## PAGES

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THE FARMER'S ADVOCATE AND HOME MAGAZINE
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- THE FARMER'S

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ddress-THE FARMER'S ADVOCATE, or
THE WILLIAM WELD COMPANY (Limited)
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animal is shipped he carries with him to the best market hide and offal. Furthermore, to ship
meat to England in the best condition, the trade would have to be confined to the late summer and early fall, and the extensive abattoir and would be idle mostiances on railway and steamer importation most of the year, while the sudden into the British prices there.

On the other hand, one or two ranchers met would gladly see a meat trade built up, and be heved it would be practicable. One of the larges tage of the hide and offal being left in the poore market, there was the substintial difference of $\$ 14$ for meat, as compared with $\$ 30$ per head on the hoof for shipment to Liverpool, these figures hav ing been quoted by the C. P. R. when the railroad authorities had gone into the matter. The difficulty entalled by the short season might be large overcome by detaining some of the meat for possible cold storage on this side. To us it seems ser of deluging the Rritish he made of this dan beef. As it is now, the range with Canadian within a few months, and we fail to see why the congestion should be so verv much more disastrous in the case of meat than in the case of beaf the has to be slaughtered promitly on arrival. The British market is big, and Canada's whole export of range beef is swallowed up without depressing values disastrously. As the West gets settled, and the beef is produced on farms rather than ranches, there would seem to be no good reason why its marketing should not be spread more
evenly over the year, a development that would seem decidedly beneficial, whether the product is marketed on the hoof or in refrigerators and cans.

Many boys fancy that fluent cursing, whiskey drinking and smoking are short cuts to manhood.
Would that they might see themselves as others

Bring Royal Mail Service Up-to-date or country moves faster than the Dominio orial in "Department," is the title of an edicriticising the tardinmer's Advocate," Winnmpeg, ic service in placing its facilities within the reach of new settlers. Among the defects pointed out are insuffient accommodation at the generalness in supplying in rapidy-growing cities; slowness in supplying post offices in newly-settled dismail service in maktions or long contracts for stage tion of railways renders where impong construc wise. The people tributary long contracts unin the West have had to put up with a for a decent mail service aiter the road has waid giving a passenger service for months There is need for more elasticity in the Post Office Depart ment, and if it be short-handed, the Minister should take steps to remedy that lack. In these days settlements such as those between the main lines of the Canadian Pacific and the Canadian Northern should not have to drive twenty, thirty or more miles for mail, which, even then, can be and thickly-settled districts in limited to a semi-weekly or Far be it from us to counsel extravagance in the Post Office or any other Department af the ernment service. We commend the thrift and past decade, buthich it has been operated for the The mails are one of the great modern con veniences, not to say luxuries, of life, and provision of the best possible service in country disricts is not only a measure of justice to the nation's greatest class of wealth-producers and taxpayers, but is a highly necessary means of improving country conditions, and thus retaining on the soil a satisfied class of husbandmen. We partment surplus if need be, without a postal dedistricts is urgently needed, and we trust the new ceive and take advanton. Mr. Lemieux, will pera stroke of progressive statesmanship.

## HORSES

## Shire Horses for Canadian Shows

## E PROPERTY OF THE KING NND

During the period of more than twenty year Horse Solapsed since the foundation of the Shir strides in public favor, both at home more rapia This is doubtless attributable to the great im provement that has taken place in the cardinal points of the breed, as well as to the fact that by prices have resulted and these at home, higher greatly-increased practical value of Shied with the have also attracted the foreigner from all pertings the world. Indeed, the Shire gelding has arrive at the very highest standard of excellence, both as
regards his ability to propel loads and the wear of the streets, and also as regards the prices paid for the animals when ready for town
work. Ample evidence of these facts is found in Che fact that not only are Shire geldings in the in our own great horse-using cities of London,
I, iverpool, Manchester, Leeds, and other places but also in Dublin and Belfast, and elsewhere
throughout the United Kingctom, throughout the United Kingdom, while recently
there has been a demand for these horses from several populous centers on the cont inent of
Furope and America. Breeders there of late have hecome much more anxious to avail themselves of
breeding Shires to give weight and tila heavy horses. For some years the trade in shires
for breeding purposes for the western continent
has heen sol has heen somewhat languid, hut few animals of
the highest improved Shire type have found their way thither up to the present. The reason for prices that have prevailed for this kind of horses
at home. The desire of Canadian and at home. The desire of Canadian and American
hreeders to lecome possessed of the hetter or im-
proved type of Shire has now become so keen that recently a number of very useful harses have been
exported to those destinations. A letter from
Mr. Orr. of the Canadian National Fxhitition, to Mr. Sloughgrove, the Secretary of the Shite Horse ers forwarding a representative exhihit of horses
of the breed for exhibition at the Canadian
National Exhibition at Toronto this altumn so
that the many thousands of visitors who frequ that popular agricultural gathering may have opportunity of comparing the points of the S popular with those of other breed so valuable a that will be present upon that occasion. A general desire was expressed that Canadia tunity of inspecting high-cla should have an oppo breed. It has already been announced thei incentive to, agriculturists at home and abroal and more especially to those interested as breede or users of heavy draft horses, His Majesty th Sandringham and to send some typical Shires fro send several of his representative horses from th Tring stud. These will appear for exhibition only and not to compete for prizes, at the following National Show, at mentioned: . The Canadia tember 6th; Canadian Central Show, at Ottawa September ith to 15th; Western Fair, Lo,ndon States Royal, at Kansas City. and the United Accompanying the treeding animals are two formers, five and six years old, respectively, the class at Peterborough the other dayt prize in his bay, of proportionate shape and good quality mou has not been exhibited. These horses are the Shire than as show the propelling powers of being very powerfully built and a city team hort and wearing legs.
The breeding section must be looked upon as a Shire, displaying especially the of the improved hair and bone, and with generally and feet. They do not present any excesses, either in the way of size or weight, neither have they been forced in condition beyond the ordinary course, the brood mare having nurged her foal and heavy service season, so that breeders on the other side will, in this importation, see the Shire as It is to be hoped that many Canadian an exhibitions and examine for themselves the siou mens of the Shire breed that will be placed before them. These notes may be helpful in calling at tention to the breeding and characteristics of the
animals that have been sent to represent the breed

- IIive-stock Journal.


## Draft-horse Registration

> able space, with a view to catching the attention of years ago I. bought a filly, her dam being a registerad Clyde, but having been bred to an imported Shire horse hence 1 have a grand individual, that has gained a show-ring. Now, what I would like to claim, is that the dam's breeding should count for something, and I don't think the society would 'be making a very grievous mistake if, after a slight deviation of this sort, they
would admit their progeny to registry with two three crosses instead of four and five. With two or may draw attention to the matter, five. Hoping this cussion in your columns, I remain an interested
Bruce Co., Ont.
OLD SUBSCRIBER.

## Judging Horses.

average horse-show judge. Every exhed than the he owns the only "good", Every exhibitor thinks not, see the better points of he cannot, or will him, he either does not know his not agree with been unduly influenced, or even "bought,, or has forgets that there are not enough ribhons to Ho world to accept defeat is the nicest thing in the that a judge probably with a good grace, and also cases, know any of the exhibitors, and would
favor one of them no favor,", of them if he did. "A fair field and no favor has always been my motto, and alDo I prefer one or more judges? In answe
to this, would say I prefer the single myself; then thay I prefer the single-judge system put the responsibility, and you simply have to
face the music ": and face the music ", ; and, again, I can devote to
whole attention to the matter and concentrate my
mind on when whole attention to the matter and concentrate my
mind on what is hefore me. with mo would, hou...." "hat nre" with mo one to ". butt near by so
urgent necu being gery being good
totally at ant onerit the title, and are
the first

ALGUST 23, 1906
1HE FARMER'S ADVOCATE
most difficult to judge, chielly on account or other of your colleagues either bei
tical, or not able to decide for himself case if they tind out, as they generally there is one good practical fellow in the ring the usually get around him and try to tind out which animals he prefers, and act accordingly; or, again, ticular exhibitor, and will fight for his friends entries every time. A , good judge is "" born, not made," and "would-be's" are the worst that "ever
happened "-they only hamper a man who does happened - they only hamper a man who does
know. absolutely necessary to satisty yourself first, and then the probabilities are the bulk of reasonable exhibitors
have differences of opinion, and no judge is inallible anyhow ! I like to be in the ring when the horses come in, believing that first impressions are generally
correct ones, and aiter marking off the numbers of those absent, keep them parading around me until I can by close comparison select the ones which,
$t$ that "s stage of the game," look like the win ners. Against these I make my private mark in
he order I want them; then have them "In he order I want them; then have them "lined up" free from blemishes or obiectionable points: after this I weed out those which are distinctly "out of it, and if I have any doubts in my own mind about the order $n$ which those already selected after viewing them in front paraded again, and that their action is straight and true, I have them called in and the rimpons tied. I might mention, dility to "back" if required. In making award
lose attention should be given to the way a horse is bitted and shod. I have seen many judges
never get either in front of or behind a horse, and never get either in front of or behind a horse, and
many faulty decisions are made in consequence. many faulty decisisns are made in consequence. horse is, or how high he can "go "-he must go
straight to win, and "go" behind as well as be-
 op in mind what the class calls for, or the use
o which the animals before me have to be put, and govern my decisions accordingly.
Theed" in all heavy hargesat call for a little hings being equal, I should alwaysses, and, other things being equal, I should always prefer a horse
with it than without it, although I am no advocate of the "break-neck", style of driving all the certain amount of speed. Another and very general cause of complaint is "tat a horse can win one day and the next be
"turned down" in practically the same company. This is easily explained. A horse is not a machine, and one day he feels "good" and makes the
best of himself, whereas on the next day he may be "clear on"" and not make a "show" at all. Some men get awfully "sore", on this point, but they should, ask themsel ves, "Do I always feel
the same? ${ }^{\text {It is unpleasant to be beaten. }}$ especially by one that your horse has beaten the day before, but this will always happen as long as horsc shows continue. Or, again, it may be a
combination of circumstance. for instance combination of circumstances, for instance, a case
comes to my mind which occurred at one of the comes to my mind which occurred at one of the
large Western shows last fall-it was in a class for a special prize for "gig horses." My choice
was decidedly a certain gray mare, with good was decidedly a certain gray mare, with good
style, Iots of action and substance, and everything style, ots of action and substance, and every thing
that goes to make up an ideal "gig horse." My two colleagues preferred a bay gelding, owned by
the scion of one of America's wealthiest families. I "hung out" for the gray as long as possible, my will) to the ruling of the majority. Two nights afterwards the same two horses, amongst others, came in to compete in the open class for "gig horses." My colleagues approached me to see
where I stood. I answered. " 1 am for the gray mare, and if she don't win I do no more judging at this show," She won!
Tell me where the advantage of having three judges comes in, in such a case? I proved to my aln satisfaction before the end of the week that
although owner of a large stable of horses. one of my colleagues was totally impractical in a (1) Close comparison and attention to details i horses, let them be drafty in character : if coach ers, smooth and of good style and action; ;if road-
sters, speed is of paramount importance. Satisfy Sters, speed is of paramount importance. Satisfy
vourself that you are right, then go ahead and fear no one. There always will be kickers, al-
though most unsportsmanlike, and if asked a judge can generally give reasons.
Horse shows have done
Horse shows have done more than anything else tses, and breeders have tried to raise what is re Minired, but there is still room for improvement
Horse shows dideals cannot be set too hich. Horse shows
e certainy helped breeders, and been a God nd to both them and to the dealer, Long may
R P. STERICKER
orange Co., N. Y

Light Horses.
 The sting horse fis purely of American production ter, was origipaled the American Trotting Regisfirst volume printed in Mr. J. H. Wallace, and the as in the ability of the animal or purity of blood 20 trot or pace fast. There were and still are several rules under which an animal becomes cligible for registration. The standard rules fo
registration of trotters are somewhat (1) The progeny of a Standard-bred stallio out of a Standard-bred mare. (2) A stallion sired by a Standard-bred stal-
lion, provided his dam and grandam were sired by Standard-breds, and he himself has a trotting rec ord of 2.30 or better. and is the sire of th-ce
trotters with records of 2.30 or better out of dif (3) A mares
dam and grandam were sired by Standard-bred, whose dam and grandam were sired by Standard-breds,
provided she herself has a trotting record of 230 or better, or is the dam of one trotter with a record of 2.30 or better.
(4) A mare sired by
she is the dam of two a Standard-bred, provided 2.30 or better. vided her first, second and third dams were each sired by a Standard-bred.
For the registration of pacers, the same rules apply, with the exception that the time limit is


Oro Wilkes 30347.
Standard-bred stallion in stud of Cruickston Stock Farm, Galt, Ont.

The different gaits are not transmitted with may produce acer stallion and a trotting mare mal of either gait may be standard at birth under rule 1. These rules at first were not nearly so stringent, and have been changed many times, each Standard-bred by birth to become eligible for registration. Thus it is casily seen that speed is more necessary than breeding as regards eligibility for registration, but there are few, if any, cases
in which an animal not well bred, on either sire or dam's side, has earned his eligibility to appear in the register or studbook. The horse under discussion has been bred far many generations with the main idea of producing extreme speed at the trothing or pacing gait, and this trait has been
so highly developed that there are many who have so highly developed that there are many who have
records little slower than two minutes, and a few have gone a few seconds faster than that.
The foundation stock for the establishment this breed, the horse that gave stamina, courage and will power, was the English Thoroughbred. The horse that played the most important part or mably was $\operatorname{Imp}$. Messenger, by Mambrino, out
of a mare by Turf, out of Regulus, by Starling He was a gray horse, foaled in 1780 , Starling. ported to Philadelphia in 1788 . His sire Mamhrino was by Engineer (a son of Sampson), out Messenger was Mambrino (named after his grandMessenger was Mambrino (named after his grand-
sire) He was bay, foaled in 1806 , and was out of a daughter of Imp. Sauerkraut. Mambrino sired Abdallah, foaled in 1823, who sired Rysdyk's

Hambletonian, to whom a very large percentage
of the fastest trotters and pacers of the present of the fastest trotters and pacers of the present day trace. Among the most noted sons of
dyk's Hambletonian were Alexander's Abdellah, Aberdeen, Dictator, Electioneer, George Wilkes, Happy Medium, Harold, Messenger, Sentinel and was a grandson of Mambrino, his sire being Mambrino Paymaster. Andrew Jackson, the Young Bashaw, son of Grand Bashaw, a Barb, imported from Trepole in 1820. Young Bashaw' dam was by First Consul, and his grandam was Imp. Diomed and Imp. Bellfounder also had a favorable influence in the early record of trotters. The Morgans, a very old trotting family, are descended from Justin Morgan, bred in Ver
mont in 1793. The Pilots from the old back mont in 1793. The Pilots, from the old black pacing horse Pilot, of French-Canadian ancestry.
He sired Pilot Jr., sire of Maud S. and Jay-Eye See, two noted performers. The chief families of trotters are the Hambletonians, the Mambrino Chiers, the Clays, the Morgans, the Bashaws and The first recorded trotting performance in America was that of Yankee, at Harlem, New York, July 6th, 1806 . The time recorded wa
2.59 , but it is said he did not go a full mile. 2.59, but it is said he did not go a full mile.
In August, 1810, a Roston horse trotted mile in Philadelphia in $2.48 \frac{1}{2}$. In 1832 Burster trotted in 2.32, and in 1834 Edwin Forrest made a record of $2.31 \frac{1}{2}$. From that time to the pres-
ent the records have been gradually reduced until, ent the records have been gradually reduced until
as before stated, a few have gone faster than two minutes. The class of horses known as roadsters are the descendants fred, and in many cases are Stand
bred themselves. CHARACTERISThe Standard-bred being of composite breed, and having been bred for so with the prime idea of producing speed quired as definite type as other breeds of horses. Extreme speed is seen in conformation, style and peculiarities of gait. Some Stand docked, manes pulled, shod heavily and driven for action rather $\mathrm{th} a$
speed, make high speed, make high-
class heavy harness
horses. In the horses. In the
Standard-bred either Standard-bred either the trotting or pacing gait is allow-
able, and the same
may be said in may be said in re-
gard to roadisters, but in the latter
generally much more favored.
The Standard-bred should be The Standard-bred should be a stylish horse, of fair size, say from 15d to $16 \underset{y}{\text { hands. In con- }}$
formation he is a medium, between the Thoroughbred and the Hackney. His action is usually only fairly high when going slow, but increases in height as he goes faster. His forward action action behind is allo,wable, most fanciers prefer closer action. While for racing purposes boots of all kinds are allowable, the roadster must not require any. He should have speed, and if he can be safely speeded without requiring any parts of his feet or legs to be protected by boots, so much the better. Speed is necessary in a high-class Standard-bred, and the more style, quality and In the action he has the better.
In the roadster extreme speed is not demanded, ut he must have sufficient substance to perform the ordinary functions of a road horse, and have eeed is not demanded, the While we say extreme valuable he is provided the more he has. the more tion, style and mands.

Summer and fall are the seasons when the weeds are plainly seen-the mustard, the wheel-offortune, the thistle, the crook
bookmakers and the wild oats.

## THE FARMER'S ADVOCATE.

## LIVE STOCK.

## Judging Sheep.

The following instructions as to the method and manner of judging sheep in the show-ring are copied from Professor John A. Craig's excellent
book, entitled "LLive-stock Judging," are founded on an extended experience and careful observation, they will appeal to the student of this class of work, and may be safely accepted as und in principle
METHOD OF EXAMINING SHEEP.-In examing sheep it is advisable to adopt a definite course
of procedure, so that nothing may be overlooked and each motion made ta disclose something in regard to the merit or demerit of the sheep. In the show-ring that contains as many as ten sheep
in a class, it is easy to see that the judge must work quickly as well as accurately; and there is nothing that will contribute to both of these like examining each part of the sheep in regular order. The best course to follow is, perhaps, to begin at finger and thumb, so that the teeth may be seen and the.age estimated; then, with the hands under the jaw, look carefully over the head, seing that no eyes are all right, the head a good shape, and hornless; while in those that possess these, note
that they spring clear from the head. Then pass to they spring clear from the head. Then pass
to the neck, feeling with the hands the fullness of ot the neck, feeling with the hands the fullness of
it, and, in addition, observing the length and the way it swells to meet the shoulder at the shoulder
vein. Pass down to the brisket, patting vein. Pass down to the brisket, putting one hand on the floor of the chest and the other at the top
of the shoulder, and in this way form an ideo to the depth of the sheep through these parts Next note the shoulder, observing how it is covered with flesh along the side and top, and also taking the girth or the spring of the ribs using one hand, follow the line of the back to the end of the body. By carefully handling these parts the fleshiness of the sheep, or the way the ribs are covered, and the straightness of the back,
are determined, and at the same time the spring are determined, and at the same time the spring
of the ribs is made apparent. The width of the loin should then be taken, and also its covering and thickness. The width, of the hips should next be observed, and, turning to one side and using
two hands, the length from the hip to the end of
the hind the hind quarter should be made apparent between the two points. Then the width of the hind quarter and the manner in which it is carried back
and the fullness should also be examined Following the joint towards the leg the development the thigh on the outside requires examination, and then with the hand the quarters should be firmly felt. Decertion due to trimming.-In this way the sheep has been thoroughly examined as to
form, but it is to be remembered that the hands should be thoroughly relied on to discover all de fects of form, and unless the sheep is carefully
handled the examiner is very likely to be deceived The wool of all show sheep and fat stock of the medium wool classes is always trimmed, and the trimmer possessing skill can give any desired form
to sheep, providing the wool is long enough and to sheep, providing the wool is long enough and
the sheep approaches somewhat towards the form which is being imitated
ESTIM ATING AGE BY THE TEETH.-The order of appearance of the nippers or incisors i
sheep is a fairly reliable mether sheep is a rairly reliable method of telling their
age. The sheep has eight permanent incisors, and these appear in regular prder in in supplanting
the mik teeth the milk teeth. The milk teeth can always be
told from the permanent incisors, hy the wat that cold from the permanent incisors, hy the fact that
they are narrower. The permanent incisors broad and wide, and widened considerably towards the top. The first or central pair of incisors appear when the sheep is slightly over one year old
The next pair-that is one central pair-appear the following year and that centrai pair-appear the followiny year, and that
is when the sheep is two years old ; the third pair appear when the sheep is slightly over two years
old, and the fourth pair when it is het ween four and five years old. This completes the number of incisors, and a complete set always indicates that
the sheep is between four and five years old. High feeding or forcing hastens the age indications, so that the variations are often unnoticeable
especially in show sheep or those imported froul esperet Britain.
Great Judging sheer for mutton and wool the needs of the feeder of this class of stock, the demands of the butcher for lambs and mutton, the
desires of the consumer and the requirements of desires of the consumer and the requirements of the manufacturer of wool. These requisites must
be merged together to arrive at a correct view of the whole FEEDING TYPE THAT GIVES THF BEST GAINS.-In considering the type of sheep which gives the best results in the feed lot, we
have only to have in view the type that gives us have greatest vigor, insuring an active digestion
and the most constitution, so that nothing may the highest value per pound, as that is quoted upset the sheep in the rapid progress desired. In ten cents. The breast and chest have the
this connection it will be well to report the re- low value of two cents per pound. It is very
sults of an experiment made at the Wisconsin Ex- dent from these facts that the back, loin and periment Station by the writer. Two lots of showing in fleece and form a high degree of merit for grade sheep. These lambs were bred from high-grade eeves, and the rams had been selected
at high at high prices for some years to make the best
blend with the ewes. form as to type, and they showed what might be called an unusual degree of merit for ordinary feeding lambs. To compere with these, some lambs native to northern Wisconsin, showing the type
common to that territory rations. The representatives of both these kinds of lambs, in addition to having the same kind of food, were kept under identically the same condi-
tions, putting both lots of lambs in the fed lot three cents a pound, and taking them out lot at cents at the end of the feeding period. The welltred lambs, of good feeding type, after paying for a profit of $\$ 1.13$ per head. while those res, yielded tive of the poor type being indiscriminately braonly yielded a profit of 60 cents per head. The lambs of the best type ate more food, but they made more than a corresponding gain, and the
chief point should
not he lost sight of profit from each one of them was just twice as much as that from those heing of inferior type. the feeding type bringing most a MATURITY-In the selection of feeding lambs thic


Roxwell Saxon Harold (22732)
most demand for the lamb that when fat weichs sale at the pounds. Such a lamb has the quickest one that is not too heavy tored this type is but such as require only a medium amount of
flesh to make the carcas som the weight indicated. It is the tow and plump at hat possesses these qualities to the highiest de
 possible. The younger the animal the cheaper the ost of gain, and it is that feature that makes Mrly maturity such an important consideration in a lamb of the weight mentioned, because, ta a sthate thee destred by the butcherif we. were to consider only the things that have
hie most importance in the viow of the butcher contwould to us. The ary queerly-formed sheep presentwd to us. The butcher is very desirous of ob-
taming the greatest percentage of valuable cuts consmumbly the different parts of a lamb from a lame, the freder's and brecter's ideale variation would not be necessary to hate any neck, chest

 dent from these facts that the back, $10 i n$ and the
leg are the three divisions that are most prized
in the lambs that would be ideal from the
butcher's standpoint. QUALITY:-After the form of the sheep has been carefully examined the quality should bo
noticed. This means the che noticed. This means the cleanness of the bone,
fineness of the skin and the nature fineness of the skin and the nature of the hail
which covers the face and legs. These are im whichant features in either breeding or fat shect It is, perhaps, the most valuable from the
butcher's standpoint, becouse the wist butcher's standpoint, because the waste is less from a sheep of goou quality than it is from one
that is inferior. The range in the percentage of dressed weight in lambs will vary from 50 per cent. to 60 per cent. of their live weight, so that it will be understood that quality is an important
factor from the butcher's standpoint. where the factor from the butcher's standpoint, where the the dressed-weight returns.
The qualities of the fleece. -In est mating the worth of a sheep or judging it, no feeder, the tutcher and the consumer, but with reder, the Eutcher and the consumer, but with
these we must include the qualities desired by the neos we must include the qualities desired by the
wool manuacturer. Though the returns from
the the flece are not very large, yet the sheep-breeder
must consider them so that may be as great as possible. To arrive at a coit rect understanding in regard to this, the ex rect understanding in reagrd to this, the ex
aminer must follow the best method of examina feder has to keep in view the fact that there is tion, and aiso know in detail the market require examining the Flefece. - In exam ining and valuing the
fleece, the points to consider are the quantity quality, and the con
dition.
In ing the qualities divisions, we can in clude the interests
of those direetly conous products corining
from sheep on the market. The the best
method of arriving at the nature of a
flecee is to open it first just $\begin{aligned} & \text { over the } \\ & \text { shouldert } \\ & \text { Ith is } \\ & \text { in } \\ & \text { Inis region that the }\end{aligned}$ tinest region the sound-
finst wool of
est est wool of the fleece
is found By using
ine hands in a flat phesition, instead a
pof
stiction sticking the end of
the fingers into the
wool the fint wool, the flecee may
be parted in a more
satisfactory manner. Atter looking at the wool and skin in this
region, the thigh
should be the next region, the thigh
should be the next
place of examination. for here grows the poorest and coirsest wool of
the whole fleece. Then the covering of the on on the belly also demands notice, for very often
sheep are quite poor in this region, making the sheep are quite poor in this region, making the
wool light and indicating a lack of constitution. By examining the fleece in these three parts a Tair estimate may be made of its qualities
QUANTITY OF FLEFCF
which determine the quantity - The chief factors sity and evenness of both of these over all parts.
DENSITY. -The density of the fleece means the closeness of the fibers. Tlechnically it means the number of fibers that grow on a square inch. Density is not only of value to secure a heavy fleece,
but from a breeder's point of view its chief importance lies in the fact that it is more protec-
tion to the sheep than a flecece thet only is a sheep with a flocese that is open. Noy
liable to contract a fleece more lable to contract a cold from exposure to rain or
wind, but it is also more apt to yield a dirty
flecece, as the loose flece and pieces of hay and straw the dirt and dust herd's point of view, the denseness of the fleece is its leading feature, for it will be found that those
animals with dense, close fleeces are less subject amimals with dense, close fleeces are less subject
to such diseases as catarrh, running at the nose. 10 such diseases as catarrh, running at the nose
or scouring. When a sheep experiences a chill, i
at once afficts. at once affects the circulation and sends the blood
to the internal organs, and inflammation or scourThy rusults. This is why sheep that have open Those that have dense fleeces. Wool is one of the
hest non-conductors of heat that we have, and
whon it is
flecce, it gives them the greatest possible protec- Nova Scotia's Possibilities for Sheep
tion from exposure. Furthermore, if the flecece is Husbandry. be sound-that is, free from weak spots. sheep has been badly chilled, or has beco
in any way, so as to cause the pores in any way, so as to cause the pores of the sh fiber at that point. The wool on a sheep grovis from a small sac in the skin, and it passes away from the skin through a small opening which may
be easily contracted or expanded, according to be easily contracted or expanded, according to
different influences. The influences are various, and for that reason it is important that the sheep be covered with a fleece that is so dense, as not to be affected much by external
 Sheep, grain-fed and well protected from the rigor-
ous wintry storms, will furnish wool of much stronger
fiber, making a more durable fabric than wool clipped

