly-established features in our dairy become firmly-established features in our dairy ence means, to a certain extent, the extinction of home buttermaking, and, therefore, an absence of a very desirable class of occupation for farmers'
wives and daughters. This is an objection that has recently been urged by Dr. Clancy, one of the Roman Catholic Bishops in Ireland; but it is not the only feature to which he takes exception. In
may be of interest to briefly state the grounds on may be of interest to briefly state the groun beneficial influence which the creamery system exerts. He contends (1) that the carting of milk to the central depot takes up the time of children who
ought to be at school ; (2) that the assembing ought to be at schood the delays while waiting to be attended to, give scope for idleness, and even
worse evils, especially where the inevitable public worse evils, especially where the inevitable public
house is in the vicinity ; (3) that home dairying has been rendered a thing of the past; (4) that the eagerness for great profits from the creamery induces the farmers to send all their milk to it,
which obviously means depriving their families of this most essential article of food, tea being re sorted to as a most undesirable substitute; (5) that there is considerable danger of spreading the germs of diseases through the medium of cream-
eries ; (6) that the skim milk can never be made equal to the whole milk for call-rearing purposes, (7) that the existence of creameries has exerted a very destructive influence on the business of the
country towns where butter markets used to flourish. The money formerly received by the farmers at these markets was circulated among the shop keepers in the towns, but sircial travoller plies a became successful grocery and soft-goods business by the luggage van and the parcels-post, and a hundred interests that benefited by the interdependence of supply and demand seem to have become dead. it was not the intention of Dr. Clancy to condemn co-operative dairying, his lordship certainly has shown that the system is by no means free from movement, has defended it against these various criticisms, pointing out that such evils as employing school chicren and giving opportures for drunke with reference to other points, Sir possace gave this trenchant reply: "The remedy for the underfeeding of calves is not a reversion a less profitable system of buttermaking, but an
intelligent, economic and easily-understood method


Watching the Races at Edmonton.
of supplementing the separated milk with the missof supplementing the separated milk with the miss-
ing ingredients of a proper dietary. How would
we feel if we ever have to confess that the cream we feel if we ever have to confess that the cream-
eries of Ireland were suppressed because our couneries of Ireland were suppressed because our coun-
trymen are so degraded by these wealth-producing trymen are so degraded by these wealth-producing agencies that they have not the humanity to give
proper nourishment to their children, or the intelproper norishment to their children, or the int their calves?" With reference to the passing of home dairying, the plea was that it was merely a sign of the changing times, and the same app
local shopkeepers

Unless I am very much mistaken, the agitation in favor of removing the embargo on Canadian
cattle is going to make its biggest bid for success cattle is going to make its biggest bid ior success
in the near future. The very influential deputa-
tion that waited on the Prime Minister, Mr. Asquith, the other day, received a reception that has created some uneasiness among those who strenu-
ously oppose any tampering with the existing reously oppose any tampering with the existing re
strictions. The Premier has promised to consult the President of the Board of Agriculture, Lord Carrington, but unless the latter has modined his views considerably since the last will consent to abandon the position which he then took up against the proposed changes. Of course, there is a political as well as an economic element in is in anything but a stable condition, as witness every bye-election during the past few years. Anything that would lead to a reduction of the price of beef, which vary catchy attraction in the eyes of "the man in the street," and it may be that this consideration will influence the Cabinet towards a decision which would satisfy the constant appeals of those who have been clamoring for
Canadian stores, but would, it is to be feared, cause very grave misgivings to home breeders, both in Ireland and Great Britain. It may be pointed out that the wholesale price of beef has
already returned to its normal level, though realready returned to its normal level, though refrom consumers in our towns and cities. concerned will watch coming developments with keen interest, and await with anxious which has been put forth afresh to secure the relaxation "of
the embargo.

## FALL - WHEAT SEEDING

In a month from the present date wheat-seeding will be in order in districts where it succeeds. very largely on the preparation and condition of very largely on the preparation and conditability of the variety to the soil and climatic conditions of the district. In sections where it has not been tally on a small scale, and it is wisely sown only to a limited extent in any place, owing to its uncertain endurance of the severity of our winters.
The general success of the crop of the present The general success of the rrop of the present year, however, gives encouragement to continue
its cultivation more or less, and part of the business of the next few weeks will the the preparation of the land for this purpose. And the sooner plowing and tillage is commencedtial to successful germination of the seed. and to vigorous, wellrooted plants which will most likely weather the winds.
We. plowing in the harvest season, but there are generally some slack days, due to wet weather or
the waiting for a crop to ripen or to dry, when the waiting for a crop to ripen or to dry, when
the teams may be employed at plowing and tilling the teams may be employed at plowing and
the land intended for wheat. In our travels in Western Ontario, in the last week or two we have seen a number of fields already plowed, evidently
for this purpose, and some rolled and harrowed. for this purpose, and some rolled and harrowed,
as they should be, immediately after the plowing. as they should conserve the moisture in the soil and secure firmness of the land. In too many cases
this is neglected, the land being left in the furthis is neglected, the land being left in the furrows, exposed to the hardened, requiring much mor labor to get it into suitable condition for seeding, and resulting in a seed-bed lacking in moisture and in available plant food. A clover sod, plowed
early in August, and frequently harrowed or lightly cultivated, is one of the best preparations for fall wheat, though a pea stubble or barley stubble if the land is in good heart, may answer the pur pose well. Where the spring, the preparation for sod field, plowed some cases consist of surface culti vation alone, without plowing, and we have seen excellent crops grown from succ management, also from surface cultivation ater has been removed
silage corn, where the corn hat silage corn, where the corn has been removed
early enough. The essential points to observe ar early enough. than is in a good state of fertility and can be properly prepar reduce the land to a fine tilth
a good start.
prenuent cultivation, and sow in the early days

September a variety that has succeeded well in covered grounds are well laid out in gardens September a variety that has succeededitions in
your district, or under the varying condition many districts. $\qquad$
CANADA AT THE FRANCO-BRITISH EXHIBITION
The Franco-British Exhibition, in London, Engiand, is, in reality, as well as in name, French between the two nations, are comprehensive and very representative of the arts and manufacturing industries. Grounds consisting of 120 acres are used, 40 acres of which are under cover,
are conveniently situated, being within 25 minutes are conveniently situater, of the city), and are reached by "Tuke," which is an clectric railway
in a tunnel over one hundred feet below the sur-
senting a profusion oreat Britain beyond the seas is extremely well represented. New Zealand, Australia and Canada have separate exhibits in bus. Australia structed by their own governments. the produce has made a most attractive display, the produce sections.
sections.
Canada, under the experienced and capable management of Colonel Hutchison. has done her self proud; there has been no stinting in ex ground upon which the building, $350 \times 150$ feet
has been erected, at a cost of $\$ 120,000$. It is has been erected, at a cost of $\$ 120,000$. this adestimated that the total expenditure
vertisement will amount to about $\$ 300,600$. There


Franco-British Exhibition: The Royal Pavilion.
face of the ground, the "Underground," which is nothing Provincial about this exhibit. It is is another railway, running just under the sur- Canada as a whole; Canada, Great Britain's face of the ground; and street-cars, and motors granary; Canada, the great wheat-producing
and horse omnibuses by the thousand.
country, is the predominating characteristic of and horse omnibuses by the thousand. illion people the whole exhibit. The interior of the building passed through the turnstiles, and the exhibition on all sides is made up of representations of large had just got nicely started. It is expected that trees, the trunks, branches and leaves being made there will be many such days, especially during of heads of strength-Canada's strong wheat nection this month. The stadium encircling the. The idea is most distinctive, and is well carried nection hround has a seating capacity for 60,000 out; every man, woman and child visiting the spectators. The buildings are white, of most artistic arch
building must come away with the desired im building must come away with the dession : Canada for wheat. While wheat is the dominating feature, other


Canadian Fruit Exhibit at the Franco-British Exhibition.
branches of agriculture, manufacture and othe
industries are not overlooked, but touched with lighter hand. In a large, refrigerated chamber with double-glass sides and ends, there are life
sized figures, modelled in butter, of Jacques Carsized figures, modelled in butter, of Jacques Car
tier, standing in a row-boat about to land on the tier, standing in a row-boat about to land on the
banks of the St. Lawrence, where an Intian is
seen in possession. seen in possession. In another seetion are life
sized figures of the King of England shaking hand with the President of France ; another is the bus of Hon. Sydney Fisher, Minister of Agriculture
All are well done, heing good representations-and all butter. Of course, cheese and bacon have also a place in this section. On one side of th pavilion is a large and comprehensive display o
apples set out on glass dishes placed on small round tables. Very mouth-watering do the look and smell, and a few million visitors will like myself, reluctantly turn from these with th
regret that they are not giving samples On the opposite side of the pavilion are dis played some of the pulpwood and timbers of Can ada, at the base of which is a beaver dam, and a beaver pond, and in it live beavers-our firs engineers. These row they fittle wonders ar audience. paintings of the late Sir John A. Macdonald an Sir Wilfrid Laurier, couphed by the words, Na of the present large railway-construction undertakings is featured by a large painting of Canada showing the railroads, stating the number of miles of rallways operated, and the number under con-
struction. salmon, and backed by a painting of a river scene in British Columbia, with the salmon pictured pass ng up the river in the great numbers that
they sometimes do during the spawning season and the other tank contains cod, and supported by an Atlantic-coast fishing scene. The fish in the tanks are so well stuffed that they look quite life
At the other end of the hall are large paintings of Canada's grand old man, Lord Strathcona, an The eye is met, wherever one looks, by short pithy paragraphs, in plain, readable lettering, what prominent men have said of Canada, onat the future of Canada offers to the capable, wise, in dustrious settlers who embrace its opportunities. While the multitudinous articles of manufacture to furniture, all have a place in this large build ing, yet the natural produce-minerals, forestry and agriculture-predominates, and wheat is th king-rin of the whole display-Canada for whea

> THE SEASON AND THE CROPS. From nearly all parts of the Dominion come favoral, e reports of the crops generally. Timely
rains in most sections have kept the pastures fresh through the period of summer in which, as a rule they suffer from drouth, and when, as a conse quence, the milk supply in dairy furnished supplemen tary forlder or grain fond. The hay crop har vester has hulked larger than was expected in th sprine months, and winter wheat, where grown
has, as a rule, been garnered in good condition has, as a rule, been garnered in good condition
and will yield an average of bushels. The oat and wo largely grown, and so generally depended uron as a safe and suitable food for man and
beast, and which last year proved a partial failure heast, and which last year proved a partial failure
in many districts, promises an abundant yield in many districts, prod will prove a very profit able cron. The Western wheat and oat field give promise of yielding hountifully, and, as they
will ripen much earlier than last year, will proba by escape the danger of frost, and will gladden thi hearts of the farmers, and give impetus to liusiness in general. In the corn-growing sectiond terospect for well-filled cribs and siloes is de cidedly encouraging. while fruits and roots will probatly give at least an average yield. On the whole, the growing season has been favorabhe, pros pects of a generous roturn for their labor, and business me
near future

NEIGHBORLY NEIGHBORS
A subscriber writes us, reciting a fine illustra tion of neighborliness recently witnessed in water
loo County, Ontario, which speaks well for the loo County Ontario, which speaks wel of tha generosity of the farming district: On the afternoon of June 23 rd, Whering one those severe electrical storms
damage to property in the vicinity, Mr. A. I damage to property in the struck hy lightning and burned to the ground, and considerable live stock
and implements were consumed, entailing a loss of about $\$ 3,700$, partly covered by insurance. By
ight o'clock of the evening of the fire, it is said, of 12 feet, and a straw shed $42 \times 54$, and the the contract was let for most of the work of re- whole 48 feet high at the ridge, with a double-
building, and in the next few days, from forty to hip roof. It is said that, wy actual count, 480 fifty men, mostly neighbors, were at work gratui- meals were served during the period of preparatously helping to clear away the ruins, cutting tion, hefore the day of the raising, and that on timber in the woods, hatling it to the mill, and that day 243 men sat down to partake of a sumptuous anner
provided hy a aout
sixty ladies who had sixty ladies who had
come with their come with their
husbands and fathers, and hiad brought with them an abundance of eatables. The meal
was one such as the was one such as the
German ladies of Waterloo County are famed for providing, and the splendid n3w
structure stands as a monument of the
commendable spirit commendable spirit
of brotherly
kindof brotherly kind-
ness of the farmers of the community.
The importance of the observance of care
in the purchase of sound seed corn, and sound seed corn, and
having its germinating
qualities tested before quanties tested before
planting, has seldom been more clearly il-Franco-British Exhibition, London W.: Bird's-eye View from a Balloon bringing home the lumber, carrying with them lustrated than this year. The folly of taking chances ood for themselves and their teams. At the end the at wide is exempals scraggy and struggling stalks, of three weeks from the date of the fire, the while in fields planted with sound seed the crop is full sembled to help with the raising of the timbers and strong and healthy, promising a bountiful yield of or the new barn, $70 \times 84$ feet, with overshot first-class fodder


Interior View of Canadian Building, Franco-British Exhibition

## " * THE DAIRY

A VISIT TO CORNELL UNIVERSITY AND AGRI CULTURAL COLLEGE
OFFICLAL DAIRY INSTRUCTORS' ASSOCIA It whts our pleasure, during the week of July 20th, to visit the famous "Cornell" America Agricultural College, located at Ithaca, New York. The Graduate School of Agriculture was in session at the third annual meeting of the Dairy Instructors' Association
This Association is one of the newer organizations for the promotion of dairy knowledge. It is composed of the State Instructors and InvestiCanadians, up to the present, have not been repreented in large numbers, but those who have at sented in large numbers, have been received very cordially. The object of the Association is to promote uniformit. in methods of conducting experimental and inves figational work, and also to promote more uni orm courses in dairying. Some of the American colleges give neither lectures nor practical wnr in dairying until the junior and senior years. As one instructor expressed it, "After all the othe departments have selected the graduating me hom they want, those lemmitte take dairyio." The chairman of the commitee on Pensylvania ren a per ber beter nade a strong plea and pointed out how dairy ing might be made of much greater pedagogic value than it is at present. As an instance, he said, if ten average students were told to count the number of revolutions which a separator-bow was making, some would not know how to so, and among those who did, nearly every one would obtain a diferent answer. This was due to a lack of accuracy on the part of agricultural and dairy students. His experience was that students who took engineering, or some other branch of ex ath science, hrst, usually made better dairy sur course. It wa lift with the committee to drait a " model course in dairying," to cover four years, and to be taken as a part of a general
course in agriculture. We shall look forward with interest to the report of this committee. It is likely that all the courses in agriculture could
revised with profit from time to time. Mouldering branches should be cut away, and new grafts in serted from time to time. A little " budding, by way of experiment, might also be useful. On of the longest discussions arose over the repart
of committee on score-card for dairies. Suggestions were made as to improvement, which were under consideration by the committee when we were obliged to leave, but it is likely that the card will be accepted by the Associate that the number of points, will be equally divided between "equip ment" and "methods"; i. e., 50 points for
The committee on "Official standards to b Cows recommended American Breeders' Associations. These rules have been accepted and it is hoped that the Canadian associations will also fall in line. The Canadians are now one step in advance of the Americans in the nationalization of thei ecords. Now, if they woundard for all breeds," it would simplify matters a great deal. We never could see why Holstein cows should be required to come up to one standard, Jerseys another, Ayr-
shires something different, and Canadians and shires something different, and Canadians and
Guernseys something else. Why not make them all the same? The proposed yearly minimum standard for mature cows is $10,00 \mathrm{C}$ pounds milk young cows. Personally, we should favor elimiyoung cows. Pating the age factor entirely, and allow a cow to enter the " "Advanced Registry" or "Record of Merit," or whatever name is given to it, when what the age. However, the majority of the what the age. However, the mith this view. Yearly tests are recommended in preference to tests for a shorter period.
It was also decided to recommend that the Na December, have a students' judging contest in dairy cattle. We understand that this contest will be open to students frombtain lessons in the udging of dairy products, it was decided to ask h. management of the show to have expert

During one of the sessions, a photo of the late
Major Alvord, Chief of the Dairy Division of the Department of Agriculture, Washington, was un-
veiled in the lecture-room of the new Dairy Building, by Chairman Pearson, formerly Professor o Dairying at Cornell, now Commissioner of Agri culture for New York. The photos of a number of
prominent American dairymen adorn the walls of the splendid new building, which, by the way, is now in charge of Dr. Publow, formerly one of the dairy instructors of Eastern Ontario. The Agri cultural and Dairy Buildings are a fine block, and
We always enjoy a visit to Uncle Sam and our American cousins. The dairy instructors of the United States are as fine a body of men as on could wish to meet. Most of them are young
men, with all the enthusiasm of youth. A similar organization among Canadian Dairy Instructor and Investigators would prove of great value to the dairy industry of Canada
There is one thing that always mars to some
extent a visit to Uncle Sam. While the train wa still on Canadian soil, a person in blue uniform and having the letters U. S. prominently dis and put all the passengers through an examina tion somewhat as follows

Air you an Amurrikin citizen
dian
Tnit you expect to remain permanently in the ". Not unless we get in fail and can't get back to Canada.