The Sheep Market Outlook. With the present high prices for mutton, and the
equally high prices for wool, there is one branch of the
sheep industry that is not, receiving its share of pros perity. We refer to the prices now being paid for pure-
bred rams, and the prices at which they were sold last year. Good wool and good mutton cannot be grown
without good rams, and under the present conditions without good rams, and under the present conditions
breeders of registered bucks would be justified in asking much higher prices than they are now receiving for their
The care and expense connected with the breedThg and feeding of good rams is much greater than that
necessary in producing ordinary ewes, and yet they sell necessary in producing ordinary ewes, and yet they sell
for tittle more than price of the ewe. Sheep men who
propose to purchase rams this year should be prepared propose to purchase rams this year should be prepared
to pay prices in proportion to those they are receiving
for their wool and mutton. The present condition of described as very encouraging to mheep owners, and both sherp salesmen and commission houses predict high
prices for lambs, and grass-fattened sheep from the prices for lambs, and grass-fattened sheep from the
ramize this summer. The disposition to hold back the
ewn lamihs and as many of the ewe flock as possible enw. aniss and as many of the ewe flock as possible
will tond to keep down recpipts. while the demand for
ditor "The Farmer's Advocate":
In view of the fact that so much has been said and
itten about the Western written about the Western Provinces as a profitable
fifeld for investment, will you allow me some space in your widely-read journal to press the claims of the
Maritime Provinces, not only for those who are seeking an outlet for their surplus capital, but also for those
of small means, with strong arms and clear brain with a small expenditure of money, can in brains, who, time a make for themselves comfortable homes amid all the modern conveniences that will take nearly a life-
time to come within the reach of those who invest in a time to come within the reach of those who invest in a
prairie home in the far West. I Io not intend in this
letter to letter to touch upon all the opportunities and possibil
ities that are available in those provinces by the sea but I would like to impress your readers with the
splendid advantages that are here for those who splendid advantages that are here for those who are in-
terested in sheep-raising-advantages that are not erested in sheep-raising-advantages that are not ex-
celled in any part of the world. The climate presents neither extreme of heat or cold. The climate presents somewhat long, owing to our peninsular position, are
never very cold. There are never very cold. There are no blizzards or cyclones;
the summers are delightful; the hills and valleys afford pasturage so good that at two months old lambs will
dress dress from 40 to 50 lbs . of the very best quality of
mutton. mutton; flocks have not to wander for miles in search
of water, for there are living springs and running of water, for there are living springs and running
water in nearly every pasture, certainly at least on every farm. There are no long hauls and excessive
railway rates to get our lambs to market, for a good market is all around us, a market that is a long The sheep industry has steadily improved during the
$\qquad$
nowf and pork products. have operated to the benefit of participated, and while the men who attended would, is not for the sake of keeping up the prices, but rather the reverse. The sheep industry in Nova Scotia is standing on its own legs, and for the reason named,
viz., increased demand, short supply, and the supply viz. increased demand, short supply, and the supply
will likely be short for years to come, and it is up to the farmers who are raising sheep to raise more sheep. and better sheep. There is great room for improve ment. Nature has done much for us ; the Government is doing much. We have a country free from the diseases that affect the flocks in other places. Scab and
stomach worms are unknown. We can raise the feed in abundance that makes the best quality of mutton at the lowest cost. Clover, when given any kind of a
chance, does finely where conditions are right. Two Chance, does finely where conditions are right. Two In turnips we can beat the world-at least, that pa of the world known as America. Oats, vetches and rape do well, and in feeds what more do we want All these are within the reach of the average farmer
It is not to be inferred, from anything written in this letter, that we believe that sheep-raising could be gon into on anything like the large scale they do on the great Western plains, but we certainly do think ther should be a flock of 40 or 50 breeding ewes on every
farm in the Maritime Provinces, where it is possible to keep sheep at all; that, with the ordinary care and at tention exercised in the other affairs of farm life, such a flock would pay a higher dividend than any other live stock, and with less work to the owner. We hear a not the sheep industry solve that problem to some ex ent, and can we not, with the lighter work and in-


Holdenby Daisy (48222)
Shire mare, owned by Messrs. John Chambers \& Sons, Holdenby, Northampton, I

## last ten $y$ ars, and the boom is perfectly legitimate.

 he increased activity in mining and manufacturing cir- the pasture is abundant and wineder here, and when cles; the great inrush of people to the cities and also have their admirers, and do exceedingly well, andtowns, where the demand for labor is so brisk, and a half-bred Southdown and wages so high, afforded a chance for so many farmers butcher. Leicesters and Lincolng among thith the to go into dairying that they sold out their sheep, and thus lessening the number of sheep. The increased consumption of mutton by our people is an evidence that the boon is not to be short-lived. $I_{n}$ conversing with a leading butcher in the city of Sydney lately, he told
me that he could sell ten pounds of lamb or mutto now for one he could sell five or six years ago, mutton he bought all his meat, he has had to pay 15 cents per pound wholesale for lamb this summer. Is not the lambs, and can pet 30 cents per pound for waises 1 am quite well a arare that these high prices are atthe breeders some men to the persistent advertising of sale of breeding stock : others, again think boom the result of the eflorts of a convention held in the is city Halifax early in the spring. None of these contentions breeders of purebred stock are alive to their oppor unities, and have faith in the industry; still, compa ing the prices of pure-bred stock here with those oh-
tained in Ontario, we can see that their part of the husiness is the lenst remunerative of any, and cannot
be compared with that of the man who handles an up-to-date grade flock for its wool and mutton. As to the part played by the convention in bringing about said the better. As far as known, not a single farmer wools have been tried, with the advantong the long the latter; although, in fact, neither are in great do mand as breeders. This is probably owing to the fact that woollen dealers discriminate as much as two cents that they in favor of medium or Down wool, and aliable to catch colds during weather than the thick-woolled breeds. As far as on rough, hilly laad, where sheep have to to rystl, but Iighter-weight breeds, whould sheep have to rustle, the
shire, Southdown and chosen, such as Shropshire, Southdown and Cheviot; while on the richer pas-
tures of the valleys, the tures of the valleys, the Oxfords, Hanyshires and Lin-
colns would, possibly, give better returns colns would, possibly, give better returns, but as this
is a matter of choice, the breeder could not mat
very very great mistake in choosing what he liked best
Having trespassed Having trespassed already so mueh space, without ex-
hausting the subjiect. hausting the subject, I will come again if this proves
of any interest to your
$\qquad$ Flies, heat and short commons reduce flesh more
easily and quickly than good feed and liberal care can possibly restore it. Every year thousands of tons an meat, put on animal frames at heavy expenditure of mismanagement. The feeder who does nountry by Menty of pure water, shade, who does not provide
feed when pastures are short, has no right and green make money out of stock. has no right to expect to

THE FARMER'S ADVOCATE

## Lice on Hogs.

It is a fact well known to many hog-breeders that gnored. It is not, however, generally understorod that fow hogs are free from lice. If this were more gener ally recognized, more attention would be given to keeep ing the hogs free. The thick skin of the hog makes his owner think that it is a complete protection against parasites. This is not the case, for the skin, though thick, is soft enough to be easily penetrated by the ucking instruments of the insects that live on the hog. hat give thaturall go to those parts of the hogs that give them the ber to ries to get rid of them. They gather back of th heavy, and under the breast The bristes are long an suckers, and the amount of blood they can take lood hog is surprising. Very often there are many undreds of them on a single hog. It does not tak them long to produce a weak, debiliated condition a the animal, making him not only unprofitable, but bringing him down to a condition where he is suscep-
tible to other diseesea Fortunat
deteocted on the hog before they in size, and can be numerous. If they are taken in time it is eass tory terminate them, but too otten they are allowed to remain undisturbed, when they, multiply. So far as we know hog lice do not cause the death of the animals,
but they reduce their thrift and also help along but they reduce their thrirt and also help along any
disease that comes. Many a hog that would be able to resist disease, is unable to resist both that disease and lice.

Protessor A. T. Peters, State Veterinarian of Ne affected with cholera were free from lice there was much smaller percentagy of loss sustained than where the
 wase impressed upon him during a period of five years,
when he was examining the herds of the State.
Ho satys that his first rule, where there is an outbreak of choolera, is to hunt for lice, and if they are found hav them thoroughly destroyed belore proceeding to other
It has been suggested before that all of the conby lious diseases among live stock may be spread largely suppose that the lice pass quite freely from one animal to another, and that they suck infected blood from one and do not always insert clean sucking instruments into be waged on lice till all are exterminated.
This preachment, by the Farmers' Review, of Chi-
eago, should arrest the attention of Cago, should arrest the attention of all who keep hogs
in any number, and should lead them to examine their stock for this pest. Hog lice are not difficult destroy or get rido of, as spraying or washing with any
of the sheep dips will puickly do of the sheep dips will quickly do the work, or the
application of any kind of oil or grease will kill them application of any kind of oil or grease will kill them,
Perhaps the surest and simplest cure is in mixture of coal oil and lard, or other oil, as coal oill alone is apt to blister the skin. The applicatio
as the nits will develop into life.

## Pigs is Pigs

In the best serfise of the axiom the above head ing, which is the unique title of the latest humor ous production in book form, is at the presen
time a truism, as applied to the market for liv pigs, with prices hovering around the eifht dol
lars a hundredweight mark, ond more wanted a lars a hundredweight mark, and more wanted at
these figures than are available. If there ever was a time when farmers found no excuse for grumbling about market prices for hogs it is sure ly now. If there was even a remote possibility of profit in raising hogs in the past, as was the
case, within the memory of the writer, when the case, within the memory of the writer, when they
were generally kept till twelve to eighteen month were benerany bing fattened, and were finishod on
old beforth
peas worth nearly a dollar a bushel
the marke peas worth nearly a dollar a bushel, the marke for the product open for only about four of th
winter months, the price seldom up to eight dol ars a hundred dressed weight, and often down t
ess than one-half that figure, there surely eix good money in selling at present prices, pigs ix to eight months oid that have meen mainly aised upon pasture and by-products of the dair
which would otherwise go to waste. believe, proverbial in some countries, though, per haps, not in Canada, that farmers as a class ar not happy unless they have something plain of, a statement which reminds us of the when questioned as to whether he had any "kicl coming" in that regard, replied, " "Such heavy crops were very hard on the land." If Canadians
have a complaint regarding the hog market of the have a complaint regarding the hog market or the
present time, we presume it is that they have not enough porkers to part with in order to reap to a
satisfactory extent the benefit from the booming satisfactory extent the benefit from the booming prices that are going, and, if in a complaining the perverse packers, for "bearing" the market
the
保
where they could buy them cheaper than here though not of as good a class as ours. Whether not, there is nothing to be gained now by reflec tion or recrimination on that score, and the quespare to benefit from present and prospective market prices. We are not informed a s to the prob-
able number of early autumn litters to be counted able number of early autumn litters to be counted on, and to bo prepared for the spring market, but
we should hope that many have provided for that contingency by breeding to have a good share of pigs farrowed early in September, as later litters are apt to become stunted in winter, and prove
Pigs born early in the fall, if given liberty to run out on grass, grow strong in their limbs and lungs, laying a gooo foundation of healthy muscle,
which goes a long way townds carryin successfully through the often enforced confine the of the winter months, while later litters ofte prove unprofitable, becoming crippled from con finement, or a lack of balance in the food sup-
plied, causing indigestion and attendant ills right here is room for study and experimentation in order to arriving at a more satisfactory conclusion as to the best method of winter feeding with a view to avoiding those checks in the
growth of pigs so often experienced in then in this country. The question of "dry sea feeding of poultry in winter is being freely dis cussed, and is scemingly growing in favor, and may Ke worth considering whether the too fre ieeang or sloppy rations to pigs in cold weathe tion found among so many lots of pigs during the winter months. Food swallowed in a sloppy form the glands of the mouth, which serves to make the food more fitted for digestion, and, if fed cold, it must have an injurious effict on the circulation o the blood, tending to indigestion and general de bility. It would appear to be worth while to try
the experiment of feeding the grains or meals dry or, at least, mixed with pulped roots or ensilage with the addition of chaffed clover, supplying


Chancellor of Balyboly.

## Three-year-old Galloway bull. First an

liquids in a separate trough to be taken at will. and in such quantity as the demands of nature been successfully system of feeding we know has of the most thrity winter--ied hogs we have ever
seen were fed by this method, and the wonder that it has not been more generally tried. The operations nowadays to be neglectoct, and every point in his breding and managecturnt, shd every be
studied, in order to bringing out the best that is

## Recommended for Calf Scours

Having seen an inquiry for cure of scours or diarhave never known to fail, I care not in what stago tuls of spirits of turpentine, onehalf cull raw lingeedoil, and one egK, and put it in oil, and one egg, and put it in a bottle, with a pint
of new milk. Sghee so as to mix: vive wo to
She trom the hothe ethe milk should be quite warm); after-
wards feed sparingly a pint of new
 quart twice a day for a week. One dose is generally
sufficint to effect a cure. The cause of scours is over. leading-that is, giving + too much nilk at a timm-or roots, or mixing chopped feced aline on with them from leaky a hancul of chop in the pall just as then calf is atomen Crossffeld, Alta.

## THE FARM

## Preparation for Wheat Sowing

$\qquad$ wheat can te successfully grown with compar land. Crops of this cereal have been harveste this year which are reported as averacing thir bushels per acre, and some as high as forty buch new which is a considerably better yield than the most favorable of seasons ; and the show in th preparation of the seed-bed here need 1:ot b greater than in the newer provinces. A clove sod plowed once in July or August, rolled imme-
diately after plowing, and well harrowed, makes an ideal preparation, and the sowing should as rule, be not later than the first week in Septem ber, unless the Hessian fly has been working in the neighborhood, in which case it is well to con
tinue surface cultivation, especially rain, to conserve moisture, and delay the sowin a week or two longer. A pea field or barle corn field provided the land is in good heart, or some cases, be prepared in time to be sown, wheat, especially if the scason in respect to rail fall is favorable. Pea or corn stubble may no require plowing at all, but by disking or cultivat early in September, and with good prospects for a successful crop. The success of wheat-growing depends very largely upon the proper preparation moist, so as to encourage rapid and firm and growth, giving the roots a strong hold on the ground, and the top sufficient bulk to afford some protection from the frost of winter, and hold the snow as a covering, though there may be danger
of the top growth becoming excessive in the of early sowing in a moist season, causing smothering of the plants when covered with snow. In this, as in most cropping, the farmer must use his stances and the weather conditions. rule can be laid down or followed successfully in all seasons, or under varying conditions, but in a general way, and in average cases, the course in-
dicated in this article may be safely adopted with far prospects for success in safell-wheat growing,
fair gro
which may te profitably prosecuted to xtent in many districts of of Ontario, and some of
he more eastern provinces

The Gasoline Engine for Farm Use.
The modern farmer of to-day, who is abreast his daily rutine work, such order exists on eavery on
up-to-date farm, it is necessary ap-to-date farm, it is necessary to have power;
and as he has read and studied the different classes of power, he is forcibly impressed with the advantages of the farm engines as a means for assisting with the work on the farm. Perhaps
the class of power which is best suited for farm use is the gasoline or kerosene engine; or, perhaps
at no far distant date, an engine burning alcohol. Some of the kerosene engines now being manu-
factured will, without any alteration, also burn alcohol. This puts the manufacturing of fuel al
most in the hands of the farmer is made from potatoes, sugar beets, as well cereals; in fact, potatos produce a greater farm products, and since the than any of the othe alcohol bill, alcohol can be made and sold at at proximately 10 cents per gallon; and as the is made, there is products from which alcoho make his own fuel, should the day ever come when gasoline or kerosene was too high for power Tepend amount of power necessary for the farm depends entirely upon the purpose for which it is
to be used. There are thousands of farms to-day
which are using from size would be used for pumping water, the grind ing of feed for the stock, sawing wood, running the work that was previously done by doing all up to the capacity of 4 to 5 h.-p. sweep. They again, there are farms which require a much larg. amount of power, wishing to run a baling press feed mill-the sizes ranging from 8 to $32 \mathrm{~h}-\mathrm{p}$ Either stationary, semi-portable or portable engines may be purchased, according to the use to, have a portion of the barn or granary equipped
with an engeine belted torm this shaft numerous machines are operated Creameries are also fitted up with a gasoline en
gine, belted to a line shaft, from which is driver cream separators, churns, washing machines (p)erated at the same time at a very small cost

## $\pi$ His

times that of a steam engine, and the first cost What Variety of Wheat to Sow.
is but a trife more ; and when one stons to gine is started, it will be realized at once the en the cost of power is very much less than for
steam power, even though wood could be obtained steam power, even though wood could be obtained
and used for fuel at no expense, as it would require a man to fire it at least, and a man's time
would be worth more than the cost of fuel to run a $10 \mathrm{~h} .-\mathrm{p}$. engine all d'ay under full load.
With a gasoline engine there is not a p chance for fire-nothing to blow sparks into a barn or house. The farmers are appreciating this more and more each day. Where there were
formerly only a few portable engines used for formerly only a few portable engines used for
threshing in the field, there are to-day, perhaps, threshing in the field, there are to-day, perhaps,
more gasoline engines used than steam, on account of their safety. We frequently hear steam plant blowing up, and the engineer and a
number of innocent bystanders being blown to $3 \begin{aligned} & \text { number of innocent } \\ & \text { pieces-with a gasoli } \\ & \text { polutely impossible. }\end{aligned}$ On a smaller plant, where they are not
continuously, they have the great advantage
steam or any other power steam or any other power, of being able to be when they are ready to be shut down all expense ceases immediately as soon as the valve is closed.
There is no water or coal to be cared for, and a five-gallon can of gasoline will run a moderate size fore, the item of fuel for gasoline engine is so
small, and can be transported so easily by hand or by tuggy, that it is not worth mentioning while, on the other hand, for a steam engine it
would require a team, wagon and man to haul would and water, and all of this would be charged
fue to the item of expense.-[J. A. Charter, in

## Encourage the Increase of Bumblebees.

ofitm duportant reason why our red clover is oiten disappointing in the yield of seed is the lack
oi fertilization of the fowers. Entomolocrists toll us that the bumblebee is the only insect that ferthere can be no seecd. Itack of bumblebees appears to me to be the greatest cause of failure of any And why is it so ? ? Notwithstanding their weapon of defence (andd who has not felt the sharpness of th? their enemies have prevailed against them. There is not now ono bumble for twenty there
were thirty years agoo mice or boys have played
 bees, nests, how he used to tick old logs and
stumps, and listen to hear the buzz of bees-it


 nculged in to the same extent to-day; one reason
being that there are no old stumps in which the bees can nest. The wire fences aford poor shelter
or the bees, so they are iast becoming extinct. and we sulferer the penalty of poor crops of clover New Zealand had to import bumblebees before
 $s$ thoy think they are more

 cannot replace old stumps, , logs, etc., but we may
provide other shelters tor these invaluable helpers or ours. We. notice their tond dess for nosting in
 is onninabited by bumblebees. An old but-
for robe, laid away for $a$ time, is oten found to

1








able acreage is about to be put under the drill for for fall
wheat seeding wheat seeding, we probably cannot do better than give the results of the variety tests at the Experimental De
partment of the Ontario Agricultural College, Guelph types of wheat, and to one or the ore the of these types,
or species, all varieties belong. The seven types of
whent whent are as follows :

## Common, fine, or'soft wheat (Triticum vulgare) Turgid, or toulard wheat (T. tur sidum). Hard, or flinty wh

 (5) Spelt (T. spelta). Spelt (T. spelta),Emmer, or starch

## Nearly all of the varieties (

Wheat which are the varieties of spring and winter
mon wheat (Triticum vulyare). mon wheat (Triticum vulyare). Some of the best-
known representatives of other types are as followsWild gosese spring wheat, Medeah spring wheat, Algiers
spring wheat. Polish spring wheat, Miracle winter wheat etc. Practically nothing is known throughout the
Provime Province regarding either the turgid or the one-grained
wheats, as they have never been under general cultivaHINTER WHEAT FOR FLOUR PRODUCTION.-Two
hundred and forty-five varieties been grown at the Agricultural College within the past
sixteen years. Of this number, about two hundred been tested in each of five seasons, and fifteen in each of ten seasons. All varieties of winter wheat are tested for a period of five years, after which the inferior kinds
aro dropped and the most promising sorts are continued are dropped and the most promising sorts are continued
in future tests. The following table gives the average of ten years' results of each of fifteen varieties regard-
ing the color and the weight per measured bushel of the wheat, and the yield per acre of both the straw and
the grain :Dawson's Golden Chafl
mperial Amber
$\qquad$

$$
\begin{aligned}
& \text { Egypti } \\
& \text { Rudy } \\
& \text { Tasmar }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Tasman } \\
& \text { Tuscan } \\
& \text { Tulgaria }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Bulgarian } \\
& \text { Geneva } \\
& \text { McPherson }
\end{aligned}
$$

$$
\begin{aligned}
& \text { McPherson } \\
& \text { Turkey Red.... } \\
& \text { Kentucky Gia }
\end{aligned}
$$

Sixty-one varieties winter whent 55.
the Experimental Department during the past year. The Chafr class, having beardless heads, red chaff, and white grain. The yields in bushels of grain per acre of these
varieties were as follows: Abundance, 62.7 . No White, 61.0 ; Superlative, 60.1: Dawson's Golden Chaff 59.5 ; and American Wonder, 58.7 . In weight of grain per measured bushel, all the five varieties went over the
standard of 60 pounds, the Dawson's Golden Chaf and the Abundance reaching 61 pounds. These varieties are all softer in the grain, but yield more bushels per Turkey Red, Crimean sorts as Tasmania Red, No. 5 Red, grain in of red wheat which gave the highest vields of grain in the past year were as follows: Imperial
Amber, 58.2 bushels ; Auburn, 57.7 bushels; Genesee
Reliable, 57.1 bushels. Farly Reliable, 57.1 bushels; Early Ontario, 56.8 bushels;
and Prosperity, 55.9 bushels per acre. The average yield of grain per acre in 1905 was 56.7 bushels for for the forty-three varieties of red wheat. Generally speaking, the white wheats yield more grain per acre
possess stronger straw, weigh a little less per measured
bushel bushel. and are slightly softer in the grain than the red
varieties.

## Weeds. <br> To me the mennse tower that grows can give

How expressive of the feelings of the average
weeds! The old saying is that "Nature oid and desert place is seems to be true, for no hor a wend of some sorte. The lawn is covered
the public schools teach something of the commo weeds of farm and field? Not long ago, a farmer ng it in his garden patch, hecause he thought it that is needed. for cattle. man, woman or child liv ing in a country district should know the common weeds, and until they do we shall continue to be
cursed by the plague of weeds. cursed by the plague of weeds.

## The Hessian Fly

During the summer complaints have reached us from several sections of damage to fall wheat by that old enemy, the Hespian fly, and it will be
well for farmers in infested districts to take reasonable precautions that the crop now atout to be sown may be not unnecessarily ravaged. The Hessian fly, as most of us are aware, hatches two
distinct broods in the fall-wheat In the Northwest there is usually only one. In In the Northwest there is usually only one. In in August and September, and lay their eggs on these eggs minute grubs hatch and make their way down the stem to the base, where they thei way down the stem to the base, where they embed
themselves and feed upon the sap of the plant By winter they have entered the pupa stage, be, coming what are popularly known as " flaxseeds."
In May and June flies will emerge from the "flax In May and June fies will emerge from the "flax-
seeds" and lay eggs on the wheat blades for another brood. Again grubs hatch from the eggs and make their way down the stalks, this time embedding themselves at one of the lower joints
of the stem. It is these maggots which harm noticeable at the time of ripening. They pass the summer as "flaxseeds," in the stubble as a rule, and the flies appear in August and
September, as above stated. The immediate effect of the larver or prubs in the young wheat is to either kill the plants outright or to so weaken them that they make a poor growth, and in all in the following spring the flies from the hibernat ing flaxseeds lay their eggs, from which hatch the spring brood, which causes the crinkling of the grain and prevents the kernels from filling. The
fly is thus a double scourge. In Manitoba, where the spring brood is the only one, the fies are carried over winter in the pupa stage of the earlysummer brood.
With us, the appearance of the fall brood of adults is believed to vary somewhat, according to the breeding season is believed to be favorable to the development of these insects. If during the last week of August the weather were cool and moist, the fies would come on rapidly, and be at September, whereas, if the weather continued hot and dry till well into September, the appearance of the laying flies would be deferred somewhat, would be in danger of being affected. The of investigators is that wheat may be sown, with comparative safety in any locality a week or ten days after the fall brood have emerged and com-
menced laying their eggs. To attempt to formulate a rule prescribing a date at which to formuto sow fall wheat in all seasons is unsatisfactory, although the consensus of opinion is that wheat ordinary season to miss the istentions of the ege layers, and in some years it is comparatively saf There is this any time after September 10th There is this in favor of deferring seeding till, ground frequently until that date more weed seeds are germinated and destroyed, while the tillage puts the ground in the best possible condition to nsure prompt germination and thrifty growth of a top as it would do sown earlier in a less per fectly prepared seed-bed. The brood comes on tudtes earlier in northern than in southern latiudes, a fact which is fortunate for farmers in part of September in order to secure enough top stand the winter.
There are sometimes apparent anomalies in conuninformed, tend to discredit the recomich, to the of investigators. early has been known to come on ahead of the fly and when the latter appeared it seemed to prefer the more tender blades of the later-sown crop tional circumstance, and one hardly to be depended on. Some varieties of wheat are more re-
sistant than others sistant than others. Varieties with large, coarse,
strong straw are less liable to injury than weal strong straw are less liable to injury than weak-
strawed, slow-growing varietics. Wheat a stuble slow-growing varieties. Wheat sown on
preve the fly had been bad on the previous crop would run a much graver chance of not been grown for a year or so. Wheat on dry
ish, poor land is ish, poor land is much more suscentible to injurythan that on rich, moist but wetl-drained injury
thoil.
Thick seeding and vigorous growth tend to ward
off injury by the fly. A method that is frequently
recommended but not verv often practiced is sow "decoy" strips of wheat late in Aucticed, is to
of the flies will be indur Many these strips, which may then be plowed under and the eggs destroyed. Do not let. the strips stand sowing the main crop.
In combating Hessian fly, great stress is laid by entomologists on cultural prat stress is laid
which tends to inctice. Anything which tends to increase the vigor of the crop
helps to ward off the fly, or, at least, to minimize helps to ward off the fly, or, at least, to minimize Ohio, who has studied the Hessian fly for many years, believes that four-fifths of its ravages may
be prevented by a better system of be prevented by a better system of agriculture.

## THE DAIRY.

## A Day in a Cheese Factory

Though cheese has for years been Canada's leading
dairy product; though the factories where it is made dairy product; though the factories where it is made
may be counted by the dozen in nearly every county of may be counted by the dozen in nearly every county of
Ontario and Quebec, while some are also operated in
the Maritime Provinces : the Maritime Provinces; though it is is with us a more
or less common article of diet, and though many thoule or less common article of diet, and though many thou-
sands of our farmers rely chiefly sands of our farmers, rely chiefly on their monthly
cheesefactory checks as a source cheese-factory checks as a source of income, there are
millions of Canadians, and among them, no doubt number of "The Farmer's Advocate" readers, who lack even a general idea of the processes by which this
staple food is manufactured staple dood is work in a cheese For such, a description a member of our editorial staff, may be of interest. Typical of the better class of factories is the North Oxford factory, in the famous Western Ontario dairying County of Oxford. This is the district where one of
the first cow-testing associations in Canada was organized last winter. The factory, which is situated about two and one-half miles north of Ingersoll, is a neat brick structure, surrounded with maple trees.
of them line the driveway which passes the we
of them line the driveway which passes the weighstand
of the factory, and here a whole string of milk wagons may stand in the shade waiting their turn to unload. This is far better for the milk than keeping the cans in
a blazing hot sun. It does not sour so a blazing hot sun. It does not sour so quickly, it makes better chesse, besides which is the comfort of the
men and horses, not to mention the esthetic value of men and horses, not to mention the esthetic value of makers and patrons. Not all, factories are brick, by
any means, and not many have shade trees, but the any means, and not many have shade trees, but the
tendency is towards better buildings and nicer surroundings.
The history of this factory is like that of many others. Built originally as a private enterprise, it was afterwards taken over by a joint-stock company, but
Has now passed back again into private control. Mr G. M. McKenzie is the modest but capable proprietor and maker, being assisted by his two sons and a hired
hand. There are 76 patrons on the books, and the make has annually increased to last year's respectable
output of 215 tons of cheese. June, 1906, was the record month, $\$ 8,000$ worth of cheese being made. From this, one patron's net proceeds, deducting the cost of making. figured out a check for $\$ 262$, besides which he eceived pay or a portion of his milk which he sold in
town. Last year the cows in the herd of Peter Dunne. who used to be a cheesemaker, but is now farning, averaged 7,000 pounds of milk apiece during the chese
season, April 1st to December 1 st. Holsteins and their season, April 1st to December 1 st. Holsteins and their
grades are the favorite breed in this district. FROM FARM TO FACTORY
We need not pause to describe a dairy farm. The
sight is familiar to all our readers.
The rising at 4.30 or $5 \mathrm{a} . \mathrm{m}$. to get the milking done, the arrival of the milk hauler at any time from 6 to 7 , according of the flat-topped milk wagon along the road, with it one to two dozen milk cans, hauled by a usually
rakish-looking team; the arrival of the haule actory weighstand, hour behind waited in a processin in ahead of him; the lifting, weighing and emptying
each can, with the cheesemaker there to sniff as the is pulled of the can, to see if there is evidence of sourness, dirt or bad flavor of any kind that might caus
trouble afterwards in the vat of milk; the driving few yards away to the elevated whey tank, where thil recently-emptied milk cans are filled with whey from
the previous day's make of cheese; the return trip in then the previous day's make of cheese; the return trip in the
blazing forenoon sun, and the delivery of the cans at the milk stands along the route, whence they had ben picked up a few hours earlier-all these things ar common-place sights in the dairy sections. One of our
illustrations shows the last driver of the day just ready start back with his load of whey. His team, though not one of the best in this particular section, stouter looking and better fed than a good many tha may be seen elsewhere. Milk hauling is a sort of dog
ife for man and beast, and it is rather the exception ife for man and beast, exceptio Some patrons prefer to haul their own milk. Thase get their cheese made for $\$ 1.0 \mathrm{O}$ a cwt., whereas th others pay $\mathbf{\$ 1 . 5 0}$. It is hard to get haulers nowadays and the maker at North Oxford has to pay them more
than he makes out of the extra 50 cents a hundred pounds of cheese that he charges patrons for the service
be no question of the economy of having his milk lactic acid. The object is to produce a uniform qua: hauled on the above terms. exceptinm, perhaps, a few ity of cheese. It is accomplished by adding to each large patrons, who are situated near. the factory, or vat a pailful of "starter," which is milk of the pr."
who have an old man or a boy to make the daily t, ip. vious day soured by inoculation with a pure commercial Who
$\qquad$
process of it will con to a clearer idea of the process of manufacture to preface the description with cheest is practically the only kind made commercially in


Diagrammatic sketch of an acidimeter.

Canada. 1 After being received at the "d actal was run into five long vats, holding 5,000 or 6,000 Here operations each, one being filled after unother. Ripening the milk, coloring (optional), renetting, cut ting (once horizontally and twice perpendicularly, cu rule), cooking, dipping, matting, milling, salting, hool ing, pressing (lightly at first, about one hour), dressing, pressing again, putting the cheese into the curing
room, turning them on the shelves, boxing and ship ping.
$\square$ 2k

The North Oxford Cheese Factory, near Inwersoll, Ont

ng Back with a Loond of Whey
lactic-acid culture. Either of two tests may be usud
to determine the proper degree of ripeness. The old test was what is known as the rennet test, and this is
still used in many cases. called the acidimeter has been used for this appraratus
caser any and well as to determine the percentage of acid at various successive stages of the process of manufacture. The acidimeter is an appara. Is for measuring the
percentage of acid, or, that is :o say, the degre percentage of acid, or, that is to say, the degree of
sourness in milk. Its principle is very simple. It is sourness in milk. Its principle is very simple. It is
a well-known fact in chemistry that acids and alkalis Mave the power to neutralize each other's properties. Moreover, it is known that the act of neutralization is
a definite one; that is, for a certain euantity a ceinite one; that is, for a certain quantity of
acid a certain quantity of an alkuli (also called "base") is required to effect neutralization. The acid. meter is a means of measuring the amount of a standard alkaline solution required to exactly neutralize the acid in a given quantity-say 10 cubic centimeters-of to a beaker, and the neutralizer slowly added from graduated burette, with a pinch cock at the lower end.
To indicate when the To indicate when the point of neutralization has been
reached, a "color indicator" is put into the milk befor reached, a "color indicator" is put in ${ }^{+}$o the milk before
adding the alkaline solution. The indicator consists of three or four drops of phenophthalein, a substance which shows no color when the liquid is acid, but changes promptly to a pink when the neutral point is reached. vermanent color. Note is then alo produce a of the alkaline solution that has been used, and the percentage of acid in the milk is methodically calcuAfter the starter has been added the coloring matter is put in, unless it is desired to make white or un-
colored cheese, as is done in the North Oxford factory Cheese coloring is made from annatto seed dissolved in an alkali ; also from coal tar and from saphron. Color-
ing matter adds no food value; it is rank-smelling stuff, ing matter adds no food value; it is rank-smelling stuff, to demand it. A large quantity of uneolored cheese is now manufactured. The usual amount of coloring
added is one to one and a half ounces per 1,000 lbs. added is one to one and a half ounces per 1,000 lbs.
of milk. When the acidimeter indicates that there is . 19 per
cent. of acid in the milk. it is "set" (temperature, 88 cent. of acid in the milk, it is "set" (temperature, 88
degrees Fallr.), hy the addition of three to five ounces degrees Falr.). hy the addition of three to five ounces
of rennet prer 1 ,om pounds of milk. Rennet is an ex-
tract from andis rart from a calf's stomach, but it is now also ob-
tnined from plants, such as figwort, mellonwort, etc It is sold in two forms, liquid and powder. The pow-
dered form is seldom used in Ontarion tered form is seldom used in Ontario. Rennet acts on
the casein of milk, splitting it up into two compounds soluble and insoluble. It will not work properly on milk which has been boiled, or which is alkaline. Its visible effect is to thicken the milk into a smooth,
white, jelly-like consistency, like the familiar thick mill the familiar thick milk

## normally coaculation is

 about half an hourfrom the time of add-
ing the rennet. At ing the time of add-
ing thet. At
inis stage the ${ }^{\text {and }}$ cutting "" begins. The
first is horzontal cut-
ling. A curd knife is irst is horizontal cut-
inn. A curd knife is
used, with a number
 Ruming this through
the vait lenethivise cuts
the curd into saycos.
A similar knife, with the similar knife, with
thes vertical,
use. to be employed
for the vertical wit. for the vertical cut-
tings, but now a ver-
tical knife is arde
"ith wires instead of "ith wires instead of
Blades. The new
 Mardily expelled while
loting or cooking is $\underset{\substack{\text { lowing done. } \\ \text { cutting } \\ \text { and }}}{\text { Careless }} \begin{gathered}\text { rough }\end{gathered}$ handling of the curd injures the texture of
 cutting, the curd tends (") mat together agdin.
 (run by an agitators
are used, several beinine
are
stirring, and much agitators (momentarily stopped so number of then a thotugraph
might be taken) are shown in one of our While the agitation is in progress the cooking procurs. By steam connections under the vats (a distinctive fea-
ture of Canadian cheddar-cheese making) ture of the vat is gradually raised from 86 to 98 , or
even 102 degrees, the aim being to even 102 degrees, the aim being to get it to this tem-
perature in an hour to an hour and a half. The steam perature in an hour to an hour and a half. The steam
is then turned off, and in one and a half to two hours
the curd is ready to "' dip." Sometimes, however the curd is ready to "dip." Sometimes, however, a
certain vat containing some overripe (sour) milk will be "fast-working,"" and be reatdy to cip in an hour.
The philosophy of cooking is this: The heating cause contraction of the curds, and, consequently, expulsion of moisture, notwithstanding that the pieces of curd are
floating in a bath of whey. floating in a bath of whey. This contraction of the
curd is brought about by the action of the rennet curd
development of lactic by acid, which action of the rennet and
rapes place very development of lactic acid, which takes place very
rapidly at this stage. A membrane forms over each piece of curd, which retains the fat that has been in-
corporated with the casein, but allows the moisture to corporated with the casein, but allows the moisture to
pass through. Pieces of a well-cooked curd should not
is thrown over the bottom and sides of the drainerthis holds the curd, while allowing the moisture drain away. The curds are then stirred about
hand until they are drained comparatively dry " The curd is then allowed to settle together strips about six inches wide, four inches thick, fourteen to sixteen inches long. These are turned over and, subsequently, reversed several times. About two
hours after dipping the curd is ready for hours after dipping the curd is ready for " milling," an
operation that may usually operation that may usually be deferred till after noon.
The drainer is wheeled under the mill, and the chunk of matted curd are fed into it by hand, the milled curd dropping in the other end of the drainer. Ther
are several makes $0^{\circ}$ mills, are several makes oo mills, but all are now usually short, square strips, about three-eighths of an inch in diameter. The more uniform the size of the pieces the
better.
When the curd becomes velvety, and has a nice but tery flavor, it is ready for salting. About two to two and curree-quarter pounds of salt per hundred pounds salting is now commonly the lot. The lighter rate of salting is now commonly preferred. In the North Ox
ford factory the salt was first lizhtly brushed

oking the Curd. Note the Automatic Revolving Agitators.

## it out. The greater the

 amount of acid the moreductile the curd be-
comes. When it draws out about an eighth of
an inch the curd is
ready to be senarate ready to be separd is
from the whey from the whey-i.e.e, it
is teclonically ready for
"dipping." "dipning, acidmeter
will in
to .2
 in the whey. 2 per $\begin{aligned} & \text { Irom } \\ & \text { of a } \\ & \text { This, } \\ & \text { will }\end{aligned}$ be about the same perce, i
age age as wame percent
at a in indicated The time of setting the whe explanation why


Stirring the Moisture Out of the Curd, Just After Dipping.


Putting the Curd in the Hoops.
surface and then mixed through it with a special tool,
resembling a fork with the end of each tine bent into an O-shape. This obviates the disagreeable job of mixing with the hands, which, if they happen to have any abrasions on them, are so affected by daily confact with salted curd that they get extremely sore.
When the curd in all the drainers has been salted When the curd in all the drainers has been salted it to steel ohes, of the kind shown in our illustration. The hoops are filled with a pail, which is hung on a tory the rule is 96 pounds of curd for each intord and this will make about an 94-pound cheese.
When all the hoops in one press are full, they are
laid end to end, and screw pressure by means of aid end to end, and screw pressure by means of a
lever applied at one end, crowding all the hoops tolever applied at one end, crowding all the hoops to-
gether and expressing the remaining whey. After being pressed for rather less than an hour, they are taken out and the "banding", (with cheese cloth) is "fin-
ished"" neatly. They are then put back in the press ished" neatly. They are then put back in the press
and left till morning, when they are once more taken and left till morning, when they are once more taken
out, each cheese turned end for end in its hoop, and pressed again for a time. They are then taken out for the last time, and put on the shelves of the curingroom, where they are supposed to remain about two
weeks. The last four seasons-1903, 1904, 1905 and weeks. The last four seasons-1903, 1904, 1905 and
1906-the North Oxford factory is sending its cheese daily to the Government cool-curing room at Woodstock.
The high prices this season result in haste to ship the cheese, even from the Government curing-room, where the loss in weight during curing is not so great as in an ordinary over-heated curing-room. In many inctories the cheese are being bought and shipped with-
in a day or two after leaving the hoops. The curing must beaving the hoopd new-made cheese is about as digestible as India rubber. It is only when bacteria have broken down the insoluble comes into soluble digestible forms that cheese becomes the wholesome, nutritious article of diet that
constitutes alike the staple food of the English poor and the delicacy of the rich.

## Cow Testing.

The table giving the result of the first test at
Chicoutimi, Lake St. John district, shows that the 154 cows averaced, in the 30 days ending $J$ cows averaged, in the 30 days ending July 23rd, 718
liss. of milk; thus the milk record of the best cow in Mer. of milk; thus the milk record of the best cow in
herd 22 , namely, 1,170 lbs., is an object lesson. If a few more cows gave 452 pounds above the average, What a general improvement would be made. That
same $1,170-\mathrm{lb}$. cow is just 400 pounds better than the highest producer in herd 31. The lowest individual yield was 420 lbs ., or 750 lbs . less than the highest. This first test in another of the Lake St. John digtrict associations, Riviere a l'Ours, opens with 112
cows, and a rather low average production of mille and fat per cow, about three hundred pounds of millk per cow less than it should be. The highost individual yield of milk is 820 pounds in herd 14, nearly double room for improvement ! The lowest individual will yield was 200 pounds. The table giving the result of the seventh test at
Cowansville, Que., shows a slight decrease of 2 pounds Cowansville, Que., shows a slight decrease of 2 pounds
of fat on the average from the June test. With an average production of 582 lbs. milk for all
lhe 391 cows tested, there the 391 cows tested, there are four conspicuous herds
with individual cows giving over 1,000 lbs. There is with individual cows giving over 1,000 lbs. There is
plenty of room for more such individuals. plenty of room for more such individuals. The highest
average yield of milk by a herd was 786 lbs., the lowest 445 lbs . Highest individual yield, $1,060 \mathrm{lbs}$; lowest, 200 libs. The firth test at St. Armand, Que., ending July
23rd, gives a decrease of 2 lbs. of fat per cow from
the June test. Herd No. 15 has the or an eight-year-old common grade cow of $1,610 \mathrm{lbs}$ milk. She calved in May. The ten-year-old common grade cow in herd 27, calved in March, also showe up
well, with 1,220 lbs. milk. The highest herd average for the 30 days was 760 lbs. milk; the lowest, 236 lbs. Highest individual yield, $1,610 \mathrm{lbs}$; lowest, 190 lbs , The figures giving the result of the fourth test at North Oxford, Ont., for the 30 days ending July 23 rd, show a shrinkage from June of 137 lbs. milk per cow.
Probably, if the heat of July had been prepared for in May by everyone in the test sowing a supplementary soiling crepp of pers and oats, the $1,000-1 \mathrm{lb}$. average of
last month might have been repested average for a herd was 1,083 lbs.; lowest, 119 highest average for a herd was 1,083 lbs.; lowest, 719 hs .
Highest individual yield, 1,420 lbs.; lowest, 145 lbs .; highest test, 4.2 ; lowest, 2.4 . lbs.; lowest, 145 lbs .

## Feeding Fat into Milk.

Bulletin No. 222, of the Cornell University, is
entitled, " Record of an attempt to increse entitled, " Record of an attempt to increase the following is a summary of this bulletin:
In a herd of poorly-fed cows an abundant ra tion, easily digestible and rather nitrogenous in character, and continued through two years, reper cent. of fat in the milk. This was accomplished by an increase of about 50 per cent. in total amount of milk and fat produced. The increased production was secured conomically, so
far as the food cost of milk and fat is concerned Whether the experiment was comprehensive enough to be really conclusive is open to question.

English Butter Test and Milking Trials In the oneday butter test for cows of any breed or cross, at the Tuntridge Wells Show, July 26th, the
averages of the 12 cows in the competition were as to lows:

$$
\begin{aligned}
& \begin{array}{c}
\text { Days in } \\
\text { milk. }
\end{array} \\
& \text { Milk. }
\end{aligned} \quad \begin{gathered}
- \text { Yields- } \\
\text { Rutter. }
\end{gathered} \text { Ratio. Points. }
$$

$$
12 \text { Cows } 120 \begin{array}{ccccccc}
\text { rb. } & \text { oz. } & \text { lb. } & \text { oz. } & & \\
\hline & 33 & 13 & 1 & 14 \frac{1}{2} & 17.68 & 38.55
\end{array}
$$ The first prize of $£ 10$ went to Dr. Watney's Jersey of milk, 61 days after calving, was 45 lbs . 6 ozs., and of butter, 2 lbs. 13 ozs.; ratio, pounds of milk to pounds of butter, 16.13. All the other cash prizes and

five certificates of merit also went to Jersey cows , the record of the second winner being 34 lbs. 12 ozs. milk and 2 lbs. $2 \frac{1}{2}$ ozs. butter, 155 days after calving. In the milking trial, open to cows of any breed or
cross, the first prize went to a dairy Shorthorn, Mr. D. Kelly's Minit 2nd, five years old, her mik record, 11, also went to a dairy Shorthorn, 8 years old, her yield 144 days after calving being 59.9 lbs .
Russel, gave. 95 days after calving five-year-old, Lad Russel, gave, 95 days after calving, 41.6
lbs. $4 \ddagger$ ozs. butter, and won the first prize.