We felt like saying, " None of your busine


Composition of an Egg.
(Shown diagrammatily
Whit-nearly all ( $96 \%$ ) carbonate of lime
all protein Yolk=one-half water:
wo-thirdst tat.
fit we told him we were going to attend a mee ing of the Official Dairy Instructors' Association After looking at us very carefully he passed on to put others through the same ordeal. We sug gest to Uncle Sam that he "cut this out," as we do not believe the American people desire tha persons entering their country for a friendly visi
shall be put through a sweat-box examinati shall be put through a sweat-box examination. A
woman on the train was very indignant that should be so insulted. On our return we wer met by the usual Canadian Customs officer, and a Canadian Immigration Officer who followed th to a cross -xamination. It was a lesson in mat ners which we trust our American friends wilt The incident reminds us of a story : Once upon time a skunk thought he would travel and se
the world. Noting a hole in the side of a hill. decided to enter. At the end he found a woodchuck comfortably enjoying a snooze. On waking
up his new-found mate, he desired to get upon up his new-found mate, he desired to get upon
friendly terms with him. Aiter considerable talk, in which the skunk tried to impress upon the
woodchuck that he was a distant relative of his, and that he would like to share the comfortable home of his underground neighbor, the woodchuck

sat up, in his well-known manner, and said: $\quad$ You sat up, in his wel-hown manner, and said like | walk something like a woodchuck, you eat like |
| :--- |
| Woodchuck, youtalk like a woodehick, but Thl the |
| if you smell like one." Thic ended their |

MAGIIITUDE AND VALUE OF, DAIRY PRODUCT The importance to the health of the pegple o cleanliness and care in the handling of milk, is emphasized by a consideration of the vast magni product of which, in 1906, was valued at $\$ 25$ 000,000 , while the home consumption was nearly as great in quantity, and the demand is rapidly tated that in the United States, the production and consumption of milk amounts to over 9,000 , 000,000 gallons per year, being an annual supply child in the country, affording 1.1 quarts a day or every individual, which includes the milk used in making butter and cheese. The value of this $\}$ product for a year, at retail, is the startling sum of $\$ 2,500,000,000$. This is about five times the ly twice the value of the corn crop, and on-third of the entire value of farm products in that country for 1907 , which is estimated at
$\$ 7400000000$ The wholesale value of dairy $\$ 7,400,000,000$. The wholesale value of dairy products last year was estimated at $\$ 800,000,000$,
which would allow a price of less than ten cents a gallon for milk at the dairy. An average re tail price of seven cents a quart was assumed,
which is probably a little below the average price

## POULTRY

## EGGS AND THEIR FOOD VALUE

By Prof. J. F. Snell, Macdonald College
omeone has poetically described eggs as-
Treasure houses wherein lie
Milk and hair and blood and bone
The lines were no doubt designed to express tersely the relation of the egg to the chick hatched rom it, for enclosed within the shell is not mere ly the germ, with its marvellous power of de
velopment into a new individual of its species also a store of food, suited to the requirments infant life, and sufficient to provide the chick with he "hair and blood and bone" with which it merges, fullarmed, ine the outer world. Indeed pigeon being one well-known exceptinfants (th tents of this storehouse is the only milk that na ture provides. The inference is an obvious one, that, containing, as they do, ingredients naturally should constitute an appropriate article of food for children, and we shall see that chemistry lends its support to this inference, though it likewise
confirms the observation of experience confirms the observation of experience, that bad
cooking (which, in the case of eggs, is overcooking) may materially alter the condition of the food, and render it so difficult of digestion as to be utterly unsuited for the use of the young
Like all succulent foods, eggs contain a large proportion of water. The quantity amounts to the contents of the per cent. of the total weight of the contents of the shell, not including the shel
itself, which is, of course, much drier water constitutes very nearly three-fourths of the contents of the egg, the proportion of water hein almost exactly the same as in the flesh of a
broiler, but consider broiler, but considerably greater than that in the
flesh of a full-grown hen. The water flesh of a full-grown hen. The water of the egg
is unequally distributed between the white and thr olk, the former being seven-eighths (accurately 85.7 per cent.), the latter only about one-hal water (50.9 per cent.). From this standpoint
then, the yolk of the egg is a much richer food than, the yolk of the egg is a much richer food
the white-just as solid meat is richer food than soup. To get the same weight of solid food we should have egg as from one pound of yolks pounds of white. We shall see later that there it be regarded as a richer the yolk of the egg is to present point is merely that, weight for weight
it is a more concentrated, a less watery, food tha
The relative proportion of water and solid matter in white and yolk are shown in the ac-
companying diagram, the unshaded senting, water, and the variously shaded portions
the different classes of solirls that the unshadled portion of the white comprise case in the yolk. But although the than is the more concentrated portion of the yolk is th of the two in size and weight. I wonder Ware the relat eeters have ever stopped to com
of the ege. White is the larger, but how many have any ide is, on the average. As a marlv matter of fact, the white editile weimit of whe pagg is volk, one-third of the Whell, abore exactly. the average and tigures are ahout about 58 per cent. of the of the whole egge egg; white解 the the whole egg; yolk, abou
portion the white
yolk 34 per cent.
Taking these figures
we see that, of the tota
onethird is contained in
in the yolk; for the
contents of the egg,
yolk is solid matter
yolk constitutes (one
of the total weight
the white, which
total weight, only
 cordingly, the solid matter of the white com prises (one-eight
the total contents.
woigh contains as two-thirds, and the white one-third. of the
shell.
cal in the solids of the yolk and white were identi)
yolk of an average egy would be about twice the of the white. But the solid matter of the two is
by no means identical, and, to expllain the differ ence, it will be necessary to define some chemical terms probably not understood by some of our If we were to remove all the water from an
egg, or from a chicken, or a piece of meat, we should find that the remaining substances-co" ".
stituting the " dry matter ", or "total solids " stituting the "dry matter or or total soins
could be divided into two classes, those which will burn, and those which will not. The former constitutes the organic substances of the egg meat, the latter, the inorganic substances is burned the mineral matter is left behind as an ash, while the organic matter disappears (being converted into gases, which pass of into the ate But if, instead of burning the singatance wateith ether or with gasoline, we should find that a pari ether or with gasonne, whe sho
goes into solution, while the remainder remains undissolved. The part which dissolves in the ether or gasoline is the fat. Fal ride sontains the mineral matter (ash), but also a quantity of organic matter, more abuudant than the ash, and quite different in composition and ef meat, the the fat. In the case of the pieces of meat, ine lean of the meat, the muscular fiber of the animal. It consists of what we call protein or nitrogenous organic matter. Fat contains carbon, hyyrogen
and oxygen, but no nitrogen erotein is about
Pro carbon, hydrogen. and oxygen. Food has two functions: First, the replacement
of worn-out cellular tissue ; second, the producof worn-out cellular tissue, sec, For the purpose
tion of, heat and muscula work
of the second of these functions, the supplying of heat to keep the body warm, and of energy to enable it to work, rat is the most of fat supplies richest, of our a ons.
nearly two and a hall times as much energy (in
and tein or one pound of sugar or starch. On the other hand, protein alone can buid
or tissue in the growing child, or replace the lar tissue in the growing child or replace or
ased-up tissues of the body of either child or used-up tissues is the thus the most essential, the
adult. Protsin
It must form a part of most indispensable food. It must form a por live or fat alone, nor
One could not diet
every diet on sugar or starchithe some lean, or a vegetable
accompaniment, either son
 diet, since neither containg , protein.
 relative quantities of the two are very different in
 of the very minute quantity. represcocorner if the
small space at the lower right-hand cor hand has twice diagram. The . . .
as much fat as protecin. If we leave the wate
nut of consideration, we find the roportion of
 Remembering that the yolk contains twice as





this very important standpoint, then, nearly fourthis very important standpoint, then, near concen-
fifths of the nutritive value of the egg is
trated in the little yolk. In energy-producing trated in the little yolk. In energy-producing
value, or "fuel value" (as it is often termed), value, or is sol the equal, weight for weight, of wheat flour, roast beef, or med to a poor milk.
while the white is hardly equal to The egg, as a whole, is about equal in fuel value
to its own weight of very lean beef. When we leave out of consideration the shell, which, with the exception of about four per cent. horns-is entirely made up of mineral me mineral the same composition of limestone, the mineral matter of the egg, like that of other foods, com-
prises only a small proportion of the total weight. The ash of the white only amounts to about $4 \frac{1}{3}$ per cent., and that of the yolk to only 3 per cent.
of the total dry matter. But as the total dry of the total dry matter. as a have seen, nearly substance of the yolk is, as the yolk actually yields a somewhat larger quantity of ash than the
white. What is more remarkable and more sigwhite. What is more remarkable and misions of
nificant is that the ashes of the two diviser the egg are entirely different in composition. Those of the white are alkaline, those of the yolk are acid. The ash of the white consise, potassium common salt, and the allied substance, potassium
chloride. The yolk ash, on the other hand, is chloride. The yolk ash, on the other hand, is
rich in lime and exceedingly rich in phosphoric ${ }^{\text {acid. }}$ Phosphate of lime being the chief constituent of formation of bone, and therefore an appropriative food for growing children. Excepting milk (which has over twice as much) no other food
tains as large a proportion of lime. in its ash. tains as large a proposphoric acid, egg-yolk stands
In respect to phosph at the head of the list, the proportion of this valuable mineral ingredient being more than twice as great in the ash of yolk as in that of milk
Egg-yolk contains, also, a notably large percent-Egg-yolk contains, also, a notably large percent-
age of iron, and the iron is present in a form in which it is readily absorbed and utilized for th enrichment of the blood. Hence, eggs are good
food for anmaic persons.
Regarding their value as food for children, we cannot do better than quote Hutchinson's words: " The great richnes of yolk of egg in fat. in lime salts, and in organic compounds oluable food for young infants, es pecially those who are suffering from rickets, for it is just those very compounds which a chil needs, and a rickety child needs ietetics.") ${ }^{\text {all. }}$ Though rich in protein and fat, eggs, like meat, do not contain any of the other great clas of organic food substances, present in eggs in but the protein and fat are presenty combined with
condition in which they are readily food materials rich in carbohydrates, so as to form a properly-balanced ration. Anrong the the materials rich in carce sago, tapioca, cornstarch
etc. Both yolk and white flow readily, and are easily mixed into the batter oluable property Moreover, the white has the vatuabte proper cakes light or to form soft icings. This adaptability to a variety of treatments is one of the characteris tics which render eggs so acceptashes owing their who produces many delictous eggs contained in them, but supplementing this protein and fat with such carbohydrates as sugar and
flour, rice, sago, etc.

PREPARING POULTRY FOR EXHIBITION.
Mating for good results and fitting for the showroom is a very fitting pastime, whink it a pity that farmers who show fowl at local shows don't farmers would not think of taking a horse or catthe beast without fitting same, and although at a summer show the fowl are often look better. If much can be done to make them
your local show should be in the fall, the moulting can all be over with. If you pick your birds, and feed very light for, say, two weeks, on free
range, then shut them up and feed very heavily on range, then shut them upley, green foor and bee wheat, oats, a a little flaxseed, you will soon see scraps,
the feat hers drop and new ones take their places
One of the very best feather-making foods is wheat One of the very best feather-making foods is wheat and a plentiful supply of beef scraps. When you hirds are a year or more old, choose all your young show stock and commence fitting. If they
are white birds, give plenty of straw to keep them are white hirds, give plenty of straw to keep then
clean. Don't attempt washing unless you under stand it, or your hirds will look like the boiled day hefore the show is a good time to start getting the hirds ready, Have a clean penall na hrush, after making some good suds, and proceed
to wash the legs and feet first; stand the bird i
 a bird with scaly legs, but if you have a particularly good specimen with scaly legs, dip its legs in
coal oil for two or three minutes about a week before the show. After washing the legs well, if you can spare the time, take a toothpick and pick out all the black from between the scales. This is very important if you wish to exhibit at a winter fair. Next take a piéce of chamois of
other soft leather and polish the legs well. Next, if the sickles or curved tail-feathers have a drag gled appearance, wash them in warm soft water ; when dried and flufied out it will add wonderfully a male's appearance. Take a plece ormb and wattles in warm
cloth, and wash the comb and soft water : use castile soap, and be careful not to rub too hard; then dry and apply a dressing of vaseline. If your birds are a white-lobed breed, little zinc ointment and rub well in. Sometimes you see a good specimen which has a beak growyou sto fast on one side, or a toe-nail growing too long or out of shape. Take a sharp
knife and trim carefully to the proper shape. knife and trim carefully to the proper shape.
If you wish to prepare your birds for a winter show, it is important to begin right from the show, it is importan Give abundance of shade, and the feathers will come in nice and dark, forget to good lustre. Feed ferall, and cannot have a good plumage where lice abound; then, again, nothing looks, worse than to see lice running ahead of the judge's hand, as he rathers. Remember that it isn't always the largest
hird which wins at a show. I would sooner have a good-shaped specimen one-hals pound under weight, than an extra-large bird off on shape. think a great many breeders pay too much had tion to comb on show birds. I have drove of Tamworth pigss, that they didn't like that long nose. Well, probably it isn least-important items, as we never eat the nose. So with show fowl pick out your best-shaped bor a bird is judged on you are good on color, for a places. Then look color in a great many. Follow out these rules, and the other fellow must then produce a bette bird to beat
Manitoba.

## APIARY

## ROBBING

In most localities the bees have nothing to gather during, at least, the fore part of August It is then that the aplation heo case out for robbing. Alt there hay hive to per of robbing, it is diffcult to open any bees becoming form ned making it hot for the operator When the nectar flow ceases, the bees will nose" powered and its stores carried away. The apiarist must, therefore, contract the entrances of weak colonies, and see that covers fit bee-tight before the natural supply of stores has ceased The bees of queenless colonies does: therefore queens, or unite them with colonies in possession of good queens. In spite of precautions, some colng $I$ do is to
found being robbed. The first thing pick grass or weeds and pile it against the entrance. This hinders more robsers wet the grass. read don't like to crawl through wet.
Rees dically that If the robbed colony is so weak numerically that it will not or can not defend its hive it must be entrance has been piled up Take it into the cellar or other cool, dark place. Of course, its entrance must be closede cannot come out, as they will do, even if it is dark. Another hive, the same in outside a pnearance, must be put where the robbed colony was. One or more frames containing a little honey should be put into it, so the robber
can finish the job. If this is not done, the sudden removal of all honey makes the robbers think they have "struck" the wrong hive. They will then pounce onto other nearbying. maybe, start another case of robbing.
If the bees of the colony in the cellar do not worry too much trying to get out, leave them in until the morning of the second day. Set them outy one or two bees can pass. If they are in only one or two bees can pass. they will defend possession of a dill right now, with the contracted en
trance. $\begin{gathered}\text { Another thing, don't let the bees get a tast }\end{gathered}$ Another thing, don't let the bees get a tast
of honey outside the hives during a honey dearth of honey outside the hives them more inclined to rob.
F. A. STROHSCHEIN

GARDEN FRUIT PROSPECTS: CO-OPERATION AND THE MIDDLEMAN.
FRUIT PROSPECTS in anNapolis Co., N. S.
Apples, the only produce the farms of the county
raise in any quantity commercially, have changed in complexion the past two weeks, owing to the three weeks of dry weather preceding July 16th. In thile
whole county the crop is shrinking from drouth, while in the western end the crop has never promised full; will give a good cro prophesy better quality than in the avetage year-less weather, and larger fruit, due to more care in cultiva tion, pruming, etc. Nova Scotia is getting to be a wonderful paradox, as far as fruit reputation is con-
cerned. We get reports from the other side highly cerned. We get reports from the other side highly
praising Nova Scotia apples as being better in flavor and color than any other fruit, and selling higher
Agatn, Nova Scotia fruit is poor, coloriess, badly
 enjoy a very variable reputation-now in the skies, now
badly bespattered with the mud of reputed natural do fect and operative dishonesty. "The dishonest packer; the dishonest packeriot I I : And the fences are being made of barbed wire, and raised a strand or two
each year, so that the soul of the farmor may be made immaculate by legal process, while the middlemen and brokers are as lawloss and unencumbered as ever, and able to fatten still faster on the harnessed, checked
and hoppled producer. Farmers here averaged $\$ 1.25$ per bopplea last year, and consumers in England averaged 4.00 per bol., and the guardian angels the tear
wo stole the rest. It is enough to of a third-term politician to see this game of grab and
downight theft go on each year at the expense of the lownright and see also the remedy for the evil at their hands, and they too individually unenterr rising reciprocally suspicious and distrustrul to apply thy remedy. They grumble, and suffer, and stay porr. and
would rather do so than give five cents a barrel to ward the maintenance of a co-operative packing an shipping company, to save the steal of fifty cents unde shipping company,
the present system

CO- OPERATION MUTUALLY ADVANTAGEOUS.
I would say that I fully believe that co-operation is the proper way to handle fruit ; the grower gets more for his fruit, and the consumer has no more to pay, and is likely to get it cheaper ion did the selling charging a percentage The buyers would only have to go to the Central to here should be a man appointed to visit the dif, erent co-operators and show them how to pack and grade their apples, as I find it hard to get good men to do the work properly. The
nent should pay for this man's services
ment should pay for this man services.
Our association is the Amavel \& Arran Fruit growers' Association. We have a membership of 250, and have only done business two years. ${ }^{1}$ tion in a few vears, for we can pay the growers more than a buyer can for their fruit,
We sold part of our prack for $\$ 3$ on and $\$ 2.70$ : We sold part of our pack for $\$ 3.00$ and $\$ 2.70$;
the balance we shipped to Europe. By that time the balance we shipped to kurope. By that time
apples had fallen, so we did not do so well, but apples had fallen, so we did
we did as well as the others
we did as well as the others.
Bruce Co., Ont.
J. DAvidSon, Sce. Treas.

## FRUIT AS FOOD.

It may be positively asserted that even the modern housekeeper. intelligent above her prede-
cessors though she may be, still fails to appreciate the value of fruits. Nothing among all the pro-
ductions of our bountiful mother can compare in richness a
Above all,
Above all, they give tone to the digestive organ,
antidote biliary derangements, and aflord an numerable variety of dishes at once delicate an apple, or the date, that fruit which for three fourths or the
Oriental race
Every breakfast table in the land ought each day to have a central dish of fruit, either cooked apples and grapes, figs and dates, currants, and
the royal line of berries chorries and trooselerries, the royal line of berries, cherries and cyoseberries,
plums and pears, apricots and peaches, lamanas and grape fruits-all are rounded in
quisite in coloring, and delicious to the taste
In one respect all fruits are alike. They show be eaten only when perfectly ripe and as tresh at
they can possibly be procured. The unfortunat they can possibl
denizens of large denizens of la
sume them af sume them a
he price they pay for other privileges.-(Fruit

## CO-OPERATION OF FRUIT-GROWERS

 I read yourmers Advocate$\qquad$ much pleased with it. I am of the opinion that he Central office to assist the associations in
che Central offce to assist the associations in
disposing of their fruit.
The officers of the Co-operative Fruit-growers
Ontario will meet in a week or two, whon hope a salesman will be appointed.
Our local association had last uccessful season, and is stronger year a most in thetter Shape than eve

## THE FARM BULLETIN.

## BRANDON EXHIBITION

Manitoba, although fixed for the same dates as aran Winnipeg Exhibition, was up to its average in every particular, and in many departments bigger and better ome previous meetings herearcely equal to that at draft classes. Clydesdales were judged by James
Cly
$\qquad$ Henderson, Belton, Ont., whose decisions gave general satisfaction. In the aged stallion section the awards
were, first to Keystone, shown by Vanstone \& Rogers,
commencem of an annually-recurring food shortage Wawanesa; second to Flash Baron, the Chater Syndicate

$$
\begin{aligned}
& \text { and a consequent eeprect ench of these fatal mile- } \\
& \text { famine, but, stangely, ene } \\
& \text { stones have been safely passed, and the world is sup- }
\end{aligned}
$$ horse; third to Mark Twain, owned by the Elgin Syn-

dicate. In three-year-old stallions, First Baron, shown

$$
\begin{aligned}
& \text { stones have been safely passed, and the world is sup- } \\
& \text { porting a greater population than it ever did before. }
\end{aligned}
$$ by T. H. Hassard, Millbrook, Ont., was a clear first, and in two-year-olds, Lord Gartly, a son of Woodend Gartly, shown by J. McKerdy, of Napinka, was the

$$
\begin{aligned}
& \text { present level. Wheat, for example, it marketed care- } \\
& \text { fully during the coming selling season, could be kept }
\end{aligned}
$$ winner. Yearling colts were headed by Bryce's

Revelanta's Heir, followed by White's Duke land as second, and Vanstone \& Rogers' King Edward as third.
The championship for best Clydesdale stallion any age, and the special $\$ 100$ prize for best stallion in the

$$
\begin{aligned}
& \text { in quantities greater than the demand can handle is } \\
& \text { the most potent cause of low prices known. The world }
\end{aligned}
$$ class, any age, went to Hassard's first-prize three-year old, First Baron, and the reserve was Bryce's Revelanta's Heir, the first-prize yearling. The special prize yon, any age or breed, the judge took Hassard's threeBarron first and Charke second. For young herd Burl also placed the Aberden-Angus. Mronkdate, Man., w

$\qquad$ W. H. English, Harding, Man., making a capital sh
ing. J. E. Brothour, Durford, Ont., showed a few
got several awards. The other exhibitors were Pot got several awards. The other ex
Strachan, Higgins and Switcher.

## MAINTAINING HIGH PRICES

 een discussing of late all manner of questions, hava the present high values that prevail for most agric ural products can be maintained. Those who ad cate that they will be maintained seem for the tin eing in the majority. We are being told that produce, grain and meat, have emerged aten flounder-the low-price valley in which they have ber
ing now for a good many years, and that never again

$$
\begin{aligned}
& \text { ittle, but the trend ever more will be upwards. } \\
& \text { Expectant prophets have been promulgating non }
\end{aligned}
$$

$$
\begin{aligned}
& \text { ack in the early ages philosophers and idle persons } \\
& \text { ace } \\
& \text { and }
\end{aligned}
$$

vere agitating themselves with the problem of how
For the present there seems some likelihood that

$$
\begin{aligned}
& \text { prices will, or may, be maintained at very nearly their } \\
& \text { present level. } \\
& \text { Wheat, for example, if marketed care }
\end{aligned}
$$

$$
\begin{aligned}
& \text { fully during the coming selling season, could be kept } \\
& \text { up very close to the present price for this cereal, even }
\end{aligned}
$$

$$
\begin{aligned}
& \text { ip very close to the present price for this cereal, even } \\
& \text { if the crop harvested in the next few months was a }
\end{aligned}
$$

$$
\begin{aligned}
& \text { more than average one. It depends very largely on } \\
& \text { how it is sold. Throwing anything onto the market }
\end{aligned}
$$

$$
\begin{aligned}
& \text { how it is sold. Throwing anything onto the market } \\
& \text { in quantities greater than the demand can handle is }
\end{aligned}
$$

at present is notoriously short in wheat, and likely to

$$
\begin{aligned}
& \text { at present is notoriously short in wheat, and likely to } \\
& \text { go a litte shorter still before any from the new har- } \\
& \text { vest comes in. Careful selling will help matters some. }
\end{aligned}
$$ of $\$ 100$ for the best Clydesdale mare, any age, went

o Bryce's yeld mare, Ella Henderson.

$$
\begin{aligned}
& \text { vest comes in. Careful selling will help matters some, en ser } \\
& \text { but, unfortunately for the farmer, the crop has gener }
\end{aligned}
$$ For the Free Press special for the best draft stal-

lion, any age or breed, the judge took Hassard's threa-

$$
\begin{aligned}
& \text { but, unfortunately for the farmer, the crop has gener- } \\
& \text { ally passed out of his hands before the careful selling }
\end{aligned}
$$

art starts, and he reaps all the disadvantages of sell year-old Clydesdale, First Baron, though a very strong
competitor was the Percheron, Porte de Vendome, of the finest of the breed ever seen in the West.

$$
\begin{aligned}
& \text { ing on an over-stocked market-a market where every- } \\
& \text { body wants to sell and buyers can simply dictate } \\
& \text { prices. Farmers just now are being overloaded by ad- }
\end{aligned}
$$

$$
\begin{aligned}
& \text { prices. Farmers just now are being overloaded by ad } \\
& \text { vice on haw to market their coming wheat crop so }
\end{aligned}
$$ In the cattle classes the display was larger and

better than usual, eleven exhibitors competing in the better than usual, eleven exhibitors competing in the
Shorthorn class. In aged bulls, Prof. Rutherford being

$$
\begin{aligned}
& \text { not to break the market. The fact is that conditions } \\
& \text { will force most of them to sell in tery much the sam }
\end{aligned}
$$ Shorthorn class. In aged bulls, Prof. Rutherford being

the judge, Clarke, of Minnesota, was given first place,

$$
\begin{aligned}
& \text { will force most of them to sell in very much the same } \\
& \text { way as they have been wont to for years. It's pretty }
\end{aligned}
$$ in a close contest, for Superbus; J. A. Watt, Salem, Ont., second, with Jilt Victor, and F. Cheasley, third,

with Emancipator.

$$
\begin{aligned}
& \text { The cornering game comes on in the second act, generally } \\
& \text { after the product has passed beyond the men who } \\
& \text { produced it. - ["Farmer's Advocate," Winnipeg. }
\end{aligned}
$$ Marquis of Marigold, and J. J. G. Barron's Mistlot with Marquis of Marigold, and J. G. Barron's Mistletoe

faclipse second. In a strong class of five two-yearOlds, Barron's Topsman
Spicy Wonder second, and R. M. Dous first; J. Caswell's
St. Clements third. Barron's Topsman's Duke 8th was first in sen-
ior yearlings; second being G. F. Ferguson's entry. Clarke was first in junior yearlings, Watt first in sen-
ior bull calves, and Barron first in juniors. Barron's ior bull calves, and Barron first in juniors. Barron's
Topsman's Duke Tth was given the senior championship award, and the same exthivitior socred for the junior
championship with his first-prize junior calf, Fairview Lad, the latter being also made grand champion. Bar-
ron won in aged cows with Tonise Cicely; Clarke in Chree year-olds with Dorothea 2nd, Barron in two-year
olds with Lady Sunshine, and Watt in senior yearliggs with Victoria 75 th; and also first in junior yearlings,
The senior female champion was Clarke's three-yearold, Dorothea 2nd, and the junior champion, Waty
Victoria 75 th. . In the herd contest the placing was
Barron first and Clarke second. Herefords were shown hy J. A. Chapman, J.
Marples, Shields \& McKelvie, Geo. Gray and F Smit
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
bUTTERMAKING COMPETITIONS
Amphitheatre of the Dairy Building at the Cana the National Exhibition. Toronto at the Canadian excepting the from September 3rd to 11th, inclusive will be held in the Amphitheatre of the Dairy Building
on that date. All persons interested in on that date. All persons interested in agriculturalThere will be on exhibition throfcooling and taking care of milk on the farm. Demon-
trations in milk-testingThe judging of of dary demonstrations.
tows: Ayrshires and Holsteins, Friday
fordserds-shorthorns, Monday, September 7th; Hereoke, Que.
OVincial, HalifaxThomas, ont
t. 2 nd to 251
28 h to Dec. inth-International Live-stock Ex

AUGUST 6, 1908
No Money Comes Easier than Interest-money, when you have
once made a start. One Dollar (or nore) will open an Interest-bearing
Savings Account at The Bank of t

| BANK OF TORONTO |
| :--- |
| you have, and your money will be |
| safe at this Bank. |
| Capital <br> Reserve Fund <br> Assets$\$, 000,000$ <br> 43,5000000 |

## MARKETS.



Wheat flour, \$5 for patents and \$4.50 Hides.-Dealers res report prices steady.
Demand continues to improve. Beet

 for Nos. 3, to and each. Calf skins are 11c. and 13 c . per 1 b . for Nos. 2 and 1 ,
1.