## Cow-festing in Alberta

Under the guidance of C. Marker, formerly of tawa, but now Dairy Superintendent in the Provnce of Alberta, the Agricultural Department at Edmonton has interested farmers of that Province
in forming District Dairy Record Associations, the scope and purpose of which are similar to those of the cow-testing associations recently organized

GARDEN 衫 ORCHARD.
Pruit-growing in British Columbia.
Fruit-growing in British Columbia, like the climatic and soil conditions in its various districts, is so diversified in character, and of such importance, that it is hardly possible to do the industry anything like justice
in the space at our command, and when the reader has perused this article to the end, he must bear in mind that there still remains much to be said.
Less than sixteen years ago the first full carload of Less than sixteen years ago the first full carload of
fruit was shipped out of British Columbia. In the season of 1904 the fruit crop was valued at $\$ 600,000$,
and the area under cultivation estimated at 14,000 acres. In 1905 the area under fruit had been increased from was nearly one million dollars. In the same year \&rom was nearly one million dollars. In the same year
something like $\$ 500,000$ was expended in the purchase and improvement of fruit lands, and the average price
received for grade No. received for grade No. 1 apples, from October 1st, 1905 ,
to March 31 st , 1906, was $\$ 1.27$ per $40-1 \mathrm{~b}$. box, f.o.b. to March
shipping point. The early varieties started out at $\$ 1$
net, and during the latter part of February and March as high as $\$ 2$ per box was being parid for strictly No. for the season of 1905 were: Pears, $\$ 1.38$ per 40 lb for the season of plums were:
box ; prunes and plums, 75 cents per $20-1 \mathrm{lb}$, box; peaches, $\$ 1.15$ per $20-1 \mathrm{~b}$, bo $:$ strawberries, $\$ 2.30$ per 24 -basket crate ; raspberries, $\$ 2.19$ per 24 -basket crate; blackber-
ries, $\$ 2.40$ per 24 -basket erate: qooseherries, $5 \ddagger$ cents per pound; crab apples, $2 \frac{1}{2}$ cents per pound ; tomatoes, $5 \frac{1}{2}$ cents per pound ; curr
ries, 9 cents per pound.
Outside of the quantities consumed in our own cities the chief market for British Cowumbia fruit is the the best that the fruit-grower can produce, and in everincreasing quantities, so that Rritish Columbia need have of an over-production of good, clean, commercial varie
ties. On the vast plains to the east, fruit-growing on a commercial basis is not likely ever to be a success. That territory is bound to increase rapidly in popula-
tion, and the consumption of fruit will be enormous. It is a curious fact that the average family on the prairies of the Northwest consumes more fruit than to those of
British Columbia, and it is quite natural alko to expert British Columbia, and it is quite natural also to expect
that as the farmers of the prairies succeed within a that as the farmers of the prairies succeed to knep comparatively few yerrs
them in comfort for the rest of their lives, they should look to British Columbia, with its congenial climate.
magnificent scenery and tremendous unexplored and unmagnificent scenery and tremendous unexplored and undeveloped natural resour
their declinin? years. an do is to develop the fruit-growin industry, and t send large quantities of first-class fruit, properly grown will judiciously advertise the Province, and bring our own people here as soon as they hecome tired of the more rigorous climate of the prairies.
The geological formations and climatic conditions The geological formations and climatic conditions
render it necessary to divide the fruit-growing area of render it necessary to divide
the Province into nine geperal divisions.
No. 1 might be called the south-western coast district, which includes the southern half of Vancouver
Island, adjacent islands, and what is usually called the
lower mainland. Here the production of small fruits Spallumcheen river. Here the natura! rainfall is sufficient, may be said to be more successful, and, consequently, and splendid apples, pears, plums and cherries are suc more proitable than that of the tree fruits. Neverthe- cesssully grown. The climatic conditions in this dis-
mose
less, there are a number of very excellent varieties of trict resemble very much those of southern Ontater less, there are a number of very excellent varieties of trict resemble very much those of southern Ontario,
apples, pears, plums, prunes and cherries, which grow and a fruit-grower with fixed ideas from the latter apples, pears, plums, prunes and cherries, which grow and a fruit-grower with fixed ideas from the latter
to perfection in this district, besides many different province might be more successfull in this district than to perfection in this district, besides many different Province might be more successfulin in this district than
varieties of nuts, and, in especially favored spots, he would on irrigated lands. The timber is, generally peaches, grapes, nectarines, apricots and other tender speaking, light, and the land rich. ruits.
In most parts of this district, the mild character of Larkin southward to the international boundary. Trem the climate and the excessive moisture during the winter vicinity of Kelowna in this valley contains the largest season are very favorable to the development of fun sous area of fruit lands of any one place in the Province.
diseases, and it is, therefore, necessary to practice per- Peaches are now being shipped in large quantities from diseases, and it is, therefore, necessary to practice per- Peaches are now being shipped in large quantities from
sistent and systematic spraying of the orchards, clean the Okanagan, and all other northern fruits are success-
 fully grown by the
irrigation
system. $\begin{array}{ll}\text { irrigation } & \text { system. } \\ \text { Improved } \\ \text { modern } \\ \text { methods }\end{array}$ mproved modern
methods are in
general use by tho general use by the
growers in this dis-
trict dustry is, perhaps, in any other part
of British Colum-
bia. No. 6 is usually called the Boundary
or Kettle or Kettle River
country, and
though the smallest though the smallest
of all the dis-
tricts named. the tricts the dis-
quality ofed, the
of the land is excellent, and
the climatic conditions all that could be desired. Where a sufficient water
supply is obtainable there is no
troubbe in produc-
ine fruit ing fruit of th
highest quality.

Trank Richter's Orchard, Keremeos, B. C.
cultivation of the soil, and a thorough system of underDistric order to get the most profitable results. Fraser, the main Thompson, the North Thomson upper Nicola and Bonaparte rivers. Here there are practically none of the above-named difficulties to contend one requiring suestion of water to irrigate the lands is abundant supply of water in the dry belt it is an sible to be sure of a crop every year. The prospective thuit-grower, however, does not have to contend with the heavy forests along the Thompson river that have of the very highest quality, and include all the varietieg mentioned in connection with district No. 1 .
The largest quantities of grapes shipped annually from any one point in the Province are produced near the junction of the Fraser and the Thompson rivers.
District No. 3 may be briefly described as the valleys of the Similkameen and its tributaries, portions of which are, perhaps, the most tropical in climatic con-
ditions of any part of British Culum ditions of any part of British Columbia, and most
favorable locations for the cultivation of crapes, peaches favorable locations for the cultivation of grapes, peaches
and other delicate fruits, wherever sufficient water for irriation purposes is available.
Shuswap ${ }^{4}$ includes Mable lakes and the
where only a little progress has been made istict, the southern portion, but sufficient to indicate the pos sibilities and the superior quality of the fruit which
may be raised along those lakes may be raised along those lakes and streams. The
neighborhood of Nelson and Kaslo has accomplished neighborhood of Nelson and Kaslo has accouplished
wonders in the last few years, but the shores of the Arrow lakes are practically untouched by the hand of the fruit-grower, and the valley of the Columbia, from
the Big Bend south to Arrowhead, affords opportunitie the Big Bend south to Arrowhead, affords opportunities
little dreamed of by many of those in search of fruit hittle dreamed of by many of those in search of fruit
lands. In the greater part of this district, irrigation is only necessary in the very dry seasons. District No. 8 is the country known as East
Kootenay, and is separated from No Rootenay, and is separated from No. 7 by the Dog-
toth range of mountains. It is traversed by the Cpper Kootenay river from Thunder Hill southward to Phillips' range, on the international boundary, and from
Thunder Hill northward, by the Upper Columbia river Thunder Hill northward, by the Upper Columbia river,
to the Big Bend. In the southern portion of this dis trict there are immense stretches of thinly-wooded lands, suitable for fruit-growing purposes, and the valley of the Upper Coiumbia has many choice locations for the
enterprising fruit-grower. The lack of enterprising fruit-grower. The lack of transportation
facilities is a great hindrance to the development of the facilities is a great hindrance to the
fruit lands of the Upper Columbia. District No. 9 comprises the coast region, from
Jervis Inlet to Skeena river.


Apple Trees, Coldstream Ranch, Vernon, B. C.


## British Columbia Cherries.

its capabilities, but, undoubtedly it has a few surprises
in store for the future. Though in small quantities as in store for the future. Though ir small quantities as
yet, apples, peaches and grapes have been successfully yet, apples, peaches and grapes have been successfully
grown on the Skeena. The first apple trees were
planted at Hazelton in the spring of 1901, and fruited in the fall of 1904 .
For a considerable distance inland, from the west coast, there are a number of valleys and plateaus, which
are well adapted to growing many of the hardier warle are well adapted to growing many of the hardier varie-
ties, though fewer in number than those capable of being
developed in the first-named district. Notwithstanding the conditions and adaptabilities
which may be, in a generall way characteristic which may be, in a general, way, characteristic of the
large districts above mentioned, there are always peculilarge districts above mentioned, there are always peculi-
arities of soil and climate, soil moisture, atmospheric
currents, etc. which must be taken into consideration currents, etc., which must be taken into consideration,
and intelligently utilized in a common-sense way by the individual settler when choosing varieties to plant o
deciding on methods of cultivation. deciding on methods of cultivation.
for irrigation purposes is limited, should always be borne in mind, and in those portions, of the Province where irrigation is necessary, the prospective settler or invest-
or should be exceedingly careful that a proper supply or should be exceedingly careful that a proper supply of
water is available, and that he secures a legal right to use it when purchasing fruit lands. There are many of
the so-called dry districts where the soil moisture, with the so-called dry districts where the soil moisture, with
proper cultivation, is quite sufficient to produce a full proper cultivation, is quite sufficient to produce a full
crop in an ordinary year, but there comes, periodically, the extraordinary year when, without any, artificial sup-
ply of water at hand at the critical time, the whole ply of water at hand at the critical time, the whole
crop may be lost. In the arid districts it must be seen to that the right to a sufficient supply of irrigation
water is obtained, whether needed every year or not. There are immense fertile table-lands along the Thompson, Columbia, Kootenay and Similkameen rivers,
and the Kamloops, Okanagan, Upper and Lower Arrow and the Kamloops, Okanagan, Upper and Lower Arrow
and Kootenay lakes, which cannot be irrigated from the and Kootenay lakes, which cannot be irrigated from the
available mountain streams, but it may safely be pre-
dicted that some day, in the not distant future, a available mountain streams, but it may safely be pre-
dicted that some day, in the not distant future, a
genius will arrive who will contrive to invent a comgenius will arrive who will contrive to invent a com-
paratively cheap method of pumping the water from these large reservoirs up to the higher levels, and who
then will venture to estimate the quantity of rare and then will venture to estimate the quantity of rare and
luscious fruits which this Province may be capable of producing, or the gratitude that future generations will
lavish on the memory of the man who shall makie the cultivation of these beautiful plateaus possible? Then
(1) water highway, through the midst of densely-populated one continuous line of superb villa homes, and all up
and down those scenic galleries of luxurious gardens will
dwell the kings and queens of husbandry in the happy dwell the kings and queens of husbandry in the happy By establishing high standards and the practice of
high ideals, both in the quality of their products and business methods, fruit-growers of British Columbia
should have a large share in building up the commercial character of the Province, which, like the golden beams
of the summer twilight, shall shed its benign influence of the summer twilight, shall shed its benign influence
eastward over the great Dominion of Canada.-[ Maxwell eastward over the great D
Smith, in B. C. Review.

What is pluck? Pluck is the unconquerable spirit which enables one to defy discouragement,
persevere, prevail, and turn defeat into victory.

Exhibition Fruit and Fruit Exhibitions. say for several reasons, fruit orthibitions are not as a rule, so instructive as live stock and other hows. Certainly they are not as instructive as
they ought to be. of course, in a way, the livestock men have the advantage of the fruit men, shom the fact that when they bring a cow to a show, for example, they are bringing the whole
thing, while the fruit men are only bringing the thing, while the fruit men are only bringing the
final, finished product. Fruit men are about on a par with a hog-raiser who should exhibit sausages. The sausages might be most excellent, be desired mere consumer mige alt that could be desired, yet they wouldn't be as instructive to
the man who wanted to learn as the live animals. But while we fruit men may be handicapped, I think we are like most other people in most situations, we don't do, as well as we might, nor even as well as we know how very oten, and it is in
the hope of helping somewhat to improve fruit exhibitions that this article is undertaken. The first requisite, of course, is good fruit, shall grown and well colored, but with that we shall not concern ourselves, but assume that the ing his crop to assure fine fruit. Having done this, a great many exhibitors make serious mistakes in the time and manner in which fruit is
selected. Fruit should be fully matured and well colored before it is gathered, but avoid overripe specimens too. The "golden mean" is extremely important just here ; and by all means select the
fruit in the orchard. No man can make fruit in the orchard. No man can make a proper
selection of exhibition fruit digging about in barrel or a basket for his specimens, nor even (in the writer's opinion) from the packing table, though this is much better. I believe that fruit from the tree ; and with apples and pears, one o the long-handled "pickers" will be found invaluable, as the best specimens usually grow out of reach; and don't be satisfied with anything short of perfection. scar or scab or wormhole when the fruit was hanging on the tree, that the judge will not see it when he comes to examine the fruit on
the plates. There will be enough blemishes the plates. There will be enough blemishes creep
in if you aim at perfection. Then handle the fruit carefully-very carefully ! Any fruit which has a bloom on it naturally ought still to have that bloom on it when the judge gives his decision on it; and the longer
fruit must stand on the tables, the more important does careful handling become. An excellent way is to take ordinary grape haskets to the orchard or vineyard, and lay the fruit directly in-
to these as it is picked, and then take it to to these as it is picked, and then take it to the
packing-house to cool and be packed later on handlingatter of careful selection and careful handling cannot be emphasized too strongly, for realize on how small a point a the decision can times turns. of fruit. If the prize-list calls for five apples to of fruit. If the prize-list calls for five apples to
which later on to choose the final sample which shall represent your judgment in the competition.
Many an exhibitor has been disappointed when he Many an exhibitor has been disappointed when he came to put out his fruit and has lost the prize,
because some little blemish escaped his notice when the fruit was packed, or has developed since, and he hasn't an extra fruit to take the place of the damaged one.
In putting
In putting fruits up in acids, as must some-
times be done with early, perishable stuff needs experince to be sure of success ; yet a few rules, carefully observed, will usuccess, yet a few
results. It is a big subject by itself, and I shall results. It is a big subject by itself, and I shall
only attempt a few brief suggestions here. My only attempt a few brief suggestions here. My
general remarks as to the selection of fruits will apply with special force here. Choose fully-matured, highly-colored, ripe specimens, perfect in
every respect, but not overripe. Handle by the every respect, but not overripe. Handle by the
stem, if possible, and place directly in the jars in stem, if possible, and place directly in the jars in
which they are to be preserved, which ought to be clear white glass, not greenish, as this latter prevents the colors of the fruits from showing in their natural tints. Arrange the fruits carefully in the jars, so that they make the best appear-
ance, and then put the jars away, either in a refrigerator or some other very cool place, until they are well cooled down; then pour over the liquid and seal. For a presérving liquid various chemicals are recommended, but in the writer's
experience and observation, nothing is better than experience and observation, nothing is better than
a $2 \%$ solution of boric or boracic, dissolved in water. The percentage, of course, is figured on In taking fresh fruit to the place of exhibition, I have found barrels for the larger fruits and baskets for the smaller ones to be the most satisfactory method where shipment is made by train. Apples and pears should be packed with layers of
excelsior, and the more tender fruits with cotton
batting.
We come next to the question of putting up
the exhibit. In the ordinary single-plate entries the exhibit. In the ordinary single-plate entries
there is no chance for the display of artistic ability in arranging them, but there is a chance for a good deal of judgment in choosing out of the ten fruits brought to the show room the five (if
it be pears or apples) which shall stand the best
 will depend somewhat on the judge, for different men have different ideas as to what constitutes excellence in fruit, but, in general. the points whether typical for the variety or not ; color, freedom from blemishes, and uniformity. The latter point is, perhaps, more often overlooked than any other, yet, in my opinion, it is one of the
most important. A plate of apples, even though they may not be of the largest size nor of the highest color, if they are perfectly uniform in every way, color, size, shape and even ripeness, is
very attractive. very attractive.
might be called display or advertising exhibits, be cause that is quite a different matter from ordinary fruit exhibits, and' one which would interest ot five readers of "The Farmer's Advocate." ing varieties-that is, having a number of platem
other , variety-is more effective than almost any I said in the beginning that I did not think they ought to be. May I suggest in closing a few ways in which it seems to, me they might be improved in this respect. One of the most important deficiencies is poor labelling. If a visitor wants to know what he is looking at. Doubtless there are many to whom an apple is an apple, and if it is big and red, that is all which is required
to excite their unbounded admiration. But the man who is going to get any lasting good from the fruit show wants to know whether heod is look ing at Wolfe River or Alexander, or a small red pumpkin, and he may have to depend on the labels
for that information; consequently, the labels for that information; consequently, the labels there should be no question where one variety end and another begins
Secondly, I believe that greater prominence
should be given to collections of fruits-the should be given to collections of fruits-that is,
to commercial sorts. There is nothing more in tructive, not only to the intending planter, bu to the outsider (or insider) who is studying the ruit industry of any locality, than these collecvarieties.
Thirdly ${ }_{\text {r }}$-the commercial side in another way hould be brought into prominence, by offering good prizes for "fruit packed for export" in all And ${ }^{2}$ lastly, I should like to see an opportunity given for the judge to discuss with the exhibitors his reasons for deciding as he has done. I am sure, from my experience as a judge, that if the
exhibitors could go over the different plates as carefully as the judge does, they would very much oftener agree with his decisions. It so often happens that the plate of large, finely-colored apples, which at first sight would be easily en
titled to first place, is found on more careful ex amination to have a big spot of "scab" or a wormhole, or some other defect, neatly concealed
from the casual observer.
F. C. SEARS.

## APIARY

Only the Bees Themselves Can Ripen Honey Properly.

## Annually we are impelled

the unwisdom of extracting frames of comb before they are capped. Following is a sensibl
argument on this subject by Alpine McGregor, of Co., Ont., in Gleanings in Bee Cultur
"King" in Canada well when D. A. Jones wa extracting before the combs were capped, and ripening the honey in tanks holding about 375 quainted, and I think I may say the majority ac Canada, followed this plan. The result was that the honey market for years was such that it was
more difficult to sell the honey than to produce it. Many went out of the business; and those who remained, the writer among the number, de-
creased their stock. in point.
A man, less than two miles from here, about twen. Being short of ripening-tanks les. per colinto cans too soon; and the consequence was that every pound fermented, bulged out the cans, and
forced itself out at the top. It was all sold within twelve miles from here, and I need not enlarge on the effe
I will not say that good, thick honey cannot be produced by artificial ripening, provided there is plenty of ripening-tank capacity and the weather
is hot and dry; but take any one of the last three summers-last summer especially-when almost
every second day there was rain, a damp atmosevery second day there was rain, a damp atmos one say that honey could be properly,
such an atmosphere and at such a temp
About twenty years ago the writer was present at a convention in the City Hall, Toronto. The
Rev. L. L. Langstroth, Mr. A. I. Root, Prof Cook, Mr. D. A. Jones, and many other prominent were there. In the course of a discussion, Prof. of a fifteenth-century Calvinist, that dogmatism tracted before it is sealed and artificially ripened is just as good as that fully ripened in the hive.
He had tested it-with some of his students, I think he said-and they could not tell any differ-
ence. He further stated that we could not afford ence. He further stated the time to let the honey ripen inside the hive. Me time to let the honey ripen inside the hive.
Mr. A. I. Root took the opposite view, and maintained that honey which is fully capped tefore extracting is superior-a position which I believe is ondorsed Ey nine-tenths of the beekeepers throughRight here I may say that I do not consider
an extracted-honey producer fully prepared for his as we did not have our first frost so early, they cer an extracted-honey producer fully prepared for his as we did not have our first frost so early, they cer
business unless he has three supers for each colony tainly gathered a rich "larder." I had nothing to of drawn combs. Thus equipped we can afford ripened in the allow our honey to become fully method shall not presume to question the Alexande cially buckwheat hong honey in his locality, espe posing it in large tanks for a week or so would amprove it, as it might dissipate some of the tem revived and reintroduced through the medium of Gleanings.

## Wintering Bees

time may sedem a little premature to bring up at this in winter, writes Grant Stanley, in American Bee Journal, but I believe that just now is the proper time to
discuss it. If we wait until frost has cut of every discuss it. If we wait until frost has cut of every
vestige of bloom it is entirely too late to say much about it, as by this time cool weather is in evidence and robbing will be started with a very small amount cised. It is of as much importance that ware is exercised. It is of as much importance that we look into
the question of well-sealed stores for winter somewhat in advance of their needs, as it is for the householder to see that he has sufficient fuel provided for the winrepose, and as many beekeepers
the proceeds from the bees, is
with our bees? We would not think much of a man Who would not supply fuel somewhat in advance of his bees, the matter takes on an entirely different of our with too many beekeepers. It is a poor way of living, either with man or bees, to live "from hand to mouth." The fall of the year is the "harvest time," in
which all humanity "lay in", for the coming year, and thich all humanity "lay in" for the coming year, and what they have struggled hard to bring, home. It has from the rigors of winter from an insufficient quantity of well-sealed stores, than from other causes combined,
even including the dreaded diseases even including the dreaded diseases of black and foul
hrood ; and the sulphur pit may also be tncluded. If
we will but watch the bee papers closely each spring. we will but watch the bee papers closely each spring, "go over" on account of a scant supply of stores ; and
then when we take into consideration that only about
one beekeeper in ten read no beekeeper in ten reads the papers in this country,
how many hundreds of colonies perish, the reports of which never reach the press. This and other causes
$\qquad$ There is a large class of beekecpers who will not
feed their bees in the fall, even if they know they have an insufficient supply for the winter, preferring to trust hame men do in all business, to "" luck," and the cently Warm for inspection. If the winter in this case
turns out severe, and the bees run out of stores and die, it is, of course, termed "bad luck." Such beo
keepers as this would benefit the industry and themseives far more if they would stay out of it his bees toil all summer, and anekeper who will have
gain, take honey from them so gain, take honey from them so close in the fall that
they have an insufficient amount for winter is a class of beekeepers that desire to have their bees
so well supplied with stures at the approach of winter hat no uneasiness need be felt until warm weather has that he need not "jockey" his bees in spring with daily apppications of syrup to get them up for the honey-
flow. To tamper with bees early in spring results in
far more harm than I have put a great deal of thought into this sub-
ject, as I want my bees to have plenty of well-ripened stores of the same quality I take myself. With the invention of the modern hive, some of them with shallow
brood-chambers, compe) the bees to store all honey gathered above the frames, or in the sections, and this
is just where we want it during all the honey-flow ; but
if the sections are allowed to remain on the hives until Irost, there is sure to be a small amount of honey stored
in the brood-chamber for winter-possibly an inch two below the top-bars. I use those shallow frames,
for I believe they possess many points of merit not
found in oher Taving plenty of well-sealed stores at the approach of
winter, and not feed them, caused me no small thought as ferding is a mussy job, to make the best of it, and
always attended with more or less risk. 1 would discourace it as far as possible, especially with the beany chance whatever on the bees not having plenty of
stores. But where plenty of stores can be secured from nearly as sulable as light honey, yet equally good for from the bucs, buy sugar, and take the risk and labor

 as anything. Never mind if the feelings of the

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to the crate. I have seen women very indignant
because their chickens were dusted the same others. for a day and then commence gradually, feeding less than they will eat clean. After two or three
days they can be fed all they will eat up twice a days they can be fed all they will eat up twice a
day. Never leave anything in the trough to sour. In reference to the feed no hard-and-fast rules can ke laid down. It must be borne in mind that it is not fat but flesh that is required, and in order must be given. Two more conditions will fovern must be given. Two rnore conditions will govern
the food fed-palatability and' price. Birds will not make flesh if fed feed they do not like, or if tle salt. Mixed grains are the more palatable. or, at least, birds do not tire of a mixture as quickly as they do of a single grain. The price
of the various grains composing the mixture must of the various grains composing the mixture must
always be taken into consideration. In short,
3 the cheapest, palatable, flesh-forming mixture is with buttermilk or skim milk so much the better ;
if water is used, some animal food will be advisable. This may be conveniently given in the form of blood meal, about one part of the meal to 16 supplied. So much has been said about the crates and preparing for market that it is getting old; still, if one takes the trouble to observe in what
condition much of the poultry is marketed would be evident that there was something to learn by some even yet. Bulletin No. 7, issued by the Poultry Division, Ottawa, contains very full information along these lines, and can be had
for the asking. Though an old box will answer very well to fatten a few birds in, a few good crates are easily made, and will be found cheaper in the long run. Be sure the chicks are thoroughyowels, as well as the crop, are empty.
In marketing, I believe the sooner we co-operate the better. Form a poultry co-operative cir cle, and have from 10 to 50 , or those who are
convenient, ship together. If possible, let one convenient, ship together. If possible, let on
man do the killing and packing, produce a good article, and put it unto the market in the bestknown condition, and see that there is uniformity
in every package. There is always a nood dein every package. There is always a good de
mand for a fat, well-dressed chick, and for car loads of the same chickens if they are uniform. Macdonald College, St. Anne de Bellevue, Que.

## Fattening Chickens.

We receive a number of inquiries as to how R. Graham birds that are being fattened," says W. in his 1905 annual report. "' Most inquirers wish the exact amounts fed beginning-a very important point-and the amount was gradually increased until such times as the birds refused to eat all that was given than ten minutes after it was placed in the trough. Any food left after such time was removed.
v. Wh

Whether it is better to fatten birds in crates or pens depends largely upon surrounding condi-
tions, and upon who is feeding the birds. We have had, during the last six years, plenty of opportunities of testing many feeders, and, from careul observation, I think more do better work with ates than when feeding birds in pens.

NOTES ON THE EXPERIMENTS is, " Sour skim milk, i.e., milk that is thickent, the best liguid to mix with grain rations where a uniform product is wanted, and more so where white-fleshed chickens are in " Sweet skim milk has not a feeding value for
grown chickens equal to sour milk. "Whey is a better food than is generally con-
sidered. The results appear to indicate that it sidered.
aids digestion.
1 ". Whey and pork scrap have not given the re-
sults expected, and I would not recommend this "Where pork scrap and beef scrap can be procured at reasonable cost, say two cents or less per
pound, they are good value, especially where a yellowish flesh is in demand. not economical considering this test.'

Ducks are best killed hy cutting into the base of
the brain at the roof of the mouth. Before killing. the the brain at the roof of the mouth. Before killing, the
feet of the bird should be caught in a loop, and the latter fastened to a nail, with head hanging down-
wards. The picking. which should commence immediatels after killing, requires to be carefully done, so
to prevent injury to the carcass. Duck-raising is ca ried on extensively by many breeders, principally in
the United States.-A. G. Gilbert.

## Vermicide and Germicide.

$\qquad$ Ma nager, Experimental Farm, Ottawa, in his recently
published bulletin agement of poultry. The following, he general man-
foung found effective: Corrosive sublimate, 4 ounces; common salt, 4 ounces; dissolve in two to four quarts of
water. When completely dissolved, dilute to 25 lons. With this carefully spray every crevice, nook
and corner of the house. As the solution in
pois. and corner of the house. As the solution is highly
poisonous, care should be observed in handling it
Follow by Follow by whitewashing the premises. Before re-
turning the fowls to the poultry-house, see that the turning the fowls to the poultry-house, see that they
are entirely free from vermin. Insect powder dusted
about the head about the heads, on the backs and shanks, and under


## THE FARM BULLETIN.

## Cool-curing Cheese

Prof. J. A. Ruddick, about one hundred commissioner prominent in the interests of the cheese trade in East discuss three matters of interest to the trade 17th, 10 the grading of chese, the appointment of an officlal tories. Among ethers prent of cool curing in the fac and Secretary Murnh present were President Derbyshire Racine, M.P.P. of Casselman : Edward Association; A J. A. Putnam, Superintendent of Farmers' Institutes Barr, Instructor for Western Ontario, and G. G. Publow,
of Eastern Ontario. Mr. Ruddick in
Mr. Ruddick, in his address, stated that the cool-
curing rooms at Woodstock, Ont.; Brockville, Ont., and Cowansville, Que., would tot be operated by the Gov ernment after this year. He said that if he had to
build the rooms again the only change build the rooms again the only change he would make, pensive, as the insulation in the present ones was little better than reallyy necessary. He thought the obJect for which the rooms had been erected had been accomplished, as it had been plainly demonstrated that to the emperature should never go above 60 degrees. The saving in shrinkage during the time the cheese are in he cool-curing room was from $1 \frac{1}{2}$ to $1 \frac{1}{i}$ per cent. There have not been so many cool-curing rooms
erected by factory owners. in Eastern Ontario as there erected by factory owners in Eastern Ontario as there
are in Western and Central Ontario. Mr. Ruddick stated, in his opinion, the reason why there were not more cool-curing rooms put up by the factory men was that where the factory is owned by a private indi-
vidual, the cost of improvement is usually borne by the proprietor, and he does not get any returns from the effect of cool-curing. He thought that patrons should bear some of the expense of improving the curing rooms. The delegates present were of the unanimous
opinion that a cool-curing room was the proper thing. In regard to the appointment of an offcial referee at M ontreal, Mr. Ruddick made the statement: If a referee is appointed, he will not examine any cheese or butter Thless requested to do so by both seller and buyer. This arrangement seemed to meet with the approval of
most of the delegates present. A number expressed themselves as opposed to a referee if his work was upon the same lines as were adopted in 1905 .

In regard to the question of having three grades of
cheese as formerly, there was a difference of opinion several of the delegates thought the standard for No. grade was too high. There was not much opposition
to the suggestion of Mr. Ruddick, that the referee use hree grades when examining cheese. A number of those present thought that the work of the referee should be along educational lines, with a view to improvine hetweyty or to chan

## Farmers' Institute Convention at Toronto

 Exhibition.In accordance with the expressed wish of the Farmers' Institute convention, at the Toronto Exhibition of 1905, provision has been made for a similar gathering
this year, on the 5th and 6th of September. It will e held at the special tent of the Ontario Departmen of Agriculture, on the exhibition grounds. It has been thought well to announce a few topics to be dealt with or the discussion of such subjects as may be suggested by those present.

## PROGRAMME.

Kednesday, Sept. 5th.
2.00 Chairman, Hon. Nelson Monteith
2.00 p.m.- Coll call. 2.15 p.m.-Chairman's address.
$2.45 \mathrm{p} . \mathrm{m}$.-Report of the year's work, and plane for the coming series of meotings, includin special features of work.
Farmers' Institute Clubs-Their work and Farmers' Institute Clubs-Their work and
relation to co-operation in purchasing production, and marketing
$4.0 \delta^{\text {p }}$ p.m. -General discussion,
$0.00 \mathrm{a} . \mathrm{m}$.-The encouragement of special lines of agri culture for various sections of the Prov ince
the weed problem-Present legialation, and
the enforcement of the same ; desirable amendments.
1.30 a.m.-Advertising of meetings; charges for supple $2.00 \mathrm{p} . \mathrm{m}$-- moll call mand paying
$2.30 \mathrm{p} . \mathrm{m}$.-Expenditure of surplus delegates expensee 3.00 p.m. - the offcers should plan for and carry out. In Mural diocussion.
In addition to the topics mentioned above, there are a number of questions of general interest to Inethcated by "general discussion." Offcers of Institute and delegates are requested to submit additional toptcs, or later than Sept. 1st, which they would recommend GEO. A. PUTNAM
Superintendent of Farmers'
Institutes for

## Protection of Railway Crossings.

Union of Canadian Municipalities, held at Hatifax, the S., a resolution was passed, to the effect that, in the opinion of the Union, when gates, subways or elevated
tracks are required for the protection the intersection of tracks and highways, the coat of the same should be borne by the rallway companies clusively : and, further, that no level crossings should and that the Exxecutive urge this matter antod districts, and that the Exxecutive urge this matter on the atton-
tion of the public authorities.


Golden Carol $=58704$

Western Crop Estimates Modified.
Intelligent agricultural opinion in the Canadian West has been protesting against the dissemination of exag.
gerated predictions of crop yield, calculated to hear pricees and thus adversely affect the farmers' intereste Recoent forecasts place the average yield at slightly under twenty bushels per acre, thus considerably dis counting the estimate of $100,000,000$ bushels ventured by Premier Roblin, of Manitoba. The Northwest Graindealers' Association, in their first circular this soason, place the average wheat yield at 19.4 bushels, and cast up an aggregate of a ilttle better than $77,000,000$ bushels. Oats they estimate at 41.2 bushels per acre, mul
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Of barley they count on $16,980,600$ bushels, and of fax, 690,184 bushels.
The Winnipeg Branch of the Bank of Commerce places the total wheat yreld at $91,813,9000$ bushers ; oats, 54, ,680 bushells, and barley $17,735,790$ bushel
Herveet conditions have been excellent, end as proceeded rapidly. Hot weather has caused con has proceeded rapialy. Hot weather has caused con
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splendid.
To pplendid. To garner it some 12,000 or 13,000 harto to the end of last woek, with another excursion this week, deteils concerning which are not to hand at dato of writing. The draft is making a heavy drain of the repeatedly-reduced brawn of Eastern Canada, but the annual migration has its advantages, not the least on
which is that the migrants are finding opportunity in our own country rather than abroad. At any rate we must make the best of it, pardonably trusting to tcipate in the national prosperity that will fio

Co-operative Fruit Associations Organize
A large and representative meting of the various
co-pprative fruit-growers 'associations of Ontario was organization was formed. The meeting was called as result of considerable correspondence on the need for uch an organization. The associations represented a the meeting were those of Forest, Chatham, Simcoe
Oakville, St. Catharines,
Parkhill, Oshawa, Newastle Trenton, Meaford and Walkerton; from each of these one or more representatives were present. Several othe essociations sent word they would give their
to the movement contemplated by the meeting.
the movement contemplated by the meeting
The name of the newly-formed organization
The Ontario. Co-operative Fruit-growers' Association. The following offlcers were elected : Preside Sherrington, Walkerton ; First Vice-President, D. John Trenton. Third Vice-President, Robt Thomson, St. Catharines, and Secretary-Treasurer, A. B. Cutting, 50 Manning Chambers, Torouto
The object of the association is of a wholly com mercial nature, and is designea forit crop throughou Canada, the United States and Europe. It will assist the various local associations to market therir fult io
the best possible advantage, by bringing them into ers, and by disseminating reliable information regard ing fruit crops and sales. It will aid the local asso-
iations to procure satistactory accommodation for the storage and shipping of their fruit. The provincial association will take steps to bring about more unitorm grades in the pack of the fruit of
he Province. Already the Fruit Division at ottawa has been asked to provide that the local co-operative associations be specially inspected and specially pro-
tected. It has been requested that a fruit inspector call at intervale throughout the packing season at the various co-operative fruit houses, so as to guarantee a
high standard in the pack of the association. The Fruit Division has been petitioned also to hold meetings in the various co-operative localities, to demon-
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Reports gathered from the representatives present at the meeting were, genorally speaking, of an encouraging
nature. while the apple crop is regarded as a good nature. Wesilution was unanimously endorsed, call
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upon the members and growers generally to oxercise gerve in disposing of their stock. The opinion freely expres.
dian apples.
The membership in the provincial association shal be confined to the local co-operative fruit-growers' asso ciations of Ontario, whop have charree of the gradiuct
 one representative to act as a director of the provin-
cial association. The membership fee shall be $\$ 5.00$ al
and year. In case it be required to meet vurther ond loya
tions of the provincial association, $a$ very small lovy tion barrel will be made oir the diferent affliated asso per barr.
ciations.
At the close of the meeting a number of leading buyers, including some from Great Britioin, met
growers and discussed matters pertaining torop promer
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mitial meeting, is an indication of its members at the initial meeting, is an in the something doing in the

Nove Scotic Crops.
Wool and Wool Prices in Britain.
rop bulletin the Nova Scotia De pertment of Agriculture summarizes as follows the re spondents in the most important agricultural district of the Province
The fall of 1905 was unusually dry This was suc coeded by an open winter, and by a rather slow, cold spring. As a result of all these conditions, the crop returns are extremely variable. For the most part,
wherever the soil was in fairly good condition plenever the soil was in fairly good condition and the
plant healthy and vigorous, the reports are favorable. But where fields have been neglected for $a$ aumber of years, the grass roots especially did not seem to have the vitality to withstand the conditions, and, as a re-
sult, reports are not ao tavorable. Seldom have we experienced such a backward spring, as a consequence of which little seeding was done until June, and in many sections fields were not seeded until the end of hat month. Following the wet month of May, June
brought in very dry weather, and it looked, for a time as if crops would generally prove a failure. However. during the latter part of June and the month of July, We have had lots of rain and heat, and the growth has been unprecodedect. At present opinions as to crops crop for the whole Province may be estimated at about 85 per cent. Oats and other grains will be about a
90 -per-cent. crop. Roots will be fully up to average. 90-per-cent. crop. Roots will be fully up to average.
In regard to fruit, opinions too are variable; but it is In regard to fruit, opinions too are variable; but it is
generally anticipated that the crop will be above the average. Every correspondent reports the season to be
orm ten days to three weeks late.

## The King's Horses at Toronto

 The coming of the King's horses, and those of LordRothschild, to Canada, for exhibition at the Canadian
Nationa National Exhibition, has created considerable stir among
horse-owners, breeders, etc., all over the country. As a sult, the owners and breeders of different types and majestic mettle, for these horses are both magnifcently Cheso horses, all Shires, five belonging to His Majesty and the other five to Lord Rothschild. They include
wo stallions. one Girton Chomer England; and the other, Premvictor, has won seve frrsts, three championships, two reserves, and a number
of other prizes. In short, theso two maiestic animals of other prizes. In short, theso two majestic animals
are, undoubtedly, grand champions of champions. There re, undoubtedly, grand champions of champions. Ther
is also a magnificent mare with filly foal, one of Baron Rothschild's, that has never been beaten in the showring, and is accounted the best bred and purest type
of her class. An extra beautiful filly is Tacsonia, by the King's stallion, Calwich Blend. She has never been considered a Queen of the Shires. There are two yearlings, quite as big as any two-year-olds of any species
of horses, and two grandly-built geldings. In all, thes of horses, and two grandly-built geldingse In all, these
horses are supposed to represent a value of twenty

## The Crops in Quebec

## the Province of Quebec, issued by the Provine crial Dens

 ment of A.sriculture, states that, according to informa-tion reecived from diferent countles, the average croo in the various branches of farming carried on in im the
Province. will pronably fall Province, will probably fall short of the average of
past evers. Lack of snow in the past winter, leaving the fields and pastures bare, has has a considerablo of-
tet on this branch of cultivation the prolongrad period
of cold weathe operations, while the unusual dryness of the summer explains the probable diminution in the returns of According to figures of the Quebec Observatory, the
total rainfall for the months of June and Julv, was total rainfall for the months of June and July was
4.54 inches. as compared with 8.07 inches, which is given as the average for the past forty yearse In July
the rainfall was only 1.74 inches, the average for the

Formal Acceptance of Rittenhouse Gift On August 14 th, in Victoria Hall. near Vineland,
Ont... Hon. Nelson Montert, minister of Agriculture for
Ontario, formally accepted the land donated by M. F. Rittenhouse, of Chicago, for the purpose of an experi-
mental fruit farm. Several thousand people were pres-


 tenhouse ns a man who had accepted the responsiblity
that wealth cast ulpon him, and said he knew of till

 the Niacsa
drouth.

## IMPORTS OF RAW WOOL INTO GREAT britain

 .From the Trade and Navigation Returns, I have ob-ained the following figures, showing the quantity and value for periods stated: quantity and $\begin{array}{cccc} & 1903 . & 1904 . & 1905 . \\ \text { Pounds } \ldots \ldots \ldots . & 599,500,932 & 561,677,833 & 615,708,727\end{array}$ $\begin{array}{lll}599,500,932 & 561,677,833 & 615,708,727 \\ £ 20,622,523 & £ 20,366,030 & £ 23,821,350\end{array}$

Fair Dates for 1906.



 Western Fair, London ….........
Michigan Weest," Grand Rapids Sussex, N. B. ...................... Guelph Central
$\qquad$
Mount Forest ..........
Peel CCo., Brampton $\qquad$ South Ontario, Oshaws ……...............................ept. 20-21 Dominion Exhibition, Halifax, N. S...Sept. 20-Oet. 5 Exhibition
 American Royal, Kansas City, Mo. ...............Oct. a-18 International, Chicago ........................................... 1-s Ontario Winter Fair, Guelph ................................. $10-15$
Caledonla Managers of fairs whose dates do not appear on our
list will confor a favor on our readers by sending in

## Western Fair Dairy Prizes.



Notes from Ireland. Irish crop prospects are bright. As I write, I have
before me a cheering series of reports by practical farmers, and thoroughly representative of the country. The
picture which these reports present is ar aging than could have been reasonably anticipated some months ago. There have been other years, no doubt,
in which some crops may have been more favorably spoken of, but, taken all in all, there has seldom been such a uniformly satisfactory promise. Of no crop is
the general condition represented as materially under the average, while the great majority mare described as
well up to, and, in many cases, well above well up to, and, in many cases, well above. The sea-
son, from a climatic standpoint, has been a somewhat peculiar one. The spring was unseasonably cold, and,
consequently, backward until June. With the adyent consequently, backward until June. With the addent of
genial weather, then the appearance of the country under-
went a marked improvement went a marked improvement, which has continued right
along. Of meadows and pastures, which occupy the
d the hay bulk of our land, most pleasing reports are given; in the majority of cases, heavy and nutritive. Pastures
also have been well covered, and grazing stock have, been amply supplied. An amount of hay has still to be
cut, and if fine weather prevails for the work, a good oats have, in some of the northern districts, been re-
tarded by the absence of heat in spring, and are, contarded by the absence of heat in spring, and are, con-
sequently, not filling weil, but in other parts of the
country the crop is bulking most satisfactorily and hur staple grain crop promises a full averace yield ; wheat
and barley, which are not so extensively are both expected to turn out better than last year.
Potatoes have been comparatively free from blight and disease, and there are indications of luxuriant growth
and abundant yield of this most important crop. Turnips are the most variable of all, and appear to be bet-
ter in the South than the North, but there are very few unsatisfactory reports of the mangel crop, which,
as a rule, looks healthy; and of flax, which is princi as a rule, looks healthy; and of flax, which is princi-
pally confined to the northern counties, the reports
leave little cause for complaint. Compulsory sheep dipping. During the past few years many public men inte..-
ested in the sheep industry have pleaded for the a, option of a measure in Ireland under which every farmer
would be compelled to dip his sheep. It would seem
that the day is not far distant when the desire with become realized. Though coercive measures, as a rule,
do not appeal to the average Irish mind, still there are some matters in which compulsion is advisable, and, in-
deed, in which resort to it is fraught with advantages to admit. It must not be supposed that all Irish flock-
masters neglect the washing of their sheep, for such is by no means the case, but the dififculty is that quite
a number neglect to do so, and the inevitable conse-
quence is that sheep scab and other parasitic troubles quence is that sheep scab and other parasitic troubles
continue prevalent throughout the country, and this,
notwithstanding the frequent pleas that these diseases could be exterminated (as they have been in Australia
and elsewhere) by approved systems of dipping.










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## dre ove cro

pathetic attitude of the latter towards the development
of the agricultural resources of the Island. Indeed, so
acute of the agricultural resources of the Island. Indeed, so
accute has the question become that, as I formerly
pointed out, there are some among us who contend that until an improved state of affairs is brought about with regard to railway rates, etc., it is a hopeless task to
try to revive and develop to the fullest extent the industries of the country. Instead of leading and further-
ing in every way the ing in every way the advancement of agriculture-as
their own business instincts alone might have induced them to do-the railwayctompanies, mis a rule, in Ireland
have, it is the be feared, played and while our foreign competitors have had the advantage of rapid, cheap and safe transit, we have been
greatly handicapped by unreasonably ly high rates, and not always the and, indeed, fatalrailway facilities. The matter has forced itself into
special promin. its vital prominence, which may be taken as indicative of Quite recently an influential deputation waited on a convarious details of the matters in and discussed the ently without any definite result. Hardly had the
echoes of the meeting died away, however echoes of the meeting died away, however, than the
announcement came last week of the appointment
Vicarecal Iice-regal Commission to enquire into the working of
Irish railways generally. The terms of refercicel comprehensive, and indicate that the inguiry will be
both wide and practical in its scope. They red I. To inquire into the present working of railways in far they aford adequate facilities for the cheap and rapid transit of qoods and passengers within the Island
and to (ireat Britain ; what causes have retarded the expansion of traffic upon the Irish lines, and their full industrial rosources of the country ; and, generally, by working of the Irish railways can best be secured." Assuming that the britable industry.
possesses an interest for farmers all classes of animals place to mention a branch of breeding which is proving
distinctly remunerative to distinctly remunerative to a certain restricted class in Ireand, but which, unfortunately, from its nature does the breeding of lions, which is carried on with wonder-
ful sucess by the Royal Zoological Society of Ireland, it their picturesque, instructive and popular gardens in Zoological Gardens last week, on a spare afternoon, I learneतt that lions bred in the Gardens are in great
demand, and enjoy much popularity in different parts of the world. Since commencing to breed them the of ciety has exported quite a large number. Only last
week a lioness was despatched to Scotland, and a still a third recent deal with the society has been ransacted by the proprietors of an English travellina menagerie, and specimens have also been sent to Ger-
many, America and Burmah. Needless to say, the
competition in this particular business is not keen, and consequently, prices are pretty much as the sellers care

## P. E. Island.

e has been no rain of any consequence for
arge percentag been saved in the best condition. A make excellent stock food. It was no trouble and will A very large percentage of the wheat crop along the north side of the Island has been destroyed by the
joint-worm; some of it is being cut down for hay, but a great deal of it is so short as to be useless even for
that. There was a little of this trouble in this section last year on a few farms, but this year it has become general, and has utterly destroyed the crop in many
cases. The later sown wheat seems to have suffered most. Where this pest has been so bad this year,
many farmers will not attempt to grow wheat next year, but will wait for a year or two, in hopes that
the insect that causes it may pass. the insect that causes it may pass. It is causing great
loss this year, as the wheat is always sown on the very best land. The oat crop is light in the straw for weather, we fear the grain will alling be light. hot the
root crop is doing well, and will likely come the root crop is doing well, and will likely come up to the
average.
Potatoes have missed to a great extent. We average. Potatoes have missed to a great extent. We
think the principal cause has been lack of vitality in
the seed, which was too weak to germinate in the unfavorable conditions caused by our extremely cold spring
season. Where good, strong, sound seed was planted season. Where good, strong, sound seed was planted
at a proper depth, about three inches, it has grown well. Ne never saw potato bugs so plentiful here be-
wore, and it has required a lot of Paris green to keep them down. Pastures are getting pretty dry. After-
\&rass is not making much growth, and the stockman who has plenty of green feed to supplement the pas-
tures is the only one who will rejoice in full milk pails / The dairy business is coming up again. Two years '1 good prices are encouraging many who were getting
careless about milking stock to take more interest in
wo years.
We enjoyed a very pleasant call from a representaive of the old-reliable "'Farmer's Advocate" a shor time ago, and were pleased to know that he was successful in placing that excellent journal in many farm Farmer's Advocato" is saying that wherever "Th will follow an improvament in agricultural methods. Too many of our farmers are yet without an agriculural paper, and so are missing much that would be
helpful to them in their business.

## Awake to the Chances at Home.

Editor "The Farmer's Advocate" :
As the son of a subscriber, I thought I would write few lines, which you may publish if you see fit. A dor in open to practical or benefcial sugges tetwe解 ${ }^{2}$ sons or daughters would be way would, I think among the young increase the number of subscribera n educational as well as a practical beneft.
Many farmers' sons in Ontario are leaving fair may find, and west to look for better, which some abandon the farm for which the lathy young men ong, and which has good buildings and home, for few acres on a wide and dreary prairie where there are neither, and there spend a good share of their lives dragging out an existence all alone. When they get of single life, they pick up all the farmers' daughcerta in go West, and there live a life which, to not be in every case, but it is iu a good many. Farm ers' daughters do nt et bachelors who are well off, for in some of the middle place the school is closed. No doubt if correspondence was encouraged it would be to their benefit and com , as well as that of others.
Then, again, when the farmers sons Wet oaves the farm without sufflient help, and the only work all the farm. It wages to hired help, or else not well afford to provide some inducements to help their sons at home, and thus work all the farm in the proper way, and to best advantage ; for when they are given than a hired man, and this also will willingly do more of the home. There are many farms in Ontario that could be worked to better advantage, and if one of the self, his father might give him a start, and the rest would work in all right. Here correspondence is a
benefit. beneit; for when one sees how others are making
success it encourages hi Farmers' daughters also might forth greater effort. day of progress, or with farmers' sons. This is the day of progress, so speak up and let people know you
are living.
YOUNG FARMER.

## Seed Selection Pays.

Many farmers of Fastern Ontario are giving considerable attention to experimental plots in hand selection of seed, and a large majority of them have achieved plot in George Boyce, of Nepean, has such a at the work for several seasons, and, as a result, has nearly 60 acres from improved seed. He has made a specialty of Banner oats. His oat fields this year gave Wo crops. Working in Red Fife wheat in a similar way, Robert
Patterson, of Northcote, near Renfrew, good results. He has a breeding plot of acre and an improved seed plot of 8 acres. Last year his field of 10 acres, sown with improved seed, yielded 25 bush-
els per acre. He had, according to the lest of ety, sufficient offers at $\$ 1.50$ per bushel for seed to sell
ity the whole crop. He refused to part with it for this purpose, in spite of the high price, because he had failed to treat the crop for smut, and thought it might be year have given every appearance of Hod plots this One of the finest breeding plots visited this year the official of the Seed Division is in the vicinity of fifth year Mr. McKay has been selecting Red This is the and his plot showed the results of careful attention, The heads a short time ago were well filled with plump grain of the highest quality. The mean length of heads
also was above the average. Among others of this part of the Province engaged in the work are: D. G. Thompson, Cumming's Bridge, experimenting with Compton's Early corn; Mr. Sissons,
of Dunrobin, experimenting with oats. Last year Mr,
Sissons' Sissons' improved seed plot of two acres yielded within

Western Crop Estimates Modified.
Intelligent agricultural opinion in the Canadian West has been protesting against the dissemination of exag grated predictions of crop yield, calculated to bear prices and thus adversely affect the farmers' interests under twenty bushels per acre, thus considerably dis counting the estimate of $100,000,000$ bushels ventured by Premier Roblin, of Manitoba. The Northwest Grain dealers' Association, in their first circular this season place the average wheat yield at 19.4 bushels, and cast up an aggregate of a little better than $77,000,000$ bush els. Oats they estimate at 41.2 bushels per acre, multiplied to a total of $75,725,600$ ot barley they cou
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## Co-operative Fruit Associations Organize

 held in Toronto on August 14th, and a Provincial
organization was formed. The meeting was called as Aresult or oonsiderable correspondence on the need for
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other or more representatives were present. Several outher to the movement contemplated by the meeting.