1. respectively, horse hides being $\$ 2$ each
for No. 1, and $\$ 1.50$ for No. 2 . Rough for No. 1 , and $\$ 1.50$ for No. 2 .
tallow is $1 \ddagger$ c. to $3 \ddagger$ c. per b ., and rendered $5 \neq$ c.

CHEESE BOARD PRICES.

 12c. Ottawa, all sold at $12{ }^{12}$ 8-16c.
Victoriaville,
Que., sold at $12 \mathrm{c} ., 12 \mathrm{tc}$ ictoriavile, Perth, all sold at from 12 c .
$\qquad$ Cheese sold at from 12c. to 121.c. a
and on various other Ontario boards on August 1st.

## BRITISH CATTLE MARKET

## 

 anchers, 12 c . to 12 jc c.; grass ranchers 11 c . to $12 \mathrm{c} . ;$10 gc . to 11 fc.

## GOSSIP

THE HIGHLAND SHOW
At the Highland Society's Show at Aberdeen, in the Clydesdale class, the first award in aged stallions went to Baron $o^{\prime}$ Buchlyvie ; second to Periec Motion; third to Memento. In thre-year-olds, Montgomery s Garty Bonal Everlasting, was first, and Again second. In thown was first, and in the yearling section a brown yearling (the Royal winner), shown by the same firm, was first and champion. The cham pron lemale was Campbell, Harthill, was first with Farrel Uxor, who was second at the Royal Aberdeen). Tarrel Uxor was supreme champion here. The female champion was the King The champion (male or female) in the Aberdeen-Angus class was Mr. Kerr's two-year-old, Elect of Bellindalloch, the Royal champion, Everlasting, being reserve. Furthe.
be looked for in next issue.

## fat milk and fat meat.

Why should milk that contains much cream be accounted the best? Oream is only fat, and we do not rate the food value of meats solely by the amount of
at that they include. Dr. J. A. Gilbert, portland, oregon, writing in the Medical Record (New York) takes the view, this devotion to "rich" milk has no logical
basis. In our earnest search after a fat basis. In our earnest search after a fat
milk, he says, we have probably gone too far. To quote from an editorial in The Hospital (London, Eng.), which
Dr. Gillbert's opinion appreciatively: Dr. Gilbert's opinion appreciatively:
:/ The milk which is richest in cream "The milk which is richest in cream is
not therefore the most nutritious, for the
very simple reason that a rich milk is nory simple reason that a rich, milk in
less easily digested and absorbed than less easily digested and absorbed than a
milk in which the fat percentage ds low, milk in which the fat percentage is low.
As far as its other constituents are conAs
cerned, a milk poor in fat is as valuable
a food as a milk rich in fat. The fat a food as a milk rich in fat. The fat
percentage, the popular standard by whto percentage, the
milk is judged, is most variable, while the proportions of the albuminoids,
sugars and salts vary but little in the different samples of milk. In other words,
while the energy-producing and heat-giv ing qualities of the several kinds of milk may be great or little, the valuable pro teid ingredients, which go to the build-
ing up of the tissues-the prime property ing up of the tissues-the prime property
of any food-remain very much the same
in all varieties of cows milk. Thus a of aney food-remain very much the same
in all varieties of cows milk. Thus a
in alt, in thin" milk is for all purposes, save for
ing and and energy and heat production, as valuable deed, it not infrequently happens, as the experitental feeding of young, growing
experne that a thin milk animals has shown, that a thin mill
may prove, in the long run, more fleshorming than a rich milk, inasmuch as



Cite, 要位erature



A TRIP TO THE CHAMPLAIN TERCENTENARY CELEBRATIUN AT QUEBEC
I have trav
Thoreau.
I have always prided myself on possessing to a strong degree the happy faculty of being, able to words, I have always maintained, and trust I always shall, that one can spend a lifetime within a very he will, something new, something interesting. It is only necessary to make a study of the small things to see, instead of being blind to the
never-ending wonders that the all-never-ending wonders that the all-
mother, old Nature herself, spreads
before, before us. Nevertheless, when the
chance came of chance came of making my first
really and truly considerable trip, viz., of going, in the interests o "The Farmer's Advocate," to the
Quebec ${ }^{\text {Thercentenary }}$," with a sidetrip up the beautiful Saguenay, I wa
none the less ready to acknowledg that, if opportunity offers, it is wis to travel farther than "Concord.' The next thing was pany-for the specimen of woman
kind who is willing to go, on a lon trip, at least, ". a maiden withering on a single stalk," would be hard indeed "to find." of course, every-
body "wanted" to go to the Ter centenary, and many women, half-decided; but, wirraTercentenary : All we heard of that from s., 00 to $\$ 10 .(111$ p... day Hack $\$ 40.00$ per day. One suite of of to at in the Chateau Frontenac of rooms rented at $\$ 150.00$ a day ! ! ! Need-
less to say, this last bit of informa tion was the cause of much p
turbation to us. things straighten out somehow haven't reached (Quebec yet; I a writing this, at the present moment, side of Kingston, somewhere; but
we are going forward in the serene and lodgings at the very moderate At last I did find someone who was really going. I shall call her Trixy, and must the at this blessed minute placidly working a centerpiece. The
reason why she is contented to work centerpieces on such a trip will appear later. It's really funny-if it
weren't so ludicrously pathetic-but I If ever you go on a knockabout journey, don't make the mistake of taking too much luggage. I had been advised, so decided to start out
clamation points) at the Tercenten
ary-in fact, my wardrobe was to be
mostly minus. The first time I inmostly minus. The first time I interviewed Trixy, she stated that she
was taking two blue suits, a linen suit, a muslin dress, and several
shirtwaists. Then I " advised " her shirtwaists. Then I "advised "her
in turn, so she has appeared with in turn, so she has appeared with a
very modest suit-case. The wisdom of this lack of impedimenta we hope to find out when we reach Quebec. the way," an enthusiastic friend who had been over the route before, de Well. before we started. Well, to begin with, we set off
from London in a rainstorm. Neverfrom London in a rainstorm. Never-
theless, the way, for a few hours proved interesting enough. It is a beautiful country that lies between London and Hamilton. For some posed it was the Grand, but could not find out-hugs the track. Farther on begins the beautifully hilly counry about Dundas, with its ravines, where. In one spot we saw a sort of bluebell, as it seemed, growing thickly up the precipices by the
rack. The species yealed by hurried glimpses from the


View from Smoke Island in Canadian Channel
ake in every inch of the beal.ty.
Nothing but fog-blank, dense, ada mantine fog! You couldn't see a thing ten rods from the boat!-a
from Trixy the eternal questio Aren't you enjoying the scenery? We might have cried, but we laughed ... On went the Belleville, but a snail's pace. Un nearing the gap ronto Bay, it was necessary to throw out sounding lines every little while: then, with fog-horns booming, and
steamers shrieking on every hand, we were fairly into the harbor. glimpse of the exhibition grounds and buildings, gleaming spectra through the mist, with one dome
sparkling fairylike above a jumble chimneys, more bellowings of steam ers, and we drew slowly in to the slip at the foot of Yonge $S$ t.
A jaunt up-town-to Eaton's, A jaunt up-town-to Eaton's, of
course then off again at $7.30 \mathrm{p} . \mathrm{m}$. More fog, more fog-horns. more steamers booming at every turn, our own shrieking at intervals of
minute! $8.30-$ fog, fog-horns, whis thing! 9.30-fog!' fog! fog ! To Farmer's Advocate,"- truly of "The long I wrestled with the conviction
that the "Belleville" whistle
along the adjacent shore, glimpse of islands, among which tugs and launches ply, everywhere-and, Ha - "

Thursday night, July 23rd.-I at writing this on board the steame ferred at Montreal. Since writing last, there has been a never-ending kaleidoscope of hill and wood, rive and town, the latter snuggling down
to the water's edge, so that we could obtain glimpses of them all through the night, through the open window of our stateroom-a beautiful trip
which I wish all the readers of "The which 1 wish all the readers of "The
Farmer's Advocate " might have shared.
Some time yesterday afternoon we passed Kingston, the "Sandhurst", and its walled fort strageling over the top of a bare hill. There you journey of Champlain, of his painful hap with the Iroquois in his misimmediately north-west of this point where he stayed for a goodly share situdes of the dull winter. . The vicisston have been many. The first fort alled by the Count de Frontenac, and called Cataraqui, was alternately
seized by the French and English and was finally destroyed by English, ish under Col. Bradstreet in 1758 he present structure grew up in its race, and was for its time an efintruders. Passing Kingston, the steamer slaws quickly into the Lake of 1,000 ser more than one thousand, and exriver. It was dark when we passed the greater number of them, but we of seeine the illuminations which help) to make the wealthy Americans who
summer at this beautiful spot (esthey have not be'n separated wholly from the glare and scintillation of
New York. Imagine steaning through channel after channel for a distance
of some miles, every foot of which is sands of lights placed in rows and crescents and towers among these seemed to concentrate-a the brilliance burst to the scintillating chain of
diamonds-for every line and angle of
$\qquad$
 we had been so fortunate as to se- are consoled, fur . we found out that several, women "In the meantime, why shidn't. lights rommen and round over the glit included, had been obliged to slsep Trixy work centerphay "hy shouldn't terine some. At one point the light 'clock the steamer cast off and pro- ing to see but that interminathe then "u pore party gathered among Burlington lay. We could ser the then andoses in the through, cemt wimmer homes. Instantly the



the grass the swayi their graceful white gowns. of something you had seen ream, stage, but so much poorer a stage
than this-and then you were fif again down the mighty St. LawPast Prescott, with its historic
windmill, in the night. windmill, in the night; and Morris-
burg, near which the Battle of Cornwall, and was fought, past towns ; then up at 4 manufacturing morning to see the rapids of the Long Sault, whose turbulent billows, you remember, turned back Chamabat he was obliged to continue with
the Indians by canoe. Well indeed
the the Indians by canoe. Well indeed
might this rapid turn back so slender and down like a cork on its mad
and seething surface. It was our first
experience of a real rapid, and we waxed enthusiastic, quite oblivious f the spectral-lookin figures in hastily-donned raincoats nly to hasten back to bed again wait time for breakfast. It may be interesting to note that, with its
machinery almost stopped, the steamer is hurried along this rapid at the
rate of 20 miles an hour; also, that the first pilot who dared to guide a steamer down this perilous passage
was the Indian, Terorhiahere I wish I could tell yow in deta o-day's voyage ; of the great So langes Canal, over twelve miles length, with its locks, operated and
lighted from end to end by elecat its entrance into Lake St. Louis the Ottawa and St. Lawrence meet;
of the first vision of the heautifur City of Montreal, its domes and spires gleaming in the sun, its great mountain-the old Mont Royale-rising like a rampart in the background,
and wooded to its summit : of many other things, but space will not perWe took a hasty run up into the city-a strange city to us, with
French signs everywhere; French
words almost anywhere to be seen in their long black robes; but we had only
time to visit the fine gray-stone time to visit the line gray-stone
court house and city hall, the Bonse-
cours Market, and the great cathedral of Notre Dame, which Thoreau
described as "a great cave in the nidst of a city," when it was neces This is, a beautiful vessel, this
Quebec," which is hurrying us along as I write, and it is 0 loaded
from stem to stern with passengers. rom stem to stern with passengers When getting our tickets at the miged to step into a line which
itemed to take hours to dispose of of
it was amusing to hear the remarks me man behind me was especial mpatient. First he grumbled the they were making the tickets was "holding up the whole line -ral minutes, he gave voice to on "xplive, uttered wiw, don't rea hat if you are easily shocked. 13u hughed. It was so abominably hot
in that crowded line, in that stuffy rord, an escape valve somewh he spoke for the "rowd. dinner night-everything from caviare on thast, down-or up-and anore or less, silver finger-bowls . To morrow morning we shall he at the Mecca of
tourists in North America at the Tresent time-Quethect have read much of the great Tercentenary in the
daily papers hefore yon get this, hut possibly you may not mind wading
some more about it cvon laterytill),
from the standpoint of two sirls to some more about it cern from the standpoint of two girls to
before, has picked up a few English words, and these he delig
when opportunity occurs when opportunity occurs. I ask him, on discovering, without
the use of my eyes or my ears, that the use of my eyes or my ears, that
some of his visitors have arrived, "Who is that? and that? and that?" ""Him brudder of me," he
replies, and grins as he sees me replies, and grins as he sees me again, by way of expressing that might be counting them forever, and yet never come to the end of the oy's relations. His father, a petty
hief, has fourteen or fifteen wives, chief, has fourteen or fifteen wives,
so no wonder that Boxer in duplicate is perpetually turning up. Of course, the raison d'être of these


Montreal, from St. Helen's Island.
that infernal racket," and most cer- visits is really the porridge pot tainly I can't write in it... Now rather than an overwhelming affiec I hear him informing his wife that tion for the special member of the
the boat "stops every hour all family who happens for the time bein night and stops every hour all that ", but I am afraid he is a au revoir ..... It is 10 p. m., so

SOME NOTES FROM MY OLD LOG IN SOUTH AFRICA.
SOMETHING MORE ABOUT BOXER

The endless string of relations who vis't Boxer-women with their babies, and a small fry of tiny runabouts of
all ages, men full grown, and youths family who happens for the time being
to own it; and to it all are made welcome, as a matter of course, one big come, as a mater of course, one ind no cleansing ceremony being ever required as it passes from mouth to
mouth. To scrape a vessel until it mouth. To scrape a vessel until it
has yielded up its last atom, is the has yielded up its last atom, is the
Kaffir idea of washing it, but, all the Kame, there, is a Kaffr word which
same stands for washing. It is "" soola,"
and now I will tell the story I promand now I will tell the story I prom-
ised, of how Boxer's successor, ised, of how Boxer's successor, a
smaller edition of him, and a better, "s soola-ed" my frying-pan.
dark-eyed laddie would do the little dark-eyed laddie would do the job,
and, peeping through the crack of


Steamer "Brockville" in the Long. Sault Rapids, in St. Lawrence
$\qquad$ in every stage of growth-have be- the door, thus was I rewarded for
 I say it as shouldn't-distinguished my greetings to them hitherto have exen waved my hand to a whole tonus not to be misunderstood, in spite of a limping accent, "Hamba,
hambatate." a kind of quick-march in sonth Airica. a dog understands my pains. "Oomfan"--literally, boy or youthfirst of all, clicked with delight at spyrg a rew, very few (for grease is
a rare commodity in Kaffir-land), greasy leavings. These he chased round and round with he chased finger, licking it again and again as it re-
turned to the point of departure, until no grease could apparently be seen. But there might be a vestige
left, thought the boy, and "Oh left, thought the boy, and "Oh!
how nice for my wool." Upside
down went the pan, hat-fashion, on his pate, which he whirled like a mop therein, until.I thought he must
drop from sheer giddiness. drop from sheer kidin, and although, to his mind, no further cleansing could be needed, yet, just a finishing touch with the tail of his abbreviate might give it a shine, and tha should not be denied it; and then with a parting sigh of regret, oom fan hung the pan upon the nail ap-
propriated to its use, where the ants soon swarmed over it in myriads vainly believing that it was a feas spread for them
One more story of Oomfan, and I
must stop must stop. The food problem, so was alway irom all sources of supply, on taking possession. difficult one; so larger hut than we had had to put up with hitherto, we started a sthal henhouse, and at first considered that half of our diffculties were surmounted dad-abouts, and wholly in are sad gad-abouts, and wholy in
different as to where they deposit different as to where they deposit
their eggs. The supply failing, locked the henhouse door, thinking to remedy the matter thus. Losing
the key-a mishap not confined to to the key-a mishap not confined to
country or climate-I applied to Oomfan in my difficulty. "What dismayed by a trife like that !'
seemingly pooh-poohed he in volubl Kaffir. Darting to the henhouse, he laid himself down outside the little square hole built for the accommoda-
tion of the hens, elongating his body and compressing his bones by a "somehow" known only to himself, he wriggled through the hole and out again, with several unbrok en eggs in the
by little shirt.
The years which have passed since my diary was penned must have wrought great changes in the Kaffrr
of South Africa, not only politically, but temperamentally. I doubt if it could now be recorded of him that his recovery from accidental wounds would be so speedy as to seem al mishap to a little lad who, whilst acting as forelooper, gashed his foo horribly with a hatchet. Out cam driver " plastered him up properly." As soon as the process was over the boy shuffled off on his barefooted tramp again, almost as if a new foot start with. I was told in Pieter maritzburg, of one whoss head had been crushed by the falling of a
stone in a quarry. The bone wa cut away, and a silver "The beggar will run away with it
if $I$ don't keep my eye wog if I don't keep my eye upon him,' said the doctor who had operated up-
on him. He walked off after all was over, and was well in a month. So much for a simple diet of mealy-meal
porridge from year's end to year's end porridge from year's end to year's end
Surely this meal-Indian corn ground -must have great life-restoring prop erties, when men of such caliber a the "noble savage" of South Africa are nourished into a vigorous man
hood by it.
H. A. B. VISITS AN ONTARIO FARM While absent on my little holiday I spent a delightful day on an On
tario farm, where I had most satis factory proof that it is quite possible to be English, and yet lead a happy prosperous life on a Canadian farm notwithstanding
the come
my brothers, sons of an English rector They had mastered every detail o
farm life, and very seldom had any farm life, and very seldom had any
hired help whatever, the young wife of the married brother churning her butter, minding her poultry, etc., as
deftly as if she had not dertly as if she had not been, not so very long ago, a young lady at
boarding-school in the old Land. As a native-born Englishwoman my self. T was proud to see such adapt ablicy, and such perfect content with
the land in which these younger folk had cast their lot; and it was pleas ant to meet the good old "Farmer's hold friend and adviser.

APPRECIATION FROM SOUTH AFRICA.
H. A. B. also encloses the follow ing quotation from a letter recently received from a friend in England :
" I think I must copy what Stephen says about ' The Farmer's Advocate in his letter of last Saturday 'Thanks so much for ". The Farm er's Advocate. is a splendid paper, and, although applied to Canadian farming, ver many useful hints can be found for South Afric much my son appreciates

## The Quiet Hour

THE WITNESS OF THE GRAVE. CLOTHES
But Peter arose, and ran unto the seeth the linen clothes by themselves; and he departed to his home, wondering t that which was come to pass. S uke xxiv. 12 (R. V.). came first to the tomb ; and stooping and looking in, he seeth the inen clothes lying; yet entered he not a. Simon Peter therefore als into the tomb; and he beholdeth the linen clothes ying, and the napkin that was upon His head, not lying with the linen clothes, but rolled up in a place by itself. Then entered in therefore the other disciple also, which came first to the tomb, and he saw, and believed. For as yet they
knew not the scripture that He must rise again from the dead.

```
Ah! sure within him and without,
```

We live in a world of progress; even
he unchanging
eligion are seen from a new point of
ing beauty which was always there
ing beauty which was as ase As electric-
though it was veiled before. Aorld, with all
ity was always in the worl
ity was always in the world, with an
to discover and use, so many great
treasures have for ages been lying unno-
iced in God's two great books - Nature
and the Bible-revealing their mysteries
in these latter days and coming upon us
ith all the freshnes,
Why should we fear
of God's Word fear Christiani
igion of facts as well as
ruths, and microscopic inspection
ontinually bringing to light facts tha
have been overlooked, as witnesses to the
truths which can be grasped by faith
ruths which can be grasped by faith
alone. God does not demand a credu-
lous. belief in unattested prodigies. The
true definition of faith is not that of the
small boy who sala know are not true.'
lieving things we kne
Faith does require us to believe thing
Faith does require us to believe things
that are beyond the reach of reason
nevertheless reasoning faith is the only
nevertheless reasoning faith is ane only
possible kind of faith for sane people
we bolieve thousands of things about
We believe thousands of thinge cannot
this physical world which we
understand. Who can understand how
the chicken is formed in an egg, how
the blossoms on the trees turn to fruit,
blood, nerves, muscle, etc.? If we can
not understand the physical world, hor
much less likely is it that we should
entirely comprehend things spiritual and
I have just been reading a deeply-in
eresting book called "'The Risen Mas
ber." by Rev. Henry Latham; and, a
lany of our readers may not have th
ry to pass on a few of the thent
ontained in it. Perhaps another wome
ook, sut todiay
The disciples who hurried to the tom
The disciples who hurried to the to

THE FARMER'S ADVOCATE
had been wound like bandages many
times around the Body. For many centimes around the Body. For many cen-
turies men have passed over with scanty turies men have passed over with scanty
attention the fact that the sacred record brings prominently into notice that ap-
parently insignificant detail-the position parently insignificant detail-the position
of the grave-clothes, or "cloths" as the of the grave-clothes, or "cloths" as th
R. V. gives us the translation. Now arter- nearly 2,000 years, those swathing
cloths cloths suddenly take their place as they
did that great Resurrection Day among did that great Resurrection Day among
the strongest proofs of the foundation Fact of Christianity, S. John, in telling his story of his visit to the tomb
declares emphatically that when he be declares emphatically that when he be
held those cloths he believed that Christ held those cloths he believed that Chris
was risen. He could not imagine tha was risen. He could not imagine that
friend or enemy had removed the Body
and left the clothes behind, bechuse their rriend or enemy had removed che the thes behind, because the
and left the chowed that to be impossible
appearance showe Those who have carefully studied th
Greek account throw light on the my Greek account throw light on the mys
tery. The Body had been swathed in cloths, wound round and round lil
bandages, with a hundred pounds bandages, with a hundred pounds
myrrh and aloes strewn within the fold These cloths were now "lying flat," without disarrangement, weighed dow by the spices. They had not been un
wound nor disarranged in any way. Ou wound nor disarranged in any way. Our
Lord's Body had mysteriously changed its nature, changing probably, as S. Pa expresses it, from a "natural" body a "spiritual" body, and passing as easil
as the air itself through the cloths which immediately fell flat on the rocky slab. The napkin which had been twist-
ed like a turban about his head, still kept its "twirled " shape - it was "wrapped together." It is also said t
have been "in a place by itself." have been "in a place by itself.". It
was probably lying on a raised pillowlike slab where the head had rested, and was some distance from the rest of the between the wrappings of a corpse and the head-covering in many Eastern countries to-day. Often the face, neck
and upper part of the shoulders remil
uncovered uncovered. See how this fits in with various incidents of that Day. Mary
Magdalene saw two angels sitting, "the Magdalene saw two angels sitcing, the
one at the head and the other at the feet, where the body of Jesus had lain."
The silent Sign of the Resurrection lay The silent Sign of the Resurrection lay
between these guards. No one could be allowed to disarrange that unmistakable testimony until its work was accom-
plished. S. Matthew speaks of an angel plished. S. Matthew speaks of an angel
who sat outside on the stone and who Who sat outside on "he stone and who where the Lord lay." He was evidently inviting them inside not to see only the negative witness of an empty tomb, but
to be convinced by the positive witness of the grave-cloths. They were so
deeply impressed by what they saw that they ran, with fear and ""great joy," to tell the disciples. An empty tomb would
not have instantly turned their terrible In S. Mark's account we read of a
young man dressed in white who sat within the sepulchre on the right side.
Ho drew the atlention of visitors to the mysterious witness of the cloths, saying,
"Behold the place where they laid Him." It was not an empty space nor a pile
of disarranged cloths and scattered spices that they saw, for such a sight win'd
not have impressed them so that they S . Luke says that when the women words seemed to to them as "idle tales, and they believed them not." They had
no reason to question the good faith the women, and, if they had only said
that the Body was gone, the statement "idle tale." But people are seldom very willing to believe a seeming impossibilto lelieve that the Body had gone, leava new thing in their experience, and we
are always slow to believe new things, wany apparent impossibilities-we don' many apparent imposstnmities- we don't
disbelieve in the possibility of talkiny to
people many miles away through a teleThone, or sending a message by wireless
$\qquad$ clothes would certainly not be unque
tioningly accepted. seems to have imagined that the B o
she slowly returned, after running with

longer a natural Body, but had become so men would be prepared to believe in spiritual Body. It was completely the foundation Fact of Christianity-the
under the control of His will. He ap- Resurrection of Christ. peared or disappeared at will, passed And what shall I say about ourselves? other form." when He did not choose to A mything is impossible, in these days be recognized, and yet could draw at- anything is impossible, in these days on tention to the unmistakable marks of most unscientific form of mind; and, un-
His identity in hands and feet and side. less we take that obstinately foolish When the disciples were afraid, thinking position and deny the possibility of the hat they saw a "spirit, He that He Resurrection, we must own that critical
then to "handle", Him and see had substance and form. A spiritual that Event show that it was not a fabbody is something outside our experi- rication. Such undesigned coincidences,
ence is it strange that we are puzzled fitting prfectly into each other ence, is it strange that we are puzzled fitting perfectly into each other-coinci-
by the description? But let us return
dences that have passed unobserved for to the witness of the grave-clothes. $\begin{gathered}\text { dences } \\ \text { centuries, or at least have attracted }\end{gathered}$ That Faster alternoon two of the dis- very little attention-prove to any un-
ciples were joined by Christ as they prejudiced student that they are not inwalked to Emmaus. They did not vented. The writers were evidently
recognize Him, but told Him how some telling their story in good faith. And of their friends, who did not believe the it is a great help to us to know that chre and "found it even so as the women the evidence for Christ's triumph oven that the tomb was empty it was strange $\begin{aligned} & \text { scrulting, though they wish to believe, } \\ & \text { doubting, thoug }\end{aligned}$ that they should use such a roundabout need not fear to seek for proof. God
expression, which is far more positive does not force our belief, and yet He
thaur than negative. liesides, they would provides " many infullible proofs "
hardly have seemed so ing that the tale of the women was them. The promise that those who seek that the tomb was empty. But such shall "find" can be depended on. Thoso
$\qquad$
s. John, she was blinded by tears and And kindy eyes, and lips grown softly
 While the other woumen were filled with There is $a$ s. something in their quiet grace
$\qquad$
$\qquad$
$\qquad$
$\qquad$
It is sugrestect that the witness of
and ..... $=$

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Those "Big Little Things."


SUPERFLUOUS HAIR.

 hiscott dematological institute. Dept F. 61 College st., Toronto. Established 1892.

Farm Properties Wanted.
Parties having farms for sale may send
particurarsof same to the Provichaial Iureau
of Collonization for the information of pro-
 where. The Bureau will not act as a a broker
for the esale opropertises. but will direct buy
for

THOS. SOUTHWORTH,
HON. NELSON MONTEITH,

CENTRAL BUSINESS cOLLEGE, TORONTO. The largest a and best-equipped school of its kind invites you to write for its New Catalogue. Fall Term from Sept. S. Ahaw, President, or E. R. W. H. Shaw,
Shaw, Sccreary

SPECIAL NOTICE TO FARMERS' DAUGHTERS



## STRONG TESTIMONY

Backed by the Test of Time Given Carey's Roofing. "I believe we were the first to , wse
Carey's Roofing in Youngstown, O .." W . Cares's Rooring in Youngstown, O, W.
E. Baldwin wrote the Philio Carey Co.
latst Aroil. "We were unable to procure last April. " We were unabie to procure
it from agents at that time, and bought it it from agents at that time, and bought
direct from you in 1887 . We put it on our direct from you in iss. suildie p, and anter
thee-story busing
twent-one years of service we have never twenty-one years of service we have never
had a leak, and the roof in its appearance looks as
putit on Doesn't that sound good? And yet Mr.
Bald winn's roof fis in the inf Baldwin's roof is in the infancy of its use-
fulless, for a Carey roof lasts as long as the building stands.
Progressive farmers are learning (some
from sad experience) that in buying roof from sad experience) that in buying roor-
ing, it doesnt pay to figure on first cost. A. "cheap, roof means areaky roof every
time-an expensive "white elephant" on time - an expensive "white elephant"
your hands as long as it lasts. your hand sas long as it lasts. . Corefing. It is a one thandard Ros.
the the national roofing, best alike where sun
shines botest stines hottest or winters are coldest.
Enough testitonals ovoluntary tributes to
the enduring worth of Careys Roofing the enduring worth of arem a book as big as a dictionary. All that is claimed for a Carey roof has been verified by actual experi-
ences. Farmer John Hunn, of Wyoming, ences. Farmer John Hunn, of Wyoming,
Del., after ten years of satisfaction with Carey's Roofing, writes s. "As far as I
Can see the roof is good for tenty can see, the roof is good for twenty years
longer., Carey's Roofing is made of Carey's
special-process Asphalt Cement, with the best woolen felt as a base and East India
burlap imbedded in the surlap iment-all compressed into flexible
the cement sheets. The Carey Patent Lap completeIy covers and protects nail heads.
Carey's Roofing ranks in value with an insurance policy. After the great Balti-
more fire, City Inspector Louis $S$. Wilson wrote officilly: "Burning embers seem to have no effect whatever on Carey roors.
Buildings covered with this roofing, directly in the path of the fire, are in no way in need of repair," Carey Co. direct, and they will send free bookformple, testi-
monials, prices and information how to get their roofing. Address : The Philip
Carey Mfg. Co.. Toronto and Montreal.