- The Ontario. Co-operative Fruit-growers Ast Asociation: The following oficers were elected: President.
Sherrington, Walkerton; First Vice-President. Bon, Forest : Second Vice- President, W. H. Dempsey Trenton; Third Vice-President, Robt. Thompson, St.
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this kind has been formed, and that leading buyers met this kind has been the inmitial meeting, is an indication of
its members at the something doing in the direction of progress in the

## Nova Scotia Crops.

artmes summer crop bulletin the Nova Scotia Do turns of something over a hundred reports of corre spondents in the most important agricultural districts the Province
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## The King's Horses at Toronto

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 National Exhibition, has created considerable stir among horse-owners, breders, etc., all over the country. As aresult, tho owners and breeders of different types are on their mettle, tor these horses are both magnificently majestic and substantially massive. There are ten of these horses, all Shires, five belonging to His Majesty,
and the other five to Lord Rothschild. They include two stallions, one Girton Charmer, the champion of all
England; and the other Premver firsts, three championer, Premvictor, has won seven
 ring, and is accounted the best bred and purest type of her class. An extra beautiful filly is Tarsonin. by
the Kings stallion, Calwich Blend. She has never been
beaten wher beaten wherever shown, and is really entitled to be
considered a Queen of the Shires. There are two yearlings, quite as big as any two-year-olds of any species
of horses, and two grandly-built geldings. In all, these horses are supposed to
thousand pounds sterling.

The Crops in Quebec


Wool and Wool Prices in Britain.
$\qquad$ spoke as follows of the wool situation: wool rea time in recent years has the price of raw England, end so high a level as it commands to-day in of high prices. Three years ago the price ranged froo 6 dd. to 8 dd., but at a sale recently held at the Salisthere was tair 105,000 Down flecees were offered, and there was a brisk demand. The prices realized averagod 1td. per ib. above last year's quotations. Washed lots
sold at 141 d . and 15 dat. unwashed lote Local wool, however, commands higher prices than the imported, and the price of latter is governed by its grading and the demand existing. The wool market
reports cumseribed to the most actual needs, the high pricead doterring buying for storage. The European markets showed a decline, but most of the wool offering was withdrawn when prices fell off Spinners and manufac-
turers claim that the present prices are more than the
imports of raw wool into great britain. From the Trade and Navigation Returns, I have ob-
tained the ofllowing figures, showing the quantity and 1903. 1904.1905.


## Fair Dates for 1906.



Western Fair Dairy Prizes.


Take in the Ottawa Fair
this year September 7 th to to 15 th. 1 . todation has been increased. and in prizes it it is accom-med
that the larkest tist of specials ever offered by this or
hny other any other exhibition will be sever orfered by this or conpetition
The managenint of this show is al alwavs the soul of courtesy, and the exhibition is a delichttrul and instruc
younc Canalian ought to see. Hall rates will obtain
yon the railronds, and we bespeak for this Fair the

THE FARMER'S ADVOCATE





quence, are doing a larger business than during the last We enjoyed a very pleasant call from a representative of the old-reliable "Farmer's Advocate" a short time ago, and were pleased to know that he was suc-
cessful in placing that excellent journal in many farm cessful in placing that excellent journal in many farm
homes. We feel safe in saying that wherever ." The Farmer's Advocate" is taken and carefully read there Farmer's Advocate" is taken and carefuly read there
will follow an improvement in agricultural methods. Too many of our farmers are yet without an agricultural paper, and so are missing much that would be
helpful to them in their business.

## Awake to the Chances at Home.

Editor "The Farmer's Advocate": few lines, which you may publish if you see fit. As your paper is open to practical or beneficial suggestions, I might say the encouragement of correpondence
between young farmers' sons or daughters Would be between young farmers' sons or daughters would be
beneficial. Correspondence carried on in a respectful way would, 1 think, increase the number of subscriber among the young farmers, as well as others, and be of an educational as well as a practical benefit.
Many farmers' sons in Ontario are leavin3f fair chances and going West to look for better, which some may find, and many may not. Many young men abandon the farm for which the father has worked so long, and which has good buildings and home, for a few acres on a wide and dreary prairie where there are neither, and there spend a good share of their lives ired tired of single life, they pick up all the farmers daugh-
ters who will go West, and there live a life which, to a certain extent is a a not be in every case, but it is in a good many. Farm ers' daughters do not yet have to go West to find and western counties bachelors are so thick that in one place the school is closed. No doubt if correspondence
was encouraged it would be to their benefit and comfort, as well as that of others. Then, again, when the farmers' sons go West it
leaves the farm without sufficient help, and the only road out is to pay big wages to hired help, or else not well afford to provide some inducements to help their sons at home, and thus work all the farm in the proper way, and to best advantage ; for when they are given
an interest in the work they will willingly do more an interest in the work they will willingly do more
than a hired man, and this also saves the breaking up of the home. There are many farms in Ontario that could be worked to better advantage, and if one of the sons who has worked at home wished to farm for him-
self, his father might give him a start, and the rest
$\qquad$ benefit; for when one sees how others are making a success it encourages him to put forth greater effort.
Farmers' daughters also might be benefited by their day of progress, so speak up and let people know you day of progress, so speak up and let people know you
are living.
Quebec.

## Seed Selection Pays.

Many farmers of Fastern Ontario are giving considerable attention to experimental plots in hand selection of seed, and a large majority of them have achieved good results. George Boyce, of Nepean, has such
plot in four acres of evenly-lying land. He has been at the work for several seasons, and, as a result, has nearly 60 acres from improved seed. He has made
specialty of Banner oats. His oat fields this year gave specialty of Banner oats. His oat fields this year gave
splendid promise of banner crops. Working in Red Fife wheat in a similar way, Rober alcerson, of Northcote, near Renfrew, has achleved an improved seed plot of 8 acres. Last year his field of 10 acres, sown with improved seed, yielded 25 bush
els per acre. He had, according to the best of authority, sufficient offers at $\$ 1.50$ per bushel for seed to sell
the whole crop. He refused to part with it for this the whole crop. He refused to part with it for this
purpose, in spite of the high price, because he had failed to treat the crop for smut, and thought it might be
the means of propagating the disease. His plots this year have given every appearance of good results. One of the finest breeding plots visited this year by
the official of the Seed Division is in the vicinity of Maxville, on the farm of Robert McKay. This is the and his plot showed the results of careful attention. The heads a short time ago were well filled with plump alto was above the average.
Among others of this part of the Prov A mong others of this part of the Province engaged
in work are D. G. Thompson, Cumming's Bridge,
experimenting with Compton's Early experimenting with Compton's Early corn ; Mr. Sissons,
of Dunrobin, experimenting with oats. Last year Mr. of Dunrobin, experimenting with oats. Last year Mr
Sissons' improved seed plot of two acres yielded within Sissons' improved seed plot of two acres yielded within

MARKETS.

## Toronto.

## ive stock

Reciipts of cattle were light, not more
than thalf the number of $a$ week ago. Uhan half the number of a week ago.
Trade in shippers is dull, owing to lack of space avallabob on ocoan steamers;
out choice huthers cattue being scarae were frmer at steady prices.
 per cwt. Export bulls sold at $\$ 3.50$ t
$\$ .25$

Butchers'-Prime lots sold at $\$ 4.40$
 medium
$\$ 3.25$.
s. Stockers and Feoders-Receipts ingt.
trade dull, with a light demand for


 common stockers, stockers, $\$ 2$ to $\$ 2.25$ cows and springers met Prices ranged from $\$ 35$ to $\$ 64$ each, one
doler dealer tuying nine springers
age of $\$ 51$ each.
Veal Calves-Recoipts moderate; market
Trices
steady at $\$ 3$ to $\$ 6$ peet armi; pricas steady at $\$ 3$ to $\$ 6$ per
cwt., the bulk selling at $\$ 4.50$ to $\$ 5.50$
 met a firm market, especially for expor sheep. Export ewese sold at $\$ 4.40$ to
$\$ 44.60$; bucks, $\$ 3.50$ to $\$ 3.75$ per cwt . $\$ 4.60$; bucks, 83.50 to $\$ 3.75$ per
lambs sotd at $\$ 8$ to $\$ 6.85$ per cwt. lambe sold at $\$ 8$ to
pulk going at $\$ 6.50$. light. prices are easier some been buyers having forsalken the market., or at least, are taking a holiday. Prices
are quoted as follows : $\$ 7$ per $\mathrm{cwt}$. , fee and waterod, and \$7.25, off cears. corning the horse market, as teport con
tewer sales reported are last week than ait any time during the year. More horses on the market that went home disap potnted. A few sales of work horses were made at unchanged prices.
COUNTRY PRODUCE Rutter-Demand
moderate
supplies Creamery prints, 23 c . to 24 c ; ; creamery
boxes. 22c. to 23 c . dairy pound rolls, boxes. 22c. to 23c.; idairy pound rolls.
19 c to 20c. ; tubs, 18c. to 19 c ; ; bakers
 easier, although there is no quo
change, at 18c. to 19c. per dozen. Potatoes-Prices are lower on account of heavy reciepts, ranging from 55 c . to 6sc. Toronto. Cheose-Market steady at 12
per 1b, the latter for twins. Poultry-Receipts moderate. Prices
Arm as oflows : spring chickens, dressed frm as follows: Spring chickens, dressed,
15 c . to 17 c . per 1 lb ; ducks, drossed, 13 c 15c. 160.
to 16 .
dessed. Hay-The market is firm at $\$ 10$ $\$ 10.50$ for car lots of No. 1 timothy, on
track, at Toronto; No. 2 at $\$ 7.50$ per ton. Straw-Market quiet $\$ 55$ to $\$ 6$ per Beans-There is not much doing in peans, and prices are practioally nominal
as they have been for some times; hand $\$ 1.60$ per bushel. Honey-Supplies light, prices steady at
10c. per lb. for strained, and $\$ 1.75$ to 20. por for combs.
breadstuffs eran-Wheat-Red and white winter ern, 79 c., offered at lake points; No. norn-No
Corne
Corn
Rye-New is quoted at 57 c . to 58 c . Peas-Prices nominal at 82 c. to 83 c Barley-No. 2, nominal, at 48 c .
Oats-No. 2 white quoted at 34c., outside, and 34 c.
Oc., at outside points.
soc., at outside points.
Flour-Manitobe paten

## THE CANADIAN BANK OF COMMERCE

Paid-up Capital, $\$ 10,000,000$. Reserve Fund, $\$ 4,500,000$ HEAD OFFICE, TORONTO
B. E. WALKER, General Manager $\qquad$ ALEX. LAIRD, Asst. Gen'l Manage
BRANCHES THROUGHOUT CANADA, AND IN THE UNITED STATES AND ENGLAND

## BANRING BY MAIL

Business may be transacted by mail with any branch of the Bank. Accounts may be opened, and deposits made or withdrawn by mail. Every attention is paid to out-of-town accounts

ances, being now 100,000 pkgs lee than or the orresponding period last yeal
ood to fine creamery, 22 tc. to 22 to

 straight-gathered, select. candled, 20 c . to
21c., and No. 2 stock, 13c. to 15 c .
 emporary. Deaters have pala farmers
soc. per 80 pound bag, and $\$ 2$ per bul: resold at $\$ 1.15$ and $\$ 1.25$, respectively
Tomatoes-Farmers in the vicinity
 niense crop of tomatoes. Although sh she
prieo of these is supposed to be 25 c . per
pushel
purchases have heen
 prices got down to the loweat, poont
touched in months, viz, $36 c$. to $38 c$., Hay-Stocks are lights, and farmers
Coo busy to bring in new hay. Prices
Com at $\$ 8.50$ to frm at $\$ 8.50$ for clover and clover-mix-
did. $\$ 9.50$ for No. 2 timothy, and $\$ 10.50$
it or No. 1. Demand good. ing in the flour market, and purchases of
Manitobas have been made lately at $\$ 4$ Mranitobas have been mor lately at $\$ 4$ $\$ 4.50$ for patents. Market for mona and
shorts excaptionally
frm.
Millers hey cannot get enough to fill onders, particularly in
and shorts,
821

## British Cattle Markets.



## cossip.

claimed, it will be noticed that the derton, and H. J. Davis, Woodstock,
have , been changed from Oct. 17th and

The success of an auction sale of purechattels, or other property, depends largely, in the first place, upon judicious arvertising in the publications that
reach the greatest number of peopla liketo be interested in the class of stock the employment of a competent and
trustworthy auctioneer.
Such a salesrustworthy auctioneer. Such a sales
man is Mr. Thomas Ingram, of Guelph, man is Mr. Thomas Ingram, of cuelph,
whose long and widely extended experience in that capacity, coupled with his correct knowledge of values of live stock
and properties, his ability, by his genial and gentlemanly manner to attract and hold the attention of a company, his and buyer, and his sucoess in artanging
satisfactory
settlements, commends him to the patronage of farmers, breesers and others contemplating the holding of auc-
tion sales. The Guelph and surrounding districts are fortunate in having the

QUESTIONS AND ANSWERS. Miscellaneous.


antiofuntation.
Tuberculosis and the Fine Arts.
In a resume of Dr. John Bessner
Huber's new book on Tuterculosis. which appeared recently in the New curs the following paragraph "Had it not been for the tubercu-
osis parasite, Bastien le Page might have given us another Jean of Arc, continued to permeate her audiences with the divine fire that was in her, John Keats might have written andreamed another First Polonaise, we might have taken another Senti-
mental Journey with Laurence Sterne, have had more of Robert Louis tevenson's delicious lacework, and enjoyed more of Stephen Crane's war
stories. The list is almost endless. ranges from that splendid fighter, ohn Paul Jones,
monds, and Prosper Merimee,,
It is true that the number of illuecumbed to this dread disease is appalling, and at first glance it, might seem as though "the great " have
been especially
sensitive to ravages. Possibly, from the fact
that musicians, literary men and stuthat musicians, literary men and stu-
dents of all kinds have perforce to ead a somewhat sedentary life, there
may be some ground for such a conclusion. Possibly, too, the highly-
strung temperament of the real Inusiclan, the real poet, or dramatist
or artist may have a weakening effect upon the mere bodily tissue, and
so predispose its possessor to the so predispose its possessor to the
discease ; yet, since one human being In every seven dies of tuberculosis,
the preponderance may not be as overwhelming as it seems. A more interesting aspect from the
literary standpoint is the conjecture has hat upon the works of these men
and women. Had it not been for the influence of tuberculosis, with its
strange alternations of despair and strange alternations of despair and
almost jubilant hope of pathetic
resignation and a otuborn rebelion against encroaching weakness in
which the frail strngth is pushed to
the limit; its periods of dreaminess, and retrospiection, and almost fever-
ish elation of mind, would we have $r$

## Those who have made a study of the subject say no.-that we should

 the subiect say no.- that we shouldassuredly have had a Chopin, but
not a Chopin of the weird and plainStevenson oi a different order ; and
so on throughout the list. If there so on throughout the list. If there
be anything worth noticing in the
theory-and it only seems reasonable
to suppose that there may be-the to suppose that there may be the
characteristics of these workers have
shrely been paid for at a terible
sula cost. The supposition is at least
interesting, pathetically so to the ad-
mirer of these invalid artists, psechologically so to the inves
tivator and the theorist.

A P. E. II. Writer on the Con-

## School still holds with a tenacity

 subjects of the day. The following from the pen of Mr. Theodore Ross, Instructor in Nature Study and School Gardening in P. E. Island has been called forth in reply to pre-vious articles on the subject which vious articles on the subject
have appeared in these pages : The way in which an opinion car be arrived at regarding the value o a general system of Macdonald Con solidated Schools, such as those in
stituted by Dr. James W Robertson, would be by noting the defects in our present system and considering to what degree these defects would b emedied by the newer system. tem are : (1) Inexperienced teach ers, (2) irregular attendance, and (3) a curriculum not sufficiently articu-
lated with the industrial needs lated with the industrial needs of
our community.
The causes of so many of our
schools being taught by teachers o little or no experience are: : (1) lack
of adequate remuneration, and (2) of adequate remmuneration, and (2)
lack of social life. would lead to the establishment of more schools of the first rank, the
principals of which would receive a larger Government grant. It is quite possible, too, that it might lead to In small school districts it often happens that a son or daughter of one
of the trustees or prominent rate payers is a teacher, and through her relatives and personal friends will get Che school, which he or she would
likely agree to take at a very small likely agree to take at a very small
remuneration, because of living at home and having no board to pay.
This will not be possible to such an This will not be possible to such an
extent in a much enlarged district. extent in a much enlarged district.
Again, one would think that a teacher having charge of a arge schoo
with several teachers
under
him would deceive a larger grant from the
ratepayers than if he were teaching in an ungraded school, but that has
not been the experience with us. It
does not seem to follow that. the mere not seam to folldation of the schools the will
influence the ratenaers to influence the ratepayers to vote larger
supplements, especinly if in the con-
solvation any additional expense is Solidation any additional expense is
incurred, but it will lead to larger
(oovernment grant. which will mean increased ramuneration for the prin-
cipal.
The presence of several teachers at one center will o morn to create a
social atmosphere. Around them the more ambitious young people of the
district will congregate. Societies programmes carried out, and the quickened All this tends to raise pexpericnec of the past has, been that
the teachers in a school of several grades remain longer in the profes-
sion than those who thache in un-
graded schools, even though the remuneration may be no greater
If we look over the statistical
last ten years, we will find percentage in attendance has been graded schools than at the ungraded
schools. The chief cause of the low percentage of attendance is that the parents do not like to compel their
children to go to school when they find it so unpleasant and irksome, and when the facts through which the children are trained bear so litThe mere fact of increased numbers makes the school work more agreeable to the pupil, and makes possible during the intermissions. When to this is added a comfortable building with attractive surroundings, and studies which appeal to the native inmake a direct appeal to the parents, we have good reason to think that the increase in attendance will be very marked, as it has been, and is, Consolidated Schools.
The feeling that our curriculum has not been adapted to giving the boys
and girls the best possible training or life, especially in an agricultural community. has long been growing. Many parents object to their children going to school too much, lest they The charge is only too true, that our schools have been weaning the boys and girls away from the farm, and
unfitting them for life in an agriculunfitting them for life in an agriculThe ideanunity
ing as well as the intellect, and that a trained intelligence can be used satisfactorily in the running of a
farm, if not novel with us, has not been sufficiently impressed upon us to influence our curriculum, and the reason our schools are so poorly supported by our people is that they life. The introduction of household science, manual training and nature study will meet this difficulty most these subjects can be taught in an ingraded school; it is not probable that they would be. At any rate here can be no doubt that they

The introduction of these subjects Nil increase the cost of maintenance of our schools, but our farmers, as a pay for a good service. In brief, a
general system of Macdonald Con solidated Schools, such as those in would remedy the gravest defects our present system, giving us teach ers of greater experience, a more
regular attendance of pupils, and a curriculum more closely articulated
with the industrial life of our people.

Let the wealthy and grea
Roll in splendor and state
I envy them not. T dect
My chickens and ham,
I shear my own fleece and I wear it
I have lawns, I have howers,
I have fruits, I have flowers,
The lark is my morning alarmer
So my jolly boys now,
Here's God speed tne plow.
Lons life and success to the

The "Eastern Debate" Issue Develops Into a Contro
versy. has very carefully read the views of the different writers in the "Eastern Debate, and having had some experience in the character of the work that it is possible to do in both rural schools and consolidated schools, he may be pardoned for giving his Finst on this important question. First, however, it would seem just to
those who have had the management of the finances of the Macdonald Consolidated School at Middlleton, N.S., to correct the charge of mismanagement that seems to be attributed to
them in one article written in this debate. The school board of this section has always used all economy possible in keeping with the school. "Macdonald's money is doing it" has
never been the "keynote" of the exnever been the "keynote of the exonly in the imagination of some onThere are other things in the article to which I have referred that might call for some commenent. While many good things are said, othere are somewhat contradictory. Evidently the article was written in a
hurry. The conditions here force us hurry. "academic conditions.". No school in Western Nova Scotia, with, perhaps, one exception, has had a larger number of pupils doing high-
school work than the Macdonald school work than the Macdonald
Consolidated School at Middleton It is true that this called for expen. sive laboratories to do effectually the
work placed upon the school ; but work placed upon the school f but is the universal verdict of those who know.
In ad
In addition to the high-school students of the central town, sixty
pupils doing high-school work have been carried to this school annually. If these pupils went abroad for the
privileges they have received here it privileges they have received here it
would have cost their parents more than the extra cost of this school over that of the separate miscel-
laneous schools. But this is only one item. The high-school pupils of the town have had more valuable
school privileges, and over thiee hundred pupils in the common-school grades have had advantages that smaller sc
As to the salaries of teachers, the best teachers were looked for, and
fair salaries were paid. fair salaries were paid; but to show
that no "extravagances" because "Macdonald's money was doing it " have occurred, it may just be said that the school board, now that it pays all arrearages, has increased the
salaries of all the primary teachers. The plea that one writer makes for the miscellaneous schools is simply absurd. The fact that some great inen have gone out from them is no
argument that they are as good as something better. The establishment of consolidated schools is simply in keeping with the trend of industrial
life, providing for a division of life, providing for a division of labor
that carries with it means for more effectual work. The grading made possible in the larger school is one of

This is the first necessary step for The writers in the affirmative of the debate have set forth the advan-
tages of consolidated schools fairly tages of consolidated schools fairly
well, and they need not be repeated here. These have all been verified in the. experience of this school. But
the extent of country covered by this the extent of country covered by this
school consolidation has been found school consolidation has been found
to be too large. The more distant sections regret that it is not possible for them to remain in the consolidation, while the central sections
have increased their taxation to help maintain the school. The Macdonald Consolidated School has come to Middleton to stay. There is scarcely
a doubt as to its being fully supa doubt as to its being fully sup-
ported financially by the ratepayers ported financially by the ratepayers
within the district after another three years.
It may be well to say just hr that this place cannot be considered
as affording a good lesson in cheap as affirding a good lesson in cheap
consolidation. Large sections were united, giving an aggregate of more than four hundred pupils. Long distances made
salaries. The large schools united did not permit a decrease in the number of teachers. The large number of pupils called for large schoo accommodations. The expenses h
necessarily been in the extreme. But there are in this Provine, no doubt also in other provinces, many small sections that may be united very advantageously. Three
or more sections having few pupils may be brought to a central school. The number of teachers may be re duced. The cost of carrying the few pupils will not be large. Under such solves the problem of rural school life. The cost need be little more than the total of the several smaller
schools, and that better and more schools, and that better and more
effectual work can be done in a wellgraded school of this character few educationists will attempt to deny Such a school affords somewhat the conditions of a city school, with al
the privileges of country life. the privileges a
Progressive measures have alway
had their opponents. Men are slow to learn. Time alone proves the wisdom of improved measures. In ica Act was passed, a large majority of the voters in this Province ex pressed disapproval; but to find a
man of intelligence who would now man of intelligence who would now
vote for a repeal of that act would require a Diogenes with his candle. We confidently predict that the same will be true of rural school consol idation. In the more rural sections
of this Province the work is steadily progressing. The object lessons that the munificence of Sir William C Macdonald has given here are teing used throughout the Province to help
the work along. Principal, Macdonald Consolidated School. Middleton, N. S.

Physical or Moral Suasion Which?

I have before me, as I write, clippings from at least half a dozen papers, each and past methods ip hor moder boys. The first tells of a reunion of old
pupils. with the old masters. who had pupils with the old masters. who had
laught them and oftimes had "ad-
monished them with the rod". half monished them with the rod" half a
century ago. "Boys were boys in those days," said an old veteran, as he pro-
duced, as an interesting relic, a genuine rawhide, which he, with oome young-
sters, had captured when lads in the old Toronto schools, the speaker being one of a group of successful citizens who seemed to have been none the
worse for that old-time method of enworse for that
forcing order. Clippe ming No. 2, datel
or heading,

Carnival of spanking
tells the following
" The
police co
with wailing. Eight mothers plied
stick the trousery hecorder sweotrand on Youngsters had been arrested after hard
work by Chief of police Vin work by Chief of Polioe Van Order and
two railroad detectives for many car twirglaries during the last month.
o. Their parents "Their parents were poor, and Re-
conder Sweetland offered to remit the
fines on condition that the parents fines on condition that the parents ad-
minister corporal punishment in court. minister corporal punishment in court.
The mothers eagerly grasped the rods and proceeded to eern what one of them life.'." tells of a sad fatality which oc-
No.
curred No. 3 tells of a sad fatality which oc-
curred less than a fortnight later,
through the fatal prank of through the fatal prank of some boys
who had placed a spike between the rails, causing the locomotive and bag-
gage car of the train to roll gage car of the train to roll down an
embankment. In such a case should it embankment or moral suasion? Clipping No. 4, from the New York
Ceraing Post, deals with Evening Post, deals with
the decadence of the Slipper ". A police chief in a Chicago suburb
says that ' the decadence of the slipper .