## POWER LOT

A Story of "Down East."
by sarah mclean greene.
[Rights of tublication secured by the Wron. Weld
Co., Limited, London, Ont.]
CHAPTER XIV.-Continued Mary came to the door as we drove cold ashes, the job of bringing tha fine old fellow there, to confab and talk high-flown language along o'
her. My sympathies just fairly gushed out all of a sudden, toward poor Rob Hilton, beating awey a his work in the potato field. "H used to be teasing me to sail him
over to Waldeck," thought I to myself. "Well, he shall go to Waldeck, and have a good time, too, and as he likes-consistent with as merry out of the rum-fiend's clutches." I got rid of Doctor Margate a brusquely as I could at Mary's door, and acknowledged her smile of greet-
ing with a short nod. Then I went over to Captain Byjo's and deposited the great man's heavy valise, lik any truckman ; and coming out, He lifted up his head, and bit his lip ; and-yes-there were the cruel lest kind of tears in his strained eye to speak: his mouth quivered seem "Hello, old man," said I, and could not help putting an arm along with him, but I feen familiar with him, then and forever. "Bear bear says 1, "you and I got to the tune, same as you," says I us ; we'll beas ain't goin' to swalle steer right on," says I. "I'm goin" am man a " You don't think that," says he and being all of a sudden familia with him fill a his soul.
you give mean it," says I. " Don't was made able to steer right on, it's you, Row Hilton. If you don' know it yet, I know it, by all that' " All right," says he; and it may be a big word, considerin' the oc casion, but I felt immortal strength o' the poor boy's hand. Now, look here," says I; "say,
when your first batch o' potatoes is ready to dig, what do you say to a know a fancy price for them. Well load 'em on to the boat, and if you will help me a little with some othe the business shan't cost you a penny "and I'll be glad of your company." a streak of sunshine Rob, with " when I asked you to take me ove -that you chose your own com":AAn't pany?" said I. " I'd rather have you sail with me-honest, Rob-than any other man I ever met anywhere Us." Any other man. I did not know
then that Rob had heard Mary Stin garee that moonlight evening, when she said slightingly that he "was
not a man at all." I did not know why in thunder such a high light blazed from his face at my words. A
sail to Waldeck to sail to Waldeck to sell potatoes
wouldn't seem much of an to anyone who had once possessed what Rob Hilton was born heir to. off here so long, the he's been shut sail is like wine to him. His shoulders were set mighty
square, considering what seemed the childishness of his emotion, and the
way he gripped my hand proved thet way ne gripped my hand proved that
the old salt ham he'd played with

1256
HICHLY IMPORTANT SALES OF Pedliree Border Lelcester Sheep. deen-Ansus and short-deem-Ansus and hatte.
Border Leicester Sheep. WEDNESDAY, 2nd September iext, at

 arabella and rosebaveh





Pedigree Clydesdale Horses.
MoNDAY, 14th Soptember next, at Perth
 incluing es seoctis, onisigment of 1,2 $\xrightarrow{\text { from }}$ toun Caste
Pedigree Aberdeen-Angus Cattle. TUESDAY, 15th September, next, at Choicely-bred lot of Pedigree Aberdeen-
Angus Cattle, belonging to Mr . Robert-
 Ballindalloch Uastle Beellindalloch, 'Hale
of a Large and Select Portion or the
World-renowned Herd of Aberden-
 loch.
THURSDAY, 17th September next, at
Mulben Mains, Muiben, Sale of a very choice portion of the Celebrated Herd
of Aberdeen-Angus Cattle belonging to Of Aberdeen-Angu
RIDAY, 18th September next, at Ward-
ends, Banfi, Joint Sale of Uho
enely-bred Abbrdean-Angus Cint Satto, of Uhoicely-bred
Aboonging to
Mr. St. Ulair Simpson and other noted breeders.
WEDYESA, 23rd
Myze Farm, West
Weptember next, at
Wycomber hamshire, Disporsion Aale orn ing
Choicely-bred Herd of Aberdeen-Angus
Cettle belonging to Sir Robert Dash-
 sion Sale of the Celebrated. Herd oit
Aberdeen-Angus Cattle belonging to
Mrs. Macpherson, of Wyrley Grove. Pedigree Shorthorn Cattle SATURDAY, 10th, October next, at the Renowne Herd of Shorthorn Cat-
the, numbering 60 head belonging to the
tepresentertive representatives of the thate David to the
Esge., $\begin{aligned} & \text { lit. Barrelwell, Brechin. }\end{aligned}$ Hume,
 Auction Market, Perth, Select Joint
Sole of High-clas edigree Shorthorns,
from famed Breeders in Perthshire and
frest from famed Breeders in Perthshire an
Midland and Southern Counties.
 crop of Sherthorn Bul Calves from
the world-renowned Herds belonging to
Mr Willime Duthie, Collynie, and Mr. John Marr, Upperminctober next, Joint
WEDNESDAX Sale of Pedigree Shorthorns. from the
Famed Herds belonging to A. M. Gor
Ho don, Esq., of Newton, Captain Gordon of Coombscausey, and Mrr. John Wilson,
PPrirresmill,
THUSSBAY, 15th October next, at the Agron, Great Sale of High-class Pedigre

 ness Auction Market, Inverness, Grea
Sale of of High-class Pedigree Shorthor
Bulls, Cows, and Heifers, belonging to Members of the EHilin, Inverness, and
Northern Counties Shorthorn Ereeders Association.
NOTE--Special attention is directed to
the foregoing Sales of Pedigree Sheep
Horses and Cattle as thoy will He foregoing Sales of Pedigree Sheep
Horses and Catte, as they will aftor
buyers one of the best opportunities tha buyers one of the eset opporturieg ani
has yet been presented of securing and
mals, not only of the chocest breding
but also of the greatest individual merit
MACDONALD, FRASER \& CO., LTD., Perth Auction Market, Perth, Scotland

## SORIE SHOULDETS



$\qquad$
$\qquad$
in the Stingaree shed must have sufiered some severities before he go " "I won't forget this, Jim," say he ; and he added with regular eager first crop will be ready in about three weeks now." " " I'm your man," says I, " whe you re ready. drive down the hill by the Joggins road, and I took the steep way, never heeding. The old horse con
dioned my forgetfulness with periect wisdom of his own. The descent was an enterprise that required care, and in spite of my pricking and urging,
he did most certainly take he did most certainly take entirel Captain Belcher and patriot saluted my ultimate landing on "/vel soil.," said Belcher.

Why, Ed. Nedds an' me was bet tin', for the last three or four hours, as to whether ye was goin' up the
hill or down it. I took the caution to jedge by lan'marks, an' I het - down,' an' here ye be, Capting. I
consider that I ain't wasted no time watchin' of ye, neither, for it was as interestin' inch-wormin' a sight as I ever see.

Chapter XV She of the Whip-hand
Mary Stingaree and the doctor sat
out on the porch together; vines hid its rotting timbers; beauty covered all its defects during the brief mar-
vellously bright summer in thi northern clime. The little por
faced the grandeur of the scene. "I could not write it to you ful; he was doing so well, until the enticed him down there, and he fell-
he drank again-and-was married; he drank again-and-was married
trapped into it, I understand, bu
married, to girl down there at the River. ". Yes, I heard that rumor. The there might be some mistake alout that. He says the truth concerning Che affair all lies with a certain

- Captain Belcher, if he could only few other participants, including Rob himself, were too muddled to scene that would serve as reliable ". Surely the girl herself would ". She is as courageous as Captain Belcher, I am told What she af
firms, that she will swear to, and blench not, neither be confused." "It is possible then, you mean
that Rob was not marriced to her?"
". Jim . imated that such a doultainly was ad
 knowledges it, and-though he h
never gone to live with them do here he is working with all
night to make a home for her ".
"I shall have the muviery
$\qquad$
$\square$ was never soler long chough tol
comprehensively and connectedly and or assume


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D. McLachlan \& Co., Chatham,Ont


gossip.
$71 \times 11$-inch photo-ngrav-

This country is poopled by a proud raca
of patriots, who are Conadians on Dominion Day, and Grits and Tories all
rest of the time.-[Toronto Tolegram.

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\begin{aligned}
& \mathrm{s} \\
& \mathrm{y} \\
& \mathrm{y}
\end{aligned}
$$

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\begin{aligned}
& \text { The high price of oats, which has been } \\
& \text { so steadily maintained during the past } \\
& \text { vear or two, has increased the keap of }
\end{aligned}
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\begin{aligned}
& \text { horses to a degree necessitating increase } \\
& \text { of board rates by livery stables, riding }
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& \text { of board rates by livery stables, riding } \\
& \text { schools, and other similar institutions. }
\end{aligned}
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\begin{aligned}
& \text { schools, and other similar institutions. } \\
& \text { While a good thing for the farmer, this } \\
& \text { has ben oretty hard on horsemen. Many }
\end{aligned}
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\begin{aligned}
& \text { explanations bretty have on horsemen. Many offered for this } \\
& \text { her }
\end{aligned}
$$ explanations have been offered for this

unprecedented long-sustained rise in price but the most reasonable one we have heard is the demand for oats in preparing patent brease will continue depends upon the popularity of these breakfast foods, a well as the supply of oats. It is certain
that the supply of oats will be increased that the supply of ats will be increase
as soon as the farmers can plant mor acreage, which they are bound to do in
order to reap the profit from the inorder to reap the proft from the in
creased demand and the present. high

## creased demand and the present. high prices.

Mr. J. C. Ross, Jarvis, Ont., writes,
reminding , readers of "'The Farmer's reminding , readers or till breeding high-
Advocate that he is sta
class Cotswold and Hampshire sheep, and class Cotswold and Hampshire sheep, and
is prepared to furnish old customers, and allo new ones, with choice stock this
season in both breeds, having a large number of choice quality to select from,
which he is prepared to sell at prices to which he is prepared They will be sold ac-
please everybody.
cording to quality, and his past showyard record at leading shows in Canad
and the United States will justiy
statement that he breeds and import
the best. A new importation is now
the way from England, including some
the choicest specimens that can
hought, and Mr. Ross is now open
bought, and Mr. Ro.
book for fall delivery.
QUESTIONS AND ANSWERS Miscellaneous
WITCH-HAZEL TO FIND WATER.

1. Do you put any faith in the finding
of water by a witch-hazel or apple-wood
crotch?
2. Why will it act with some people and not with others? ence with this method of finding water,
 hazel or apple-wood crotch should turn
and indicate water; consequently I have no confidence in it. On the other hand, no condence host estimable people de-
I have heard mon
clare that they had seen this method inclare that they had seen this method in-
dicate correctly the place where water dicate correctly the place where water
might be found, while only a short distance on either side dry wells had been sunk. It would be hard to convince
man who had had such experience that man who had had such expeitch-hazel or apple-wood crotch for finding water.
I may add that there is an automatic spring-finder manufactured by w. M field \& Co., Liverpool, England. A
pamphlet
describing the instrument say pamphet describing the instrument says:
. The principle on which the instru-
ment ment works is the measuring of the
strength of the electrical currents which are constantly flowing between earth and
atmosphere, and which are always strongest in the vicinity of subterranean water
courses, the flowing waters of which are courses, the flowing waters of which are
chargod with electricity to a certain dogree. Should a subterranean spring
present under where the instrument ha been fixed, the needle commences to mover
note being carefully taken of the number note being carefuly daken of the position
of degrees on the scale, and tre
of the instrument changed from time to of the instrument changed from time to
time, the spot where the greatest movement of the needle has been obtained
being that where the well-boring should ${ }^{\text {be made. }}$ If the needle remains stationary, may be taken for granted that a sub terranean spring ins where the instrument is ifed."
spot whe wit thehazel or apple-wood crotch not being a magnetic needle, we cannot
attribute its action (?) to the electrical attribute its action (?) to the electrical
currents which make the needle move in
the automatic spring-inder referred to. the automatic spring-finder referred to.

Consumption



ONTARIO mand on miloconemat LADIES Whar, oinc. COLREGE P $T-4=4$


## Woodstock College

WOODSTOCK, ONTARIO

 Enathorebh whomicic mining, teache



 Chine rex ${ }^{\text {chem }}$
A.T.MacNelll, B.A., Principa

Reidentas 5230 : day, 50 .

## Cg 3 <br> WILSON'S <br> FLY <br> One paoket PADS ${ }^{-2}=$

DRUGEISTS, GROCERS and GEleRLIL STORES
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CLYDESDALES One 1.75-1.b. . Fyearold mare in foal. One 5year
old mare and one 3 yearrold mare.

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 | wanted in every ceunty. . . . $\mathbf{S}$., Kingston, Ont. |
| :--- | The students of an Eastern college

grew so reckless in their behavior that the professor thought to improve
conduct by a lecture on morality.
They
They conduct by a lecture on moratity. Miey
listened with due summision and humi-
ity. In the course of his lecture he said: "My young friends, the foors of
hell are paved with champagne automo hell are paved with champagne, autoono
biles and chorus girls."
He was horrified to hear one of the students say in a


## Get acquainted with <br> Black Watch

the big black plug chewing tobacco. A tremendous favorite everywhere, because of its richness and pleasing flavor.

QUESTIOMS AMD ANSWERS. Veterinary

INJURY TO TAIL
A ridge appeared last yoar on heifer's
tail, about a foot from the root, but it tail, about a foot from the root, but it
gave no trouble. About a month ago
it reappeared, it reappeared, and extends all around the
tail and is quite sore.
W. B. Ans.- She has had her tail injured it
some way. Dress three times daily wit some way. Dress three times daily
a lotion made of 1 oz. laudanum, 1 a lotion made of 1 oz. laudanum,
chloroform, 4 drams a cetate of lead, an
water to make 8 ozs. If it becone water to make 8 ozs. If it becone
raw, dress with carbolic acid, 1 rart raw, dress with cars
sweet oil, 25 parts.
COW WITH COUGH Old cow has had a bad cough for some
time. She coughs worse after drinking or if chased by a dog. Sometimes whe
coughing she discharges from nostrils. coughing she discharges from nostrils.
She will calve in october. W. H. B.
Ans. - The symptoms indicate pulmonary Ans.-The symptoms indicate pulmonary
tuberculosis, for which nothing can be
done. definite diagnosis is to have her tested with. tuberculin by a veterinarian. There
is little doubt she is tubercular, and it is little doubt she is tubercular, and
her udder is diseased her milk will ABSCESS
Pregnant mare's leg swelled up last
winter when she stood in stable, but the winter when she stood in stable, but the
swelling disisppeared on exercise. She
became and her leg broke and ran matter at the pastern joint. I bathed it three times
daily and it healed, but it stills swells deily and it healed, but it stills swell
when she stands, and the swelling does not all disappear on exercise.
Ans.-She
received
a
A. Wruise
in some way, and this caused an abscess, from
which the tissuues became thickened. Get which the tissues became thickened
a liniment made of 4 drams each
iodine and iodide of potassium, an
ozs. each. glycerine and alcoho,


No Fan, No Tank, No Freezing.
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IMPORTED CLYDESDALE FILLIES
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SIMCOE LODGE CLYDESDALES


## OAK PARK STOCK FARM HACKNEYS

|  |  |
| :---: | :---: |
|  |  |



QUESTIONS AND ANSWERS Miscellaneous.
trees damaged after sale. A ofers his farm for sale. B comes
along and buys it in May of 1907 , but $\underset{\substack{\text { along } \\ \text { will not get poosession untll } \\ \text { october 1st, }}}{\text { In }}$ 1907. In harvest time A turns his
hogs in the orchard of young vium his hogs in the orchard of young plum and
young apple trees. Then, when B moves young appie trees. plun,
on the farm, ten the tres are peeled right around and are dead, one plum
tree and three apple trees are do tree and three apple trees are damaged
by being partly peoled.
Neighbors tell by being partly peoled. Neighbors toll
me they were all bearing tres. $0_{\text {They are dead }}^{\text {damage can }}$ a a constant reader. Ontario. Ans.-Whatever is reasonable. We
cannot say what amount could covered. It would be just such as the judge (or judge and fury, if case tried
in that way) might be disposed to give. in that way , mighrrier-CEMENT MIXER.

1. Ensilago-cutter carriers run with a
chain from a sprocket $2 \sharp$ inches in diam-

 sprocket 94 inches in diameter (it has
44 cooss on it.
From this same bottom shart there is another sprocket with 12 cogs and 4 inches in diameter. Chain
runs trom this last sprocket to carrier. runs from this spas
Carrier has a sprocket with 44 cogs and 9 Cinches in diameter. The frst chain from main shatamerens so fast that it is
hard to keep it ons is in thought of runhard to keep it on. I thought of run-
ning it with a belt direct from main ning to wirn
shaft to carrier. . ould you tell me what size pulleys I would ned to run it the same speed as with tho chain? ${ }^{\text {I }}$. $\begin{aligned} & \text { have } \\ & \text { a pulley } 16 \text { inches in diameter. }\end{aligned}$ What a pulley 16 inches in diameter.
size would $I$ need on main shaft ? (size would you give me a plan for ment mixer run with horse-power? J . 1. The frrat shaft from the main shart
runs $7-44$ as fast as the main shart, and the seond shart runs $12-4$ as fast as
the first. Multiplying these two fracthe first. Nultiplying thase two frac-
tions together we find that the second tions together we find that the second
shant runs $21-48$ (almot exactly $1-1-23)$
as fast as the main shatt; theretore, if the carriers were to be run by a belt, the
pulley on the carrier shatt would have to pulley on the carrier shaft would have to
be $1-23$ as large as that on the main be 1-23 as large as that on the main
shaft; $1-28$ of 16 inches equals almost exshatt; $1-28$ of an inches equals almost ex-
nctly $7-10$ of an incou see, a
16 -inch pulley on the main shaft would 16 -inch pulley on the main shaft would
not be large enough. If you made it 46 not be large enough. If you made it 46
inches, then the pulley on the carrier would need to be 2 inches in diameter. There are two objections to this: (1)
The main pulley is too bulky and cumThe main pulley is too bulky and cum-
bersome; (2) the belt would be inclined bersome; (2) the helt would be inclined
to slip on such a small pulley as two
inches inches. Thus you see it would hardly
be practicable to run your carriers with arranged that you could take up tho slack in the first chain, would prevent its jumping.
2. I think
3. I think you had better consult the
London Concrete Machinery Co.. who London Concrete Machinery Co., who
manufacture cement mixers for both handO. A. C. The prudent stock-owner never allows
his cows to fall off in their milk, or his his cows to fall off in their milk, or his
fattening cattle to stand stationary for want of supplementary feeding, as he ap-
preciates the fact that any departure trom the ordinary course of events in
milking or in fattening is difficult and -ostly to rectify.
HAVE YOU SECURED PERMANENT
The best way to secure permanency in your hired farm help is to make applica-
tion for a married man with a growing
family if house accommodation ran be family, if house accommodation ran he
provided. Many farmers have found it distinctly to their advantage to bund
cottages for their men, and in other cottages for their mor their comfort.
ways make provision for
on the principle that if you take an interest in your hired men they will make
your interests theirs, and thus become a aluable asset to your farm, and tha
reat and growing country. Colonel Howell, of the Salvation Army
Tmmigration Department. Jnmes and Albert Streets, Toronto, will be clad to hear from larmers who


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t. h. hassard, millbrook, ont


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 JOHIN GARDHOUSE \&t SONS, Highfield, Ontario,


IMPORTED CLYDESDALES Up torer aton io weight with
 gbo. g. stemart, howick, que.

## A



Watering MIIk


WOODWARD

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They give water without any labor what
ever, in right quantities and at correct ever, in rig
temperature.
Prevent contagion by drinking.
No investment around the farm will give greater returns in a year
The patent valve does it.
Full particulars gladly given free Full particulars gladly given free of
charge, and we will give you cheerfully
information and advice.
Ontarlo Wind Englne \& Pump Co., Ltd. $\overline{A C T I O N ~ D E V E L O P E R S ~}$ For Producing
\& I Impovive
Action in Action in
Horses. Used by all suc-
ceesful exhibitcesstor exh,
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in England.


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scription to all parts of the world.
During the fall months light and During the fall months light and
heavy horses will be a speeavy horses will be a spe
cialty. Write for prices,
terms and references.


BROWN SWISS CATTLE
fremch Canadan horses Weane offring for sale catle of both sexe and




Aberdeen- suffolk down sheep. Ansus Cattle, tractur,white: iber of theed sames bowman. Elm Park. Guelph. Ont. ABERDEEN - ANGUS.
 waltre fill wishlictov, intinto SCOTCH SHORTHORNS.


 J. F. Mitchell, Burlington, Ont.

## Two Red Bulls.

 Io monhto old at ciriper and anartha, Prixed J. T. Gibson, Denfield, Ont. MAPLE HOME SHORTHORNS

$\sum_{2}^{2}$
 A. D. SCHMIDT \& SOMS
Elmira, Ont. SHORTHORNS

 cind
m.C.R. scott Bros. mishzate. ont P. P. R Pleasant Valley Herd

 personally.
.
GEO. AMOS \& SON, Moffat Station and P.O
Moffat is I1 miles east of Guelph on C. P. R. Shorthorns, Lincolmand and ofd Downs Imp.
 FOR SALE: FOUR Fit for service. Dair SHORTHORN BULLS $\begin{aligned} & \text { type. Some of them from } \\ & \text { imp.cows, and all got by }\end{aligned}$



These tools are tempered by the same process used in the tempering of the
famous Maple Leaf Saws. They are the best goods of the kind ever offered to the Canadian public. Every tool is warranted. Handles made of best second-growth white ash. It pays to use the best. If your merchant has
Maple Leaf Harvest Tool Co., Ltd., Tillsonburg, Ont., who are the manufacturers. None genuine that do not have the Gold Sheaf on the label. $\qquad$


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schools, which we will sell with a very small cash payment,
and the purchaser pays the balance with part of the crop. and the purchaser pays the balance with part of the crop.
Write now for full particulars, pamphlets and maps to

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Farmers and Cattlemen, Read This!

 max mex

## QUESTIONS AND AMSWERS

 Miscellaneous.
## DIFFICULT CHURNING

 We have had considerable trouble this summer in getting We churn somewhere about two to three hours before it will gather, and we cannot ascertain the reason. We use a Daisy churn, also separator. We have no farrow cows,and cows get plenty of salt; also half gallon pea meal twice daily, and are on good pasture. Ans.-Probably the cream is not rip $S$ exough, milk in it. If you wit tain a cream richer, by adjusting the outlets of the separator, use a thermometer, see that cream is rich enough, chur at a temperature of 65 degrees, and have
the churn not much more than half full you should have no difficulty in getting butter in thirty to thirty-five minutes

DISLOCATION OF STIFLE I have a colt that is stiffed. There
seems to be quite an enlargement, and the bone cracks when he walks. I have kept
but he does not seem to be getting bet ter. What would be a good blister for it, or what would you advise to do wit and would it be possible to bandage and to keep the stifle in place? How long should one wait after blistering it before greasing it; and how long between
blisters? Ans-Keep him quiet in In partial dislocations in arown phace sometimes a sharp crack of a whip will startle the animal and the bone wis iy into place, ill be necessary to place a rop around the fetlock and have an assistan to draw the limb well forward, the hand being used to press the bone forward place with a sharp click. Once in place it is best kept there by keeping the lim well forward by means of a side line There is no better blister than canthar
ides (Spnnish fy). one part, to clean ides (Spanish fy), one part, to clean
lard, six parts. Clip the hair off and
(then rub in well, and grease the third day.
Repeat the blister after two or three weeks, and again repeat if necessary

COWS FAILING TO BREED
It seems impossible to get my cows
with call. I keep a bull of my own; he was two years old last spring, is healthy and in good trim, yet has not got a cow with calf this summer. He was all right
last year. and I had no trouble with my last year, and I had no trouble with my
cows. Some of my neighbors could not get their cows with call. They took them to a neighbor's, who had came back again. I do not know whether he got a calf or not, but a few of the
cows came to my bull atter cows came to my bull after. This sum-
mer, as far as I know, I do not thima there is a cow in calf in this section.
The cows are all healthy and in good trim. I have some two-year-old heilers
that are the same as the cower think it is abortion? If so, what would be the best to do? If not, what woul
be the cause of it, being eneral be the cause of it, being general all over
this section? Ans.-If the trouble were due to con-
tagious abortion, the evidences of it would probably be seen in the enlarging other indications, and the aborted footy
would be seen in some cases in field stable. Abortion is often conveyed to a
herd of cows by a bull that has been alherd of cows by a bull that has been al
lowed to serve cows that have aborted. gained any considerable confidence is the
tedious task of llushing the cows with tedious task of fushing the cows with
disinfectant solutions, and the sheath of Services for several weeks and in the cayse of
cows that have aborted. The difficulty
$\qquad$
$\qquad$
Thre will be daily demonstrations in
Con ral Canada Fair, at ottawa, by anday Government Thursday of fair week there

AUGUST 6, 1908
QUESTIONS :AND ANSWERS Miscellaneous
a wife's property Where a man and wife buy property, without either party having money
to pay down, depending on their labor ion pay for tarm, and deed is taken out
in wife's name, can wife will or sell said
 wiie's property
3. Can she cut him off in his old age
without any means of without any means of support?
Property is not all $\mathrm{C}_{\mathrm{g}}^{\mathrm{g}} \mathrm{g}$ for they are doing well it . toward pay ntario. Ans. -1.1. Yes.
should die
dien trespassing for berries. I have the deed of my farm, but it is
not all fenced around.
There
is, howsver, a good fence botween my farm
not my next neighbor and my next neighbor. Can said neigh-
bor's family come and pick the berries of my farm the same as they would on ing this for the lest five havers.
not
not mind
Id
did heir own use; but last only picked for them from almost right under our fin gers and sold them, and not only that,
but invited peopie trom the neighboring villages to come and pick. They claim cat because my farm is not all fencod in
cannot forbid them to pick. Serry eason will be on in another week, and I would like to know it I have a, right AN Bave them for our own family use.
ANXIOUS ENQURER. Ans. $\rightarrow$ Tha
Yous ought to have no right to do so ably, under the circumstances, by a no tice in writing. In the event of their
disregarding such notice, you would be disigerarding such notice, you would be be
entittilded to treat them as trespassers and
to proesute them accordingly. ROSE BUG-GREEN APHIS. I Wish to know what is the best thing
to poison rose bugs and little groen lice which come on the roses.
Ans. -1 . The rose bug or rose chater is
isfor diffcuit insect to combat, no remedy in the form of poison or spray having been
found entirely efficacious.
The beetle Ay a greet distance in search of food and may settle on a garden, vineyard or orchard where they have been scarco-
Iy known before.
One tronble wit measures of extermination is that new Individuals may continue arriving for several weeks. Arsenical poisons are too must be applied too strong for the plants in order to kill these insects. Choice rose bushes may be covered with mose
quito
netting, leaving no place large onough for the beeties to enter. In
other cases the beetles should be ered daily by hand, tossing them into pans or buckets containing a hittie coal
oil oil. It is said that ahowering the plants
with a mixture of carbolic acid and soap with a mixture of carboic acioland soan
suds has been found a repellant.
De stroying the breeding places by braking up old sandy pastures is advisable where
it can be done. The beetles feed not only on the rose, but on the grape, Cherry, peach, plum, pear, blackberry,
peony, spirea, mock orange and many other plants. They prefor to eat the
petals,
stainens and petals, stainens and smail frutrs in
fower, but will also attack the foliage.
The
 $\checkmark_{2}$ en becomes a serious pest. Syinge the plants daily with a strong decoction of tobacco. Fill a bar-
rel rel or pail hall full with refuse stems
trom a tobacco factory, and then fill the vessel with water. Macerate thorough$y$ and it is ready for use. For ex-
Ireme cases Bailey recommends the fol-
 Eallon of sort water; strain, and wha
cooling, , itssolve in it four ounces of sof
and the added another gallon or two of water. The plants should be syringed with this day to cleanse the shoots.
frist appearance of the these pests ther
nnd thumb are used to ruib then off and and thumb are used to rul then onf and
and

THE FARMER'S ADVOCATE.




THE STOCK-OWNERS' MEDICINE CHEST What You have Been Waning lor Yean xhis chest contains 1 Colle Drasint.
6 Coult Powders.
${ }^{6}$ Dluretic Powaer
1 wound Lotion.
6 Diarrheo Draushts:
12 Condition Powdert.
Pull intruxtion and veterinagy advico en Send for our medidehe cheri
 Agenta wanted every where.

Sunnyside Stock Farm


Spring Vaftey Shortherms ! Se sill have three chole young bulle that will be ver ahoa, onoies lot of come
Kechampion, clipper chier , ymp.
Kyle Bros., Ayr, Onterlo. SCOTCH SHORTHORNS.
 thank Brawith Bud bull. Golden
Come and bee our herd. R. H. REID \& SONS, PINE RIVER, ONT. Scotch Shorthorns We wew offer four

 wyebriage P.0., ont. wyevale str. Brownlee Shorthorns Three young bull nonths. Will sell at a bargain. Also o fee heifert | C. P. P. R. Atation. |
| :--- | :--- |
| D. . | Athelstane Shorthorns $\begin{gathered}\text { Three choice bolls } \\ \text { and } \\ \text { few heifere }\end{gathered}$

 reasonable. WM. WALDIE, Boz 324. Stratord, Ont. SHORTHORNS AND LEICESTERS
 John Lishman, hagersvilie, ontario (1) inaty advied my - youriney Ont.
 Herd headed by the grand champion, Prime Favorite, imp. You cannot afford to buy without seeing these bulls. We will appreciate a visit. Females of
to
ages and most popula lines of breeding. Bell telephone on each farm. Burlington Jct. Stne, G. T. R. W. G. PETTIT \& SONS, Freeman, Ont.

The Salem Stock Farm |1854 MAPLE LODGE 1908 SHORTHORNS $\quad$ One handsome roan SHORTHORN BULL for | Write for any information. | $\begin{array}{c}\text { LEICESTERS of the best kinds, bred from cham } \\ \text { pion prizewinners. Several in good show fit. }\end{array}$ |
| :--- | :--- |

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BELMAR PARC
John Douglas, Peter White,

- . Marigold Sailor. Imp. Nonpareil Eclipse. Females, imported and from imported stock, in calt

Put

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Maple GROVE
SHORTHOR N


When Wri
When Writing Mention This Paper

VALLEY HOME SHORTHORNS AND BERKSHIRES. For sale: Young bulls from dight to twelve months old. Young cows and heiters
ate in calf , ndy oung yearling hifers not bred yet.
Also young Berkshire paiss supplied not akine.
S.J.Pearson,Son \&. Co.,Meadowvale,Ont.