By William Small.
The Last Match.
" ' ' Dar's
seben yahrs ma fist $\mathrm{an}^{\prime}$ sez :. An' when Ah shak Sam comes. Yep, dat's what he does.
". ' Now, Ah's done fried a rabbit fo' dis chil' 10 ' brekfus, an' fo' dinna' Ah'm a fixin' of dese neck bones. Ef yo' feed a chil' he won' go wrong, hut j"s' let him
begin a-wonderin' war he's a-gwine to
git somethin' to eat, an' he's gwine to .'. When Carl come home from school
hes gwine to get fed an' spainked an'
putt' $n$ to bed he's gwine to get fed an' spainked an'
putt $n$ to bed. ${ }^{\text {Dus heah cake-walkin' }}$, putt n to bed. Dus heah cake-walkin
an' crap shootin' ain't doin' nobody no good.' 'The ordinary reader cannot help wondering.' adds the writer of the above,
whether a little of the $\cdot$ Mammy , Fishback theory might not be mixed with the latest pedagogical systems with ad-
vantage." One thing is certain, that whether it be by example or by precept, by slipperdiscipline, or by purely moral suasion, oloperation between
should be recognized as a most important factor of the upbuilding of the ri


Current Comment.

## Items of News.

The Japanese will open Dalny as a free port for
tember 1st.
Greeks and Bulgarians are again in been almost destroyed.

Mrs. Pearl Craigie, better known as
John Oliver Hobbes," died suddeny at her home in London, Eng.,
.
An earthquake, rivalling that of San Francisco, has occurred' at Val
paraiso. Two thousand dead paraiso. Two thousand dead, 100,-
ono homeless, and $\$ 250,000,000$ loss,
is the estimate at present.

At the Inter-Parliamentary Union, which assembled in London, Eng, represented: Austria, Belgium, Canada, Denmark, Finland, France, Ger-
many, Greece, Holland, Hungary, many, Greece, Holland, Hungary,
Italy, Mexico, Norway, Portugal, Roumania, Russia, Spain, Servia,
Sweden, Switzerland, and the United states.

King Edward and Emperor William recently had a friendly conference at
Cronberg. From the fact that Sir Charles Hardinge, Permanent Under Secretary of the Foreign Office, ac
companied King Eidward, it is sur companied King Edward, it is sur-
mised that affairs oi importance other than the mere development of
more friendly relations betwen Engmore friendly relations between Eng
land and Germany were discussed.

Indian Chiefs in London.
nialt and lBasil, Chree chicis of as many tribes in British cheis of as were in London, Eng.. lately, with a
message of greeting to King Edward,
and a the B. C. game law, so that "close"" seasons for game will be abolisned panied them. They were not arrayed in the barbaric grandeur of native garb, having their war paint and reathers in a suit-case. They were
referred, by the High Commissioner, to the Soldiers' Home at BuckingHis Majesty from the races and the regatta, in order that they might ". press his hand,"" providing their
finances held out. They were definances held out. They were de-
lighted at the hospitality of the lighted at the
English people.

The Passing of War's Glory
The fact that the chief ornaments Of the Royal Gallery of Iestminster
Palace, in which the fourteent con-
ference of the Inter-Parliamentary nion recently assembled, are
immense paintings by Maclise, one immense paintings by Maclise, one
depicting the meeting of Wellington and Blucher after Waterloo, the other
the death of Nelson, has been commented on as one of the ironies of
accident. To go a step further, might it not be argued that the
meeting of such a body in such a room indexes very clearly in the chang-
ing ideals of the civilized world? ing ideals of the civilized world ?
A country's artists usually depic its ideals. When Maclisually depinted the (1)) he perpetuated on canvas the nuemall England was riotously jubilant. and "Victory"," was a shout which helped to thrill with a nation's pride
even the hearts of those who must even the hearts of those who must
mourn. When he made the details of Nelson's death live again, he sounded once more over England the magic words, "Fngland expects every
man to do his duty." and the deathman to do his duty." and the death-
sweat of the gallant Admiral was sweat of the gallant Idmiral was
again lost sight of in the glory of Fncland's prowess.
scale more stupendous than ever be- hope of averting war? Why should fore, it is, perhaps, no far cry to
state chat the temper of the best and most powerful races the world over is, almost to a nation, for peace.
Otherwise, why should there have Otherwise, way Inter-Parliamentary
been fourteen
Unions all tending towards the Unions all tending towards the aptution conceived wholly in the interests of peace? Why should there be
a Palace of Peace at all? Why a Palace
should should sovereigns meet and parley-
as is the fashion nowadays-in the

With the Flowers.
Vines for the House. Oitul or in mypring, the following not not season. The illustration shown is of ot the

 windows and also around veranda, is the
Chinese Wisteria. The Wisteria (o Wistaria, as it is sometimes written) is a hardy, strong-growing vine. It re
quires very little care, and will climb a single wire if wound around it. Thi
vine has been growing some eight year and is now 2 to $2 \frac{1}{2}$ inches in diameter at tase. It flowers when three or fou
years old; large clusters of nearly white years old; large clusters of nearly white,
blossoms, which, however, do not las bong. Its principal beauty is its foliage
long long. Its in shammer
The
varieties of these. There are a number of is known as the Jackmanii, the most teautiful of then all. It requires good rich soil with
plenty of water, and will flower the first plenty of water, and will flower the enst
year; but the older it is, the greate year, but the older it is, consequently the greater mass of flowers. This vine is four or
five years old. The Clematis should be five years old. The Clematis should
cut back to within about a foot of the ground every year so as to force ne
wood every year. It will grow about
2 inches a day till it reaches its 2 inches a day till it reaches its
height (about ten feet), flowering aboul height (about ten feet), thowering ass
first of July, and continuing a mass
beautiful rich purple flowers for a mont or more. It can be propagated by cut
tings, or by laying down a vine simila tings, or by laying
to the way grapes are propagated
Neither pen nor camera can, in any way Noither pen nor camera can, in any mus

## The Quiet Hour

At Crystal Springs

the King of Italy, to cite but one ex-
ample, choose to find his greatest interest, in an International "Agricultural" Council, rather than in mat-
ters once considered nobler? Why should the visit of a Chamberlain, a John Morley, a Marconi or an Edison to any civilized city excite more interest, if, perhaps, less, uproar, than
that of a Lord "Bobs" or a Kitch ener ? a Lora "onemsht or a Kitchtiplying queries, but the conclusion is to many minds evident.

To revert to the subject of the pic-tures-our artists nowadays do no to glorify it. Even Russia's canvas spokesman, Verestchagin, chose only
to depict its horror, hoping thus to to depict its horror, hoping thus to
help stem its tide. It was, perhaps, help stem its tide. It was, perhaps war, his enemy, he should be sacri ficed, going down to his death in the
ill-fated war ship, Petropavlovsk which exploded near the beginning o the Russo-Japanese war.
Neither do our poets write war-

Moving Roots-Amaryllis. when I can do so and not injure them. Will you please tell me when would be I have an Amaryllis that does not
the best time to move some rose bushes, bloom. What can I do to make it put he best time to move some rose bushes,
Lily of the Valley, Narcissi, Trumpet
Vin Vine, and Tulips. We have moved our
house, and I want to move the flowers Roots may be reset either in fall or in


" It was just like the day we had last side me, professing to darn stockings,
May-time, Out in the fields somewhere,
That seemed like heaven all the happy daytime
And now I'm going there.
 and flowers,
And bright bue sunny sky,
where the birds sing all through the long
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$ As so many of our readers helped to
send some poor ohildren from Toronto to send some poor ohildren from Toronto to
the country this summer, it may in-
terest you if $\Gamma$ tell you something about terest you if T tell you something about
our Fresh-air work here. $\begin{aligned} & \text { We have about } \\ & 300 \text { children attending our various clubs }\end{aligned}$ 300 children attending our various clubs
and classes during the winter, and, when and classes during come, those who have been most regular are sent to country through
various Fresh-air missions. This year a various Fresh-air missions. This
house ar a
called house "called also placed at our disposal. It was fitted up with every neoessary and many luxuries by kind friends, on pur-
pose to give some of the children-chilpose to give some of the children-chil-
dren and mothers-from the tenements around us a little taste of Paradise here
on earth. This week we have some of the weary, delicate mothers and their little children. T am sitting on the
veranda writing this and watching one veranda writing this and watching one
of the babies swinging in a hammock un-
der the biy maple trees. One of the der the hig maple trees. One of the
mothers is sitting in a rocking-chair be-
but really drinking in deep breaths of the
deliciously cool air and enjoying a little much-needed idleness. Two little children are playing with the croquet balls
near. near, rolling them down the grassy slope.
Another mother is lying on an old quilt on the grass with her baby beside her her
saying : " Yes, Abraham, we haven't any saying: "Yes, Abraham, we haven't an
bad smells or ash barrels here, have we sonny? Th The baby kicks up his heels
in delighted assent. The ice wago ha in delighted assent. The ice wagon ha
just driven up to the door, so you se just driven up to the door, so you se
we are not without city advantages, al though this dear old farmhouse is almost in the woods.
But I must go back and describe our from the city with a party of little Jewish girls at ten o'clock in the morning, and we rode on the electric car for about two hours. Then we followed
a winding path through the woods and a winding path through the woods and
across the fields, the children stopping to pick wild flowers and ferns, or chasing tutterfiies with eager delight-at home
they hardly ever see a blade of they hardly ever see all on paved streets.
doesn't grow very well on At last we reached the roomy, comfort able red house on the edge of the woods-
and there was great excitement as the children were sorted out in the various bedrooms, each containing four or five beds. These beds are enamelled white,
and look very dainty with their white quilts and pink or blue flowered comlorters. The very sight of the pretty
rooms is enoumh
with rooms is enough to inspire the children
with a desire to improve their roundings. The kind friends who fitted
the up the house spared no expense, and There is plenty of furniture in every. room, and also a nice little bath-room
with hot and with hot and cold water laid on from a
private reservoir. The sitting-room is
songs. If they essay the task the songs. If they essay the task the
public does not acclaim, or if it does only because of something else in the poem more appealing than the war spirit, ${ }^{\text {Forget." }}$ When ideals change actions follow. Possibly by the dawning of another century such a revolution may have visionary the poet's dream
Ring out the thousand wars of old, Ring in the thousand years of peace.'
spring. If in the fall, move them any
time between September 20th and ime between September 20th and ctober will hot be time for the roots to develop, and the plants will stand a
much worse chance of surviving the winter, When resetting the rose bushes and Trumpet Vine, be sure to make the bed very deep and mellow, and work in lenty of manure.
Possibly the reason that your Amaryllis does not bloom is that you
have never "rested " it. While the plant continues to put forth fresh foliage, give plenty of water, , ut when it no longer ing off the water supply gradually, until just enough is given to keep the soil rom getting bone dry. During this period it should be kept in a somewhat
dark place, where the temperature does dark place, where the temperature does
not fall below 45 degrees; but do not put it in the cellar, as it might become oo cold and damp there. Watch it
losely, and as soon as there are signs losely, and as soon as there are signs
of fresh life, remove it to a place where it will get more heat and light, and in-
crease the water supply. While growrease the water supply. While grow-
ing actively, occasional doses of weal ing actively, occasional doses of weak
iquid manure may be given to the soil. iquid manure may be given to the soil.
The Amaryllis needs plenty of draining material (broken crockery, etc.) in the
bottom of the pot, and a good rich rottom of the pot, and a good rich
soil, preferably of two parts good loam oil, preferably of two parts good loam
nd one part of old black cow manure. It should never be disturbed unlesu abolutely necessary, because of sourness moved, handle very carefully, sifting the moil about it to atout hall the depth o he bulb, and firming down by watering rather than by pressing with the hand.
If potted in the fall, the plant should be kept rather dry until about January 1st, then forced as quickly as possible. After owering, which is the time in which the
Amarylilis makes its best growth, great Amaryllis makes its best growth, great
care should be taken of the plant. well supplied with rocking-ohairs and
other luxuries-including a shelf of bound
books and a large box full of paper books and a large box full of paper
ones. The kitchen has its taps for hot and cold water, and is fitted up with verything dear to a housekeeper's heart. There are pans and kettles of granite-
ware, a chain dish-cloth, dish-mop ware, a chain dish-cloth, dish-mop and
soap-saver, a three-cornered scrubbingbrush on a long handle; indeed, it would be hard to think of anything that could be needed in a well-ordered kitchen that
is not there or on the shelves of the big, airy pantry. It doesn't seem much like camping out when one find much
things as an ice-cream freezer and a rethings as an ice-cream freezer and a re-
rigerator ready for use. The dining rigerator ready for use. The dining-
room sideboard has its silver drawey
line lined with velvet and well filled with knives, forks and spoons. The children putting a table-mat the table nicely, and setting beside it the pretty napkin-rings-and what pride they took in show-
ing themselves to be good housekeepers. ng themselves to be good housekeepers
To live for a little while in such fresh dainty rooms is the best kind of object lesson, for how can they learn even the
rudiments of housekeeping in rudiments of housekeeping in their crowded, dirty rooms, where they have
nothing but the barest necessities very

What a glorious time those children had : They gathered berriies-black, blue and red-wandered through the woods, or
carried their palls to the Crystal, Spring dorned the clear cold water. They bunches of wild fowers; with great games, sang songs, or stretched them selves out on the grass or in the hamlittle wonder thini. when they in it is back to the hot, ". 'w.ded chave to go they say they are "country-sick," or-
as one of them declared-feel a. though the
had dropped down from Paradise to earth. Think what such an outing
means to little ones whose only playground is a hot, paved street, to get a
chance to roll about on the grass under chance to roll about on the grass under
beautiful maple trees, looking up at the beautiful maple trees, looking up at the
blue sky through waving green leaves. bue sky through waving green leaves.
Then in the evenings we had amateur entertainments of various kinds, with occasional rushes into the bushes in chase for the children's amusement. One big girl sat in a curtained doorway with a
table, covered with a shent table, covered with a sheet, in front.
Her ,hands, which rested on the talle Her hands, which rested on the talle,
were covered with stockings and boots, while another girl, standing behind her, provided arms for the funny little mann
who was dressed in a pair of little who was dressed in a pair of little
trousers and a coat-the latter put on wrong side before. The curtains were carefully pinned to hide the girl who was
behind, and the dwart waved his hand behind, and the dwarf waved his hands
as he stood or danced on the table as he stood or clancod on the table,
while the children crowded round to shake hands and talk to him. Another
evening we had Jack and Jill to enterevening we had Jack and Jill to enter-
tain the company. The faces were made tain the company. The faces were made
with bits of black cloth pinned to sheet. Two people lay down on the floor with their bodies under the sothe
and their clasped hands uplifted. and lined facess were fastened over the outlined faces were fastened over the
clasped hands, with neckties tied round the wrists, and the sheet covered the performers. The room was nearly dark,
and the children shrieked with delight as
the two little the two little figures nodded or shook
their heads in answer to questions. Wo had many other performances, repeated for we could only keep them a week, as there were so many who needed an out-
ing. I was kept busy telling stories, of clothes-pins, clay pipes or wire. But this week, when we have the mothers and babies, you see T am getting plenty of time for my weekly chat with you. But,
indeed, I enjoyed this now experience quite as much as the children, though I did not join in the riotous, fun which
they mis-called "going to bed " at night There was only one drawback to my enjoyment of this splendid holiday, an our neighborhood work amongst the Jews. Our orders are strict, and we are ab-
solutely forbidden to preach Christ to solutely forbidden to preach Christ to
them. It is very hard to obey orders, wher them. It is very hard to obey orders, when
these dear little children flock around me begging for a story. It is so easy to reach the hearts of children and to
awaken in them a real love for the King.

## Children's Corner.

Post Card Collectors. Lillian Mott, Box 39, Mt. Vernon, Ont Neta Charters, Sackville, N. B.
Dora Williams, White Oak P. O., Ont. Teacher-What are marsupials Boy-Animals
their stomachs. heir stomachs.
Teacher-What do they have pouches for? Boy-To crawl into and conceal themselves in when they are pursued.

## Marie's Accident.

Now, tell me why you cry, Marife ?
I've had an accident," sobbed she. Where are your bruises? Deary me I almost tumbled down," she said,

## Rules for Dolls

A wooden-headed doll should be care ful not to hit her head agaist she wishes to preserve a good complexion.
" Often an old doll with a cracked heard and a sweet sth a sour face. ." It is a bad plan for dolls to be stretched out on the floor, as people may tread upon them ; and a doll that is
trodden on is sure to go into a decline." trodden on is suro to go into a dectine.
Madge was reading these rules to her dolly, wi
laughed.
I Dolly," she said, "it's funny: buy I really believe these rules
service in thensecrate themselves to His childhood, their whole lives will be is so with joy and sunshine. The soil we are forbidden to sow it. However
ke the so is our hands, but kindness is appreciated everywhere, by old and young, Jews and Gentiles, and the
Jews have experienced so Jews have experienced so much unkindthose who cruelty at the hands of that we have to teach them first by deeds rather than words that the right name for Christianity is Love. "God takes time," and so must we. In spite
of my impatience, I fully understand the or my impatience, I fully understand the
wisdom of the restrictions laid on us in this " settlement " or " neighborhood"
work, and know that it is often best to work, and know that it is often best to
". hasten slowly." Already our nelghhasten slowly." Already our nelgh-
bors ane beginning to say: "You Christians are far kinder to us than our own people." If we can first win their
love and confidence, it may be positlo love and confidence, it may be possible,
later on, to tell out the good news that the Messiah has come and has far more than fulfilled their highest hopes in connection with Him. Most of our chil-
dren have come from Russia, dren have come from Russia, and-
naturally-expect anything but kind treat ment from Christians.
But it is no wonder that we want to holy gladness lof of God and of the holy gladness of the Communion of nothing even of their own Scriptures. sometimes they say that women have no sittle Jewish girl of ten years old, $\left.\begin{array}{c}\text { One } \\ \text { who }\end{array}\right)$ came out to Crystal Springs with us
this month this month, said that her father did not want to let her come because her mother
had died a short time ago. She said hhe was not allowed to hear any music
nor have any pleaid nor have any pleasure weithin the year. Her father told her that if she had any
pleasure, her mother would come in the nieasure, her mother would come in the
night and choke her. I hope and think
that this was nhat this was an extreme case, but how
that an we help trying to counteract oan we help trying to counteract such
awful teaching as that? And, without awful teaching as that? And, without
direct Christian teaching, it is quite direct Christian teaching, it is quite
possible to awaken Christian ideals and
teach them the glory and the se teach them the glory and the gladness
of loving service. Surely the many of loving service. Surely the many
prophecies about the Jews'
restoration have not yet been fully fulfilled. "Thus saith the Lord: I am returned to Jerusalem with mercies; My house shall
be built din it, saith the LORD of hosts : be built in it, saith the LORD of hosts :
My cities through propperity shall yet be spread abroad, and the LoRD shall yet
comfort Zion, and shall yet cheo comfort Zion, and shall yet choose
Jerusalem. . and the torD
shall inherit Judah as His portion in the My beautiful dead who had known the holy land, and shall yet ohoose Jerusa- $\begin{aligned} & \text { strife, } \\ & \text { lem. } \\ & \text { hosts. Behold. Thus saith the LORD of the pain and the sorrow that we call }\end{aligned}$, will save My people hosts: Behold, I will save My people country east country, and from the west $M y$ people, and and they shall be truth and righteousness. . . . . and it curse come to pass that, as the nations, ye were a
ano
Judah and house of Judah and house of Israel, so will I save
you, and yo shall be a blessing., you, and yo shall be a blessing." And so,
as St. Paul says, "' all Israel shall be saved : as it is written, There shall come out of Zion the Deliverer, and shall turn
way ungodliness from Jacol shor this way ungodiness from Jacol :, for this
is My covenant unto them, when I shall take away their sins." One thing is very certain, God loves these little children and their parents Him, the more eager we shall be in our
desire to carry the Good News to them As Browning says : Who, had never faltered beneath her Nor cross, And on the smile that sweetened her lips Lay light on her blessed mouth that day smoothed from her hair a silver thread, felt dead. I felt with a wonder too deep for speech,
She could tell what only the angels teach. ear, Lest there might be something I should
not hear, Then out from the silence between us stole
message
soul. that reached to my inmos " Why weep you to-day, who have wept That the road was rough I must journey Why mourn that my lips can answer you When anguish and sorrow are both got?
Behold, all my life I have longed for
 And now that I lie in a dreamless sleep, Instead of rejoicing, you sigh and weep. My dearest, I know that you would no
If you could, my slumber, and have me
For though life was full of the things For though life was full of the thing
that bless, I have never till now known happiness.'
Then I dried my tears, and with lifted left my mother, my beautiful dead.

## My Prayer.

Teach me to bear my cross and sing,
Send me Thy patience from above :
Send me Thy patience from above So fold me in Thy perfect love.
He who knows our frame is just, Merciful, and compassiomate,
And full of sweet assurances And hope; for all the language is, That He remembereth we are dust !

## The Robins' Wedding.

(From "Eben Holden," by Irving Young Robin Redbreast had a beautiful nest, an' he says to his love, says he:
It's ready now on a rocking bough the top of a maple tree; lined it with down an the velvet
brown on the waist of a bumble bee." married next day in the land They were married next day, in the land
of the hay, the lady bird 'an' he. of the hay, the lady bind 'an' he.
The Bobolink came, an' the wife of the
same,


Little Orphans.

Had a sound like the jingle of gold; He sat on a briar an laughed at the
choir an' said that the music was

The sexton he came-Mr. Spider by name-a citizen hairy an grey ;
His rope in a steeple, he called the good
people
That live in the land of the hay.
The ants an' the bugs an' the crickets
an' saugs-came out in an' squgs-came out in a mighty

Some came down from Barleytown an ${ }^{\prime}$ the neighboring city of Rye;
the little black people they climbed every steeple,
An ' sat looking up at the sky sat looking up at the sky;
came for to see what a wed-
ding might be, an
furnished they

The Letter Box.
(DON'T send letters for this
Corner", to the London office:
send them to Couse Iictor Ave., Toronto. I am afraid
some of our little cousins have very
short memories.)

Lear Cousin Dorothy, -I live on a
farm. We have farm. We have six cows, two
horses and eleven pigs. I Iike to
watch the little pirs watch the little pigs play. I have
a dog.i his name is Jack. We
take ande "The Farmer's Advocate,"
and we like it very much. I go to
school. and school, and 1 am in the Senior
Second class


Dear Cousin Dorothy, -My father has been taking Dorothy, - Thy father Farmer's Ad-
vocate" for thiree or four yoars


 Then I have a litlie sister, three years
old her name is Margaret. $I$ am in the oddi her name is Marganet. $I$ am in the
Fourth Book. We have a very nice teacher; he is not cross. We are having
our summer holidays now, and I am ex-
 litliace colt. My peta are twoe and one
tittle kit-
tens, a dog, and twin calves. tens, a dog, and twin calves. The dog's
name is Major.
He has quite a few name is Major. He has quite a te
trickes.
Brssic MILEER (age 11).