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If not satisfactory
I will instruct where to reship to
 quirement is provided for. Itustrated circulars.
Royal Grafton, Mt. Charles, Ontarlo. To Head Your Herd


E. \& F. MALLORY, Frankford, Ontario. LAKEVIEW HOLSTEINS Eat


 | W. Df BRECKON, Mgr., Bronte, ont. |
| :--- |
| WOODBINE STOCK FARM |




breeding cent
itty ; out of dams with superior
ity. Paris, G. T.R.; Ayr, C. P. r.
A. KENNEDY, Ayr, Ont.
Centre and Hillview Holsteins


 To LYNDALE HOLSTEINS!

,
 grandon of pietertie Hencer i.erv
BROWN BROS, LYN, ONT.
The Maples Holstein Herd

WALBURN RIVERS, Folden's. Ont Maple Hill Holstein-Friesians

G. W. CLEMONS, St. George, Ont. Maple Grove offers a richly-bred bull
 Glenwood Stock Farm Holstins and


Ridgedale Farm Holsteins $-{ }^{-}$For sales ${ }^{4}$


## dUESTIONS AMD AMSWERS.

 Misc̣ellaneous.CREAM SHOULD BE UNIFORM ly RIPENED.
Are as good results obtained from
churning cream mixed immediately be fore churning as from cream having been mixed for some hours? For in-
stance, we have no separator, would it
bo stance, we have no separator, would
be as well to mix the cream I skim in
the morning providing it it is. the morning, proxiding it it is sour, with
that which I am going to churn, that which I am going to churn, or
should I leave the morning's skimming shou neave the morning's skimmin
for the next acruning
A SUBSCRIBER'S WIFE. Ans.-The cream for a churning shoulc
be mixed in one vessel at least twelve hours before chuirning in order to insur
unitorm ripening ing diflerat dean dees of ripeness be bixixe
and churned at onco, there is too grea a loss of fat in the buttermilk, as th
riper cream churns firt river cream churns first. Leave the
morning's skimmings tor the next churn
ing.

## umbilical hernia.

for have a colt, three months old, that
for the two months has had a lump on the navel about the size of a hen? egg, and lately it seems to be gettigg
littele larger.
The lomp
luems to quite soft, as though it were fllled with
water, and can quite easily be pressed water, and can quite easily be pressed
beck up into the body. What is the back up into the body. What is the
matter with it? What is the cause or it ?
it Ans. -This is hernia, or a mild forn
of rupture. Unless it it may be as well to teave it alone for
a fow weeks. a few weeks, at least, as sometimes na-
ture works out a cure of this class of troube. If if continues to grow worse
it is advisable to put atruss or pad over the part, supported by a leather -
strong linen bandace four $\begin{aligned} & \text { strong linen bandage four or five inches } \\ & \text { wide around } \\ & \text { the } \\ & \text { body. } \\ & \text { Make a pad }\end{aligned}$ about the size of a small deep saucer
on the bandage to to keep it in place. Heve the straps
and buckes fasten to the bandage so
anat that it can be regulated and fastened
to provent its slipping or shitting hack or forwards Kep
or four week.

RIB GRASS, RIBWORT ENGLISH'PLANTAIN
I Send you a sample of a weed, which I notice a number in my hay.
grows in hay meanows. from 8 to
inches high. and has fom each root, which is trom two
four inche in the ground. Is this a ba weed, and if so, how can 1. get rid of
it Ans. - The weed you send is whe $r$
gras.
(Tlantago lanceolata).
know Known by various English names beside
the ono I have givent You describe it it
habit of grow well, and I would on and that the leaves are always in a ru
sette at the base, and that these ar



 be deer did by circumstnces. In clove
seed growing districts it certainly is
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\square$


Only Bull Calves FOR SALE, HOLSTEINS and AYRSHIRES, GEO. RICE, ANNANDALE STOCK FARM, TILLSONBURG, ONTARIO.

the golden lad bull Golden Fox of Dentonia. First-prize yeagling
and junior champion at Toronto, 1907, Exhibition. His calves coming from my pure St. Lambert
cows proves this cross a wonderful sucoess. Cows proves thence invited.

PORTER, Weaton Road,
Toronto Junction. Hilton Stock Farm ${ }^{\text {Holinteina, Cotrwolat }}$ and



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miking dams.
Inquiries solicited.

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arthur h. tufts. bex III, Tweed, Ont. W. Willis \& Sons, Pine Ridge Farm,
 $\qquad$
 Stock for sale of both sexes, and reg. Cotswo
sheep. Correspondence solicited. D. DUNCAN, DON, ONTARIO.

Stoneycroft Ayrshires Choice young bulls and heifers of the very best breed-
ing, combining show and dairy quality. Large Improved Yorkshire Pigs from imported sire
Stoneycroft Stock Farm, Ste. Anne de Bellevue, Que.

 AYRSHIRES $\begin{aligned} & \text { Bull and heiter calves trom pro } \\ & \text { ducink dams. Right grood ones }\end{aligned}$
Hickory Hill Stock Farm.

Burnside's Champion Ayrshires


HOWGLEN AYRSHIRES! Wardend $\begin{aligned} & \text { Present offering: i } 1 \text { two-year-old, } \\ & 2 \text { yearling bulls, and choice lot of }\end{aligned}$
 and combining show and dairy quality.
Large Impoved Yorksilire Pliss from imported sires STONEHOUSE AYRSHIRES Lancaster station,



MILEURN'S

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 PILLS.Many people make a mistake in thinkfig that the only office of a pill is to move the bowels, but a properly prepared pill
should act beneficiully upon the liver and
the entire glandular and secretory syatem. Piltion do, and by their specificic alterative Jaundice, Constipation, Flatulency, Heartburn, Headache, Dyspepsia, Water
Jrash, Catarrh of the Stomach, Coated Jirash, Catarrh of the Stomach, Coated
Tongue, Foul Breath, and all diseases arising from impurities clogging the system.
They are small and easy to take, and do not gripe, weaken or sicken. They may
be used as a mild laxative or a strong purgative according to the dose.
Price 25 cents a vial, or 5 vials for a $\$ 1$, Price 25 cents a vial, or 5 vials for a $\$ 1$,
at all dealers, or mailed direct on recoipt
oo price by The T. Milburn, Co , Ltd., Toronto, Ont.

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SPLENDID MUTTON, GOOD WOOL,

This highly valuable
ENGLISH BREED OF SHEEP is unrivalled in its rapid and
WONDERFULLY EARLY MATURIT all
all climates. and in quality of UTTON AND LARGE PROPORTION O
LEAN MEAT IS UNSURPASSED. FEAN MEAT isformation of

Secretary, Hampshire Down Sheep Breeders' Assoclation,
salisbury,
England.
IMPORTED HORNED DORSETS My importation for 1908 will arrive in a few days.
Look me up at Toronto Exhibition 1 have for sale


## Maple Villa

Oxford Downs
and Yorkshires
A high.-class lot. Yorkshires of both sexes and
ages. Satisfaction is guaranted. J. E. Cerswell.
Bond Head P. O., Ont. Beeton or Bradford Sta.
A church army commissioner had a
letter recently from a convict, begging
$\qquad$
$\qquad$
$\qquad$ such a place as prison."
Another convict, in the course of
letter to his brother, a pauper, letter to his brother, a pauper, re-
marked, ". Well, Jack, thank goodness
have never sunk so tow as the work-


THE FARMER'S ADVOCATE.

## gossip. INCOME FROM SHEE

 One lamb to the ewe, and that is cer-tainly a low estimate, would mean six
lanits at $\$ 3.00$ per head, or $\$ 18$ for the
lamb crop. One dollar and fifty cents per head is Certainly not too high cor
pstimate on wool, which would amount th $\$ 9.00$ for six, ewes. Ading this $t$
the 818 for lambs gives a total of $\$ 20$ and $\$ 18$ for lambs gives a total of $\$ 22$
and as proof that I have given the the worst of the i have given the sheep you many flocks that have given doubl
these returns from these returns from a merely market
standpoint. I will venture the state-
ment that. not will standpoint. I will venture the state-
ment that not a flockmaster will agree
to contract the income from his flock and
hese figures.-- An Iowa Sheep-grower.
The Tricky Saskatchewan
Somehow there is a currous likeness be
tween the great river systems of the
north and those of middle America. The
Mackenzie
goes clear to the Arctic Const, is a twi

ily differences, Mississippi, despite its fam
running the Saskatchewan Thanng from west to east, has mor
than once been spoken of as the Mis Souri of the north. The two norther
waterways on the Canadian side of th border are in their way, moreover, ot relatives, and it may be that some day,
when the country fills up, they will play When the country fills up, they will play
us large a part in the life and industry
of the great basins which they ind The Saskatchawan which they drain. resemblance besides its size point southern river systems; it has a habit
of annually overflowing and making mi


Springbank Oxford Down Sheep


 IMP. HAMPSHIRE DOWN SHEEP My beraide eves are ali impored foom the noid
 of eve camb form
L.E.Morgan.Muliken. Ont.P.P.O.and sta. ©.T.R.

I CAN FURNISH JUST NOW A LARGE NUMBEK OF EXTRA GOOD Shropshire and Cotswold Rams A large number of extra good Shropshire and Cotswold ewes, twelve months old And af few very high-class Shorthorn bulls and heifers. Any of which will be sold at
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Flock of the most approved type. Wee offer good
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Henry Arkell \& Son, Arkell, Ontario Arkell, C. P. R. Guelph, G. T. R.



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 .

CEDAR LODGE YORKSHIRES Elmfleld Yorkshires so pife hat to to

 Advocate Advertiser's Reap Results. $\qquad$
Maple Leaf Berkshires wowempixis
 JOSHUA LAWRENCE, OXFORD CENTRE, ONT




Yorkshires A choice lot of boars and sows read for service, and sows ready to breed and bred.
Bred from inp. and prizew inning stock.

GEO. M. SMITH, Haysville, Ont,
 CHESTER WHITE SWINE AND SHROPshire sherp.

|  | YORKSHIRES-We have a Rinited number of choice <br>  |
| :---: | :---: |
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|  |  |
|  |  |

 1 milid ders jeatherston \& son, streetsvilie, ont. Newcastle Tamworths and shorf. GLENBURN Yorkshires
Sale: 90 spring pigs, both sexess ; boors fhit for sorve HERD OF




## MONKLAND YORKSHIRES

JAMES WILSON $\&$ Ala ages for
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For Diarrheea, Dysentery, Stomach Gramps, Colic, Summer Complaint, Cholera Morbus, Cholera Infintiul, and all Looseness of the Bowels
There is no Medicine Like


It her boan a havabold remedy for © Joarmoed You on jluay, roly yitit in timo
 to puim ort a heap prbibitatito on you.


THE ONLY CURE FOR DIARRHGA.
 Burketon, Ont.
 Wild Strawberry for diarrhoees, and - better remedy to bo found, as I have a large family and all sabject to it. I isoinquick oure, and 'the only thing' 'that


GOSSIP.
The Oxford Down sheep at Maple Ville Farm, the property of Mr. J. E. Cars well,
Ont., are an exceptionally high-class flock, the get of such noted show rams as Vanity (imp.), Bryan 13th (imp.), Kelmscotonian (imp.), Hampton Hero th (imp.), Hamtonian 96th (imp.), and Sunset (imp.): the last-named the present
stock ram, and the sire of this year's crop of lambs. Sunset is a wonderfully good individual, and a wonderfully good by him, he is for sale-a high-class sire for someone, and only two years old This is one of Ontario's best flocks of oxford Down sheep, among which ure a number of winners at Guelph and other shows. For sale are 15 shearling ewes, 4 shearling rams, and this year's crop of lambs, both sexes. The Yorkshires at
Waple Villa are all of Flatt's breeding maple Villa are all of Flatt's breeding,
with imported sire and dams, very large and of ideal type. In use until lately was S. H. Topsman 13th, a son of the
great champion, Duke of York (imp.). At present the stock boar is $\mathrm{S}_{\mathrm{y}} \mathrm{H}$. Oak 3rd
by S. H. Barrowfield Royalist (imp, dam S. F. Dalmeny Satisfaction 1st
(imp.). He is all that could be desired (imp.). He is all that could be desired
in type and quality, and a very pre potent sire. In breeding are over
dozen sows, mostly of Flatt's breeding of his choicest strains and grand indi viduals. For sale are sows bred and ready to breed, and younger sows and
young boars coming on.
pleasant valley shorthorns Few herds of Shorthorn cattle are kept up to a higher standard of excellence
than the Pleasant Valley herd., the property of Messrs. Geo. Amos \& Son, of Moffat, Ont., twelve miles east of Guelph Wing to numerous sales in the last few months the herd is somewhat reduced in
numbers just now. From a general average of about 75, there are now only are such grand good ones and fashion-ably-bred ones as Imp. Mabel of Know ablebred a Mysie, by Prince Victor; $\operatorname{Imp}$. $\begin{array}{ll}\text { hoad, a Mysie, } \\ \text { Princess } & \text { Victoria, a Cruickshank Vic }\end{array}$ toria, by Morning Pride; Victoria 72nd a daughter of Princess
Greengill Victor, a grandly-fleshed three year-old; another, a year younger, is a Collynie Fragrance, by Scottish Fancy;
Lily Fragrance, a yearling daughter, by Old Lancaster (imp.); a show heifer, another daughter, is by Bud's Emblem, Coronto winner, son of Old Lancaster this youngster is the making of a winner; Sweet Fragrance (imp.) is by Alas
tair; Scottish Queen (imp)
 yearling heifer by Old Lancaster, and a present stock bull, Imp. Ben Lomond, country; Imp. Flowery, a Cruickshank
Orange Blossom, is by Knight of Strathbogie; she has a roan yearling daughter by Old Lancaster, a cracker, and a ten-
months-old bull call by Bud's Emblem; Imp. Augusta Girl, a Bruce Augusta, by
Clear the Way, has a two-year-old daughter by Imp. Greengill Victor, and
a ten-months-old bull by Bud's Emblem Imp. Meadow Beauty, a Kilblean Beauty,
Is by Ben Lomond (imp.). Others are
is is by Ben Lomond (imp.). Others are
a real choice twey-near-old heifer,
Mysia by Old Lancuster. and a yearling Mysie, by Old Lancaster, and a yearling
Iull sister, both high-lass show heifers Cecelia Ray is a Ceceria, by imp, Sot choice six-months-old bull calf by Imp
Ben Lomond: Lancaster Irincess is an
 epresentative of the hreeding of the herd
which is one of the best in the country

## HOW I' CURE 

## A great many men are doping their stomaohs with drugs, trying to overcome some chronic disease or weak- cess, and wonder what makes them so <br> Deseronto, Ont., says:" It is yome five or six years since I I got your Beit. I am well satifned with it. It cured me, and I have not been both- ered since, and thave not used it ainco

 nervous, restless, and unable to thinknaturally blame the dearise for it but the
disuased by drugging.
aused by drugging.
Your stomach, when it is working Your stomach, when 18 working
right, Eenerates the power which runs
overy organ of your body. This power revery organ of your body. This power
in electrictty. When your stomach, lidaneys Ilver or digestive organs get
out of order, it is because they lack



 you must asist Nature is nestoring My Electric Belt does this while you aloep It aqturates the nerves with
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Electricty, and the cost ls not half an
ordinary doctor bill
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