Dear Editor,-I have never written
"The Farmer's Advocate" Kefore.
am in the Third Book, and go to scho every day. I read the children's corror
every time ZVithout it. We are having holidiays we
 sister; their names are Guy and Bessie. I rather live on the tarm than in the thold.
We bave a lot of chickens and some



Legend.
(Continued from page 1304.) "Hold thou the pipe, my precious
one," said she, " while I fill it for
thee again." thee again.
It was sorrowful to behold how the fine gentleman began to fade back
into a scarecrow while Mother Rigby shook the ashes out of the pipe and
proceeded to replenish it from her "Dickon,", cried she, in her high sharp tone, " another coal for this
pipe !" red speck of fire was the intensely the pipe bowl, and the scarecrow, without waiting for the witch's bid-
ding, applied the tube to his lips and whiffs, which soon, however, became whifs, which soon,
regular and equable.
Now, mine own he
"Now, mine own heart's darling,"
quoth Mother Rigby, " whatever may thy pipe. Thy life is in it, and that at least, thou knowest well, if thou knowest nought besides. Stick to
thy pipe, I say Smoke, puff, blow
thy cloud, and tell the people if question be made, that it is for thy health, and that so the physician
orders thee to do. And, sweet one,
when When hou shalt find thy pipe getting (first filling thyself with smoke) cry
sharply, 'Dickon, a fresh pipe of to-
bacco!' and. ' Dickon, another coal for my pipe!' and have it into thy
pretty mouth as speedily as may be.
Filse, instead of a gallant gentleman Asse, instead of a gallant gentleman
in a gold-laced coat, thou wilt be
fut a jumble of sticks and tattered ut a jumble of sticks and tattered
lothes, and a bag of straw, and a withered pumpkin! Now depart, my
treasure, and good luck go with " Never fear, mother!"' said the
figure, in a stout voice, and sending
forth a courageous whiff of smoke, inte, a courageous whifi of smoke,
1 will thrive, if an honest man and
or "O, thou wilt be the death of me!"
ried the old witch, convulsed with aughter. "That was well said. If
in honest man and a gentleman may! iet along with thee for a smart felow, and I will wager on thy head,
1s a man of pith and substance with
brain, and what they call a heart,

make thee? And I defy any witch
in New England to make such an-
other । other ! Here, take my staff along
with thee !"' The staff, though it was but a plain
oaken stick, immediately took the aspect of a gold-headed can
sense in it as thine own," maid Mother Rigby, " and it will guide thee straight to the worshipful Masmy pretty pet, my darling, my pre, cious one, my treasure; and if any ask thy name, it is Feathertop. For thou hast a feather in thy hat, and into the hollow of thy head, and thy wig, too, is of the fashion they call
Feathertop-so be Feathertop thy
And, issuing from the cottage, Feathertop strode manfully towards threshold, well pleased to see how the sunbeams glistened on him, as how diligently and lovingly he smo ed his pipe, and how handsomely he
walked, in spite of a little stifness walked, in spite of a little stiffness
of his logs. She watched him until out of sight, and threw a witch benediction after her darling, when a
turn of the road snatched him from turn of the road snatched him from
her view. Betimes in the forenoon, when the
principal street of the neighboring principal street of the neighboring and bustle, a stranger of very dis-
tinguished figure was seen on the garments betokened nothing short of nobility. He wore a richly-em-
broidered, plum-colored coat, a waist. broidered, plum-colored coat, a waist
coat of costly velvet, magnificently adorned with golden foliage, a pair
of splendid scarlet breeches, and the finest and glossiest of white silk stockings. His head was covered
with a peruke, so daintily powdered and adjusted that it would have been sacrilege to disorder it with a hat,
which, therefore (and it was a gold which, therefore (and it was a gold-
laced hat, set off with a snowy
feather) he carried beneath his arm. feather), he carried beneath his arm. star. He managed his gold-headed can with an airy grace peculiar to
the fine gentlemen of the period, and to give the highest possible finish to his equipment, he had lace ruffles at
his wrist, of a most ethereal delicacy his wrist, of a most ethereal delicacy,
sufficiently avouching how idle and
aristocratic must be the hands which they half concealed. It was a remarkable point in the
accoutrement of this brilliant per--

Dear Cousin Dorothy, -This is the
second 'etter I have written to ". The
Farmer's Advocate," but as the first one Farmer's Advocate," but as the first one
went to the waste-paper basket, I will be put in print, so $I$ hope it will. We have just taken "The Farmer's Ad-
vocate e" about a year, and I love to vocate" about a year, and I love to
read the children's letters, and some of them are very interesting. We have two
farms, and live two miles west of Rosefarms, and live two miles west of Rose-
ville. We have a lot of poultry. We have' 50 young ducks, 20 young geese,
nine young turkeys and about 200 young chickens. I always feed them,
except when I am away. I have taken except when I am away. I have taken
fourteen music lessons, and like it very
much. much. I have a nice lady teacher.
stopped school a little before Easter. was going to try my Entrance, but
had to stop on account of the work. Wishing you every success.

LAURETTA FRIED (age 14).

Write on one side of your paper only

Dear Cousin Dorothy, -I am a little boy, seven years old. I am in the Part
Second Book. I have a pup called Sport, and a dog called Nip. I have a colt, one year old, called Roxy. It is
a chestnut, and is a great pet. We have a chestnut, and is a great pet. We have
about fifty little chickens, which my
brother and I take care kitten, whose name is Bena. We have quite a few last winter. and father sold quite a few last winter. $\begin{gathered}\text { I hope you } \\ \text { will think enough of my first letter to }\end{gathered}$
———
sonage, that he held in his left hand exquisitely - painted bowl and an
amber mouthpiece. This he applied
to his his lips as often as every five or
ix paces, and inhaled a deep whiff of smoke, which, after being retained a moment in his lungs, might be seen to eddy gracefully from his mouth
and nostrils.
was all well be supposed, the stree
er's name.
yond question,", sreat nobleman, betownspeople. ." Do on ou see the
star at his breast?" " Nay, it is too bright to be seen,"
said another. "Yes, he must need be a nobleman, as you say. But by lordship have voyaged or travelled hither? There has been no vessel from the Old Country for a month
past; and if he have arrived overland from the southward, pray where are his attendants and equipage?
" He needs no equipage to set off his rank," remarked a third. "If he
came among us in rags, came among us in rags, nobility
would shine through a hole in his elbow. I never saw such dignity of
aspect. He has the old Norman blood in his veins, I warrant him." man, or one take him to be a Dutch said another citizen. "The men o those countries have always the pipe at "their mouns so has a
his companion. "" But," in my judgment, this stranger hath been bred learned politeness and grace hath there ner, which none understand so well as the nobility of France. That gait,
now : vulgar spectator might deem it stiff-he might call it a hitch and jerk-but, to my eye, it has an
unspeakable majesty, and must have been acquired by constant observaMonarque. The stranger's character of office are evident enough. He is a French ambassador, come to treat
Canada." "More probably a Spaniard," said another, " and hence his yellow comHavana, or, frost likely, he is from Spanish Main, and comes to make our governor is thought to connive at. Those settlers in Peru and
Mexico have skins as yellow as the

If I see it, I may write again.
KENNETH W. DYMENT
KENNETH W. DYMENT (age 7).

Dear Cousin Dorothy,-This is my first ing the letters very much. M My father
has has taken "The Farmer's Advocate" good; now we can't do without it. like the Children's Corner best of all.
tried for the Third Book in July. live in the country. We have a big
farm. I would rather live in the counIry than in the city. My father has
twelve and eight chickens, and eighty-five hens, and eight chickens, and eighty-five hens,
and 29 cows. I do not live far from
school, for it is built on the north side school, for it is built on the north side
of our farm. We have a cat and dog.
The cat's name The cat's name is have a cats, and the dog's
name is Collie. I will riddles:

1. Why does a will close with a few 1. Why does a chimney smoke? Ans.2. Which should I say, the yolk of an egg are white, or the yolk of an egg is
white? Ans.-The yolk of an egg is 3. What runs and never flies, legless, wingless,
Mississippi River
2. Why is an old man like a
Ans.- 'cause he is full of pains.
3. What is the difference between a
quarter and a dollar Ans.-A big difference. Lonsdale, Ont. ELLEN KENNEDY.

There are two kinds of religion: one consists of creeds, the other of
gold which they dig out of their
Yellow or not," cried a lady " he is a heautiful man!-so tall, so slender ! such a fine, noble face, with so well-shaped a nose, and all that
delicacy of expression about the mouth! And, bless me, how bright mouth star is! It positively shoots
out flames.
"/ So do your eyes, fair lady," said
the stranger, with a bow and flourish f his pipe, for he was just passing at the instant. "Upon my honor, they have quite dazzled me
" Was ever so original and exquilady, in an ecstasy of delight.
Amid the general admiration excited by the stranger's appearance, One was that of an imperting voices, which, after snuffing at the heels of the glistening figure, put its tail between its legs and skulked into its master's back yard, vociferating an
execrable howl. The other dissentient was a young child, who squalled at the fullest stretch of his lungs, sense about some unintelligible nonFeathertop meanwhile
way along the street. Except for the few complimentary words to the clina, and now and then a slight inthe profound reverences of the bystanders, he seemed wholly absiorbed
in his pipe. There needed no other in his pipe. There needed no other than the perfect equanimity with which he comported himself, while the curiosity and admiration of the town swelled almost into clamor
around him. With a crowd gathering behind his footsteps, he finally reached the mansion house of the worshipful Justice Gookin, entered the gate, ascended the steps of the
front dour, and knocked. In the interim, before his summions was answered, the stranger was observed to shake the ashes out of his pipe.
"What did he say in that shar voice?" inquined one of the specta"Nay, I known not," answered his
friend. "But the riend. "But the sun dazzles my his lordship looks all of a sudden Bless my ,wits, what is the matter ith me ?
hat his pipe, which waid the other an instant ago, should be all alight

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TO SECURETHEBESTRESULTS Place in id. in tho Farmor's Adroceto
ever saw. There is something my-
sterious about this stranger. What serous of smoke was that: Dim
and faded, did you call him? Why,
and and faded, did you call him? Why,
as he turns about the star on his as he turns about the star on his
breast is all ablaze."
"It is indeed". said his on ; " " and it will go near to dazzle pretty Polly Gookin, whom I see peeping , at it out of the chamber
window The door being now opened, Feath
ertop turned to the crowd, made ertop turned to the crowd, made
stately bend of his body like a grea stately bend of his body like a great
man acknowledging the reverence of man acknowledging the reverence
the meaner sort, and vanished into
the house. There was the house. There was a mysterious
kind of a smile, if it might not be kind of a smile, if it might not be
called a grin or grimace, upon his held him, not an individual appears to have possessed insight enough to detect the illusive character of the
stranger, except a little child and a cur dog. Our legend here loses somewhat of
its continuity, and, passing over the preliminary explanation betwee quest of the pretty Polly Gookin. She was a damsel of soft, round figure, with light hair and blue eyes,
and a fair, rosy face, which seemed neither, very shrewd nor very simple
This young lady had caught glimpse of the glistening strange while standing at the threshold, an
had forthwith put on a lace cap had forthwith put on a lace cap,
string of beads, her finest kerchief
and her stiffest damask petticoat, in and her stiffest damask petticoat, i,
preparation for the interview. Hurry preparation for the interview. Hurry
ing from her chamber to the parlor ing from. her chamber to the parror,
she had ever since been viewing her-
self self in the large looking-glass and
practicing pretty airs-now a smile practicing pretty airs-now a smile,
now a ceremonious now a ceremonious dignity of aspect
and now a softer smile than the
former, kissing her hand likewise and now a softer smile than the
former, kissing her hand likewise,
tossing her head, and managing her fan, while wead win the mirror an un un-
substantial little maid repeated every substantial little maid repeated every
gesture and did all the foolish things that Polly did, but without making her ashamed of them. In short, it
was the fault of Pretty Polly's ability rather than her will if she failed to
he as complete an artifice as the il hustrious Feathertop himself; and,
lus as
when she thus when she thus tampered with her
own simplicity, the witch's phantom own simplicity, the witch's phantom
might well hope to win her. No sooner did Polly hear he fath-
er's gouty footsteps approaching the er's gouty footsteps approaching the
parlor door, accompanied with the stiff clatter of Feathertop's high-
heeled shoes, than she seated herself heeled shoes, than she seated herself
bolt upright, and innocently began
warbling a song. warbling a song.
". Polly ! daughter Polly !", cried Polly ! daughter Polly !" cried
the old merchant. "Come hither,
child." Master Gookin's aspect, as he opened the door, was doubtful and
troubled.
"This gentleman," presenting the stranger, "" is the
Chevalier Chevalier Feathertop--nay, I beg his
pardon, my Lord Feathertop pardon, my Lord Feathertop-
who hath brought me a token of re membrance from an ancient friend of
mine. mine. Pay your duty to his lord-
ship, child, and honor him as his ship, child, and , honor him as his
quality deserves ,"
mediately quitted the room. But fair Polly brief moment, had the father, instead of devoting herself
wholly to the brilliant wholly to the brilliant guest, she might have taken warning of some was nervous, fidgety, and very pale Purposing a smile of courtesy, $h$ had deformed his face with a sort o galvanic grin, which, when Feather for a scowl, at the same time shak ing his fist and stamping his gouty foot-an incivility which brought its appears to have been that Mother Rigby's word of introduction, what ever, it might be, had operated far than on his good will. Moreover being a man of wonderfully acute servation, he had noticed that th painted figures on the bowl of
Feathertop's pipe were in motion Looking more closely, he became con vinced that these figures were a party of little demons, each duly provided hand in hand, with gestures dancing bolical merriment, round the of dia ference of the pipe bowl. As if to confirm his suspicions, while Master dusky passage from his private room to the parlor, the star on Feathertop's breast had scintillated actual upon the wall, the ceiling gleam

With such sinister prognostics manifesting themselves on all hands, it is chant should have felt that the mercommitting his daughter to a very inestionable acquaintance. He cursed elegance of Feathertop's insinuating this brilliant personage bowed, smiled put his hand on his heart, in haled a long whiff from his pipe, and smoky vapor of a fragrent with the ible sigh. Gladly would poor Master Gookin have thrust his dangerous guest into the street, but there was This respectable old gentleman, we fear, at an earlier period of life, had given some pledge or other to the evil principle, and perhaps was now
to redeem it by the sacrifice of his to redeem
It so happened that the parlor door was partly of glass, shaded by a silken curtain, the folds of which the merchant's interest in witnessing what was to ensue between the fair Polly and the gallant Feathertop that, after quitting the room, he could by no means refrain from peeptain.
lous to be was nothing very miracutrifles previously noticed-axcept the the idea of a supernatural peril on vironing the pretty Polly. The thorough and true, was evidently a
world, systematiced man of the world, systematic and self-possessed

## About the House.

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> ning for a new house, the additional
cost of carrying the porch or veranda to the second story-and roofing it comfort would far outweigh the initial
expense. expense. Think of the wear and tear
upon nerves and temper, not to speak of sarpets and furniture, which would be
saved if there were some convenient place where heavy beds, mattresses, etc.,
could be brought for airing and dusting could be brought for airing and dusting,
without the necessity of dragging them
up and down stairs. Who does not know the inconvenience of Whaving to to go
'all the way downstairs ," when garment way downstairs" whenever a
Of course, in a city whers or shaking? bows with one's neighbors on each side, More or less (generally more), is public,
it is preferable to have this ." house, but in tha country, where of the is
not so much exposed to the the

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 the skins burst; carefuly strain of every partuice of juice and return to the fre,
adroing to each quart of juice 1 pint
granulated granulated sugar, 1 cup vinegar, 2 toa-
spoons salt, a tablespoon whole cloves, half a grated nutmeg, a teaspoonful of
ground allspice, and a tablespoonful of powdered cinnamon. Boil slowly about
one hour, and seal. Delicious with

The Homesick Wanderer. (Noah 0'Mahoney, in Irish Monthly.) It tands aiar 'midst happy, sunlit
felist
little farmhouse, brown and old, With ancient, ivy-covered, buttressed
walls, Anstraw-thatched roof of gold ; Grown weary of its heavy ways,
Wistul, from off the hot, white road, And long for the old days.
For there the nights were blessed with The days were filled with happy cares,
And there the skies seemed ever blue and there
Whas time for peace and praye:s ;
Whila Was time for peace and praye:s
While outh
outh and laughter, joy and hop

 And now I stand and gaze with heavy
Across dear fields in longing sore
0
When Vegetables are In.


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was cured was cured
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Granite Hill, Muskoka, Ont., writes:" I am taking the liberty of informing you for two years 1 suffered from bleed-
ing piles, and lost each day about half a cup of blood. Last summer, I went
to the Ottawa General Hospital to be operated on, and wis under the influence
of chloroform for one hour. For about two Gronths I was better, but my old trouble returned, and again I lost much
blood. One of my doctors told me, I would have to undergo an operallon,
I would not consent. "My father, proprietor of the Riohelieu.
Hotel, Ottawa, advised me to use Dr. Chase's Ointment, and two boxes cured me. I did not lose any blood after be
giming this treatment, and I have every reason to believe that the cure is a
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dition, builoings, fonces, pood. Particulars. J.
Hunter Holly Park. Gunter Holly Part


GOSSIP.


AUGUST 23,1906
 whom a parent ought not to connde
a simple
young girl,
without due watchpuliness foung for worthy magistrate, who had been
conversant with ali degrees and qual-
ities of mankind, could not but perities of mankind, could not but per-
cive every motion and gesture of
the distinguished Feathertop came n its proper place; nothing had well-digested $\left.\begin{array}{c}\text { conventionalism } \\ \text { incorporated itself thad }\end{array}\right)$ his substance, and transformed him
nto a work of art. Perhaps it was this peculiarity that invested him
with a species of ghastliness and with a species of ghastliness and
awe. It is the effect of any thing
completely and consummately artificial ompletely and consummately artificial
in human shape, that, the person impresses us as an unreality, and as havheathertop, all this resulted in a ression, as if his life and being wer akin to the smoke that curled up-
ward from his pipe. thus. The pair were now promenad-
ing the room; Feathertop with his dainty stride and no less dainty
grimace ; the girl maidenly grace, just touched, not spoiled, by a slightly affected man-
ner, which seemed caught from the onger the interview continued, The more charmed was pretty Polly, un-
til, within the first quarter of an hour (as the old mayistrate noted
by his watch), she was evidently be ginning to be in love. Nor need it
have been witchcraft that subdued her in such a hurry; the poor child's heart, it may be, was so very fer-
vent that it melted her with its own
warmth, as reflected from the hollow semblance of a lover. No matter
what Feathertop said, his words
found depth and reverber round depth and reverberation in her
car ; no matter what he did, his
action was heroic to her eye. And action was heroic to her eye. And
hy this time it is to be supposed that there was a blush on Polly's cheek,
a tender smile about her mouth, and a liquid softness in her glance; while
the star kept coruscating on Feathertop's breast, and the little demons careered with more frantic merriment
than ever about the circumference of his pipe bowl. O pretty Polly Goo-
kin, why should these imps rejoice so Inadly that a silly maiden's heart
was about to be given to a shadow Is it so unusual a misfortune, so rare
a triumph ? By and by Feathertop paused, and,
throwing himself into an imposing girl to survey his figure and resis him longer if she could. His star,
his embroidery, his buckles, glowed, at that instant with unutterable splendor, the picturesque hues of
his attire took a richer depth of coloring; there was a gleam and
polish over his whole presence, be-
tokening the perfect witchery of welltokenng the perfect witchery of well-
ordered manners. The maiden raised
her eyes, and suffered them to linger upon her companion with a bashful
and admiring gaze. Then, as if de-
sirous of judging what value, her own simple comeliness might have side by
side with so much brilliancy, she cast side with so much brilliancy, she cast
a glance towards the full-length look-
ing-glass in front ing-glass in front of which they hapof the truest plates. in the world,
ind incapable of flattery. No sooner
lid the images therein reflected meet and incapable of flattery. No sooner
lid the images therein reflected meet
''olly's eye than she shrieked, shrank rom the stranger's sidee, gazed at nay, and sank insensible upon the
loor. Feathertop had likewise look-
a towards the mirror, and there behi towards not the glitrering mockery of
his outside show, but a picture of
his he sordid patchwork of his real com-
Mosition, stripped of all witchcraft.
The wretched simulacrum! We alhost pity him. He threw up his
rms. with an expression of despair hat went further than any of his
lrevious manifestations towards vin-
licating his claims to be reckoned

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Bell's
Feed Cutters Save
Your
Muscles ing!"' "Let her alone, mother," an-
swered poor Feathertop ; "the girl swered poor Feathertop, the girl
was half won, and methinks a kiss
from her sweet lips might have made mrom altogether human. But," he added, aiter a brief pause, "I've seen
myself, mother ! I've seen myself fo the wretched, ragged, empty thing I am ! I'll exist no longer !"'
Snatching the pipe from his mouth he flung it with all his might against the chimney, and at the same instan
sank upon the floor, a medley straw and tattered garments, with
some sticks protruding from the heap and a shrivelled pumpkin in the midst. The eyeholes were now that just before had been a mouth,
still seemed to twist itself into a despairing grin, and was so far "P Poor fellow !" quoth Mother
Rigby, with a rueful glance at the relics of her ill-fated contrivance. My poor, dear, pretty Feathertop
There are thousands upon thousands of coxcombs and charlatans in the of worn-out, forgotus and good-for-
nothing trash as he was! Yet they live in fair repute, and never see
themselves for what they are. And why should my poor puppet be the
only one to know himself and perish While thus muttering, the witch had
filled a fresh pipe of tobacco, and held the stem between her fingers, as loubtful whether to thrust it into "Poor $\begin{aligned} & \text { Feathertop!" } \\ & \text { tinued. } \\ & \text { ano con- } \\ & \text { another chance and easily give him } \\ & \text { give him forth }\end{aligned}$ again to-morrow. But no, his feeltoo deep. He seems to have too
nuch heart to bustle for his own adess world. Well! Well! I'll make and will suit and a a darling well : and, as fit a one, thwould be better for tobacco, I need it more than he,., of So saying, Mother Righy put the
stem between her lips. "Dickon !", cried she, in her high, sharp tone,
"another coal for my pipe!"' - Haw-
thorne. in "Mosses from an Old A figure burst headlong into the His pipe was still was Feathertop!
still flamed ; the star still flamed upon his breast, the em ments ; nor had he lost, in any demated, the aspect that assimilated But yet, in some indescribable way
(as is the case with all that has de luded us when once found out), the
poor reality was felt beneath the cun"What has gone wrong ?" demanded hypocrite thrust miy darling from his twenty-five fiends to torment him
till he offer thee his daughter on his bended knees !"," "No, mother," said Feathertop, despondingly, it was not that."
"Did the girl scorn my precious
one?" asked Mother Rigby, her fierce eyes glowing like two coals of Toppimples! Her nose shall be as red as the coal in thy pipe! Her front
teeth shall drop out! In a week hence she will not be worth the hav

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byyor or willer. Nearly two hundrad horvee sold
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Johnny. Three kinds.
Teacher,-Name them.
Johnny--Bodily force, mental force
and police force.-[Philadelphia Led-



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Simose co. onutri. St Louls
The Ontarie Votarinary Collogo, tut


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DURHAM OATTLE FOR SALE


Wm. Grainger \& Son


 Rembe:

ELIW GROVE SHORTHORIS

 W. G. SANDERS \& SON,




 For Sale: Two Young Shorthorn Bulls

Also Cows and Helfers, and one good Imp.
York. Sow, also a good Yorkshire Boar one year old. Good breeding and good animals
DAVID MILNE, ETHEL, ONT


 LAKEVIEW BHORTHORNS spion King (Imp.) at head of herd. Young bulle
for nale reasonably. For prices, etc., apply to thos. ALLIN_BROS., Oshawa. Ont ROSEDALE SHORTHORNS Do you want a profitable cow with calf at foot, calve from imported stock. Choice milk strains
Write ito .
Hamitation PROSPECT STOCK FARM. For sale: Bulls, inoluding Gold Mine (imp. in dam, diso Tite ad Btreoterille. C.P.R.R. Brampton, G.T.R.

| cossip |  |
| :---: | :---: |
|  | - Exhibition in the classes of live stock |
|  | ${ }^{\text {as }}$ follows: Horses (heavy)-C. ${ }^{\text {m. }}$ |
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| aning exhistions |  |
| aritime Provinces starts at st. John, |  |
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| ; Chatham, Sept. | the |
| lifax, Sept. 22 nd to Octob |  |
| harlotte |  |
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| vince circuit of thars | secure their reguar wnter supply |
|  | pyrotechnics |
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| direct from the country eistates of King |  |
| Edward VII. and Lord Rothschild. The |  |
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| at the exhinitions at Toronto, August 27th to | Pierce Land and Cattle Co. |
| Se | side, Cal., who own one of the |
| don, September 7 th to 15 th, and at |  |
| Kansas City the following week, Lord | coast, have re |
| Rothschild owns five and King Edward | ing |
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| Sandringham. The geldings stand over |  |
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| champion in 1905. The |  |
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| exhibition horses to re, resent the breed |  |
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| CWS MEANS. | mals |
| of the Ontario |  |
| an | large, even udders, large |
|  | is of great importance, the |
|  | go |
|  | are heifers, rising three years, that are |
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| he factory, and they yielded him about |  |
| 30 per head per year. ${ }^{\text {I asked }}$ him why he did not keep a record of his |  |
| (e) |  |
| st | All of which goes to show that as ducers this herd has few enuuls. |
| ${ }^{845}$ | fact, last year, incluxing heifers, the |
| the | "hole herd made Mr. Porter in cash |
| nyly |  |
| ${ }_{\text {accordingly }}^{\substack{\text { a } \\ \text { the worst }}}$ | product |
| out the worst | they compar |
| ows bought from his neighbors who did | oozis, that won |
| ot know their value. He continued | in the senior yearling class, has |
|  | ved immensely, and we look for |
|  | to |
|  | cow, Pauline, that won fourth 1 |
| do say is that if | will |
| he | others, trom calves up, that will |
|  | at |
|  |  |
| ays no attention to this advice, as fol- |  |
|  | hea |
|  | Bell's Fox |
| dubt the majority will go home, and | Blue Fox, |
| thing will be done. It stems to me | Lady Fox's |
|  | .ng bull of ideal form, and will cer- |
| to me that |  |
| so scarce, you sho | en Fox, dam L. Nellie of De |
|  | aughter of |
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| ding aking | such high-class stres at the head of |
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|  | on. Anything in the herd is for sille. |
|  | There are 40 females in calf. Mr. Porter |
|  |  |
|  |  |
|  |  |

MILBURN'S
Heart and Nerve Pills.





Prico 50 cents por box, or 8 for 31.2 Ka


## Shorthorns

OF SCOTCH BREEDING.
Imported oows and heifers for sale emales all ages, and a fine collec tion of young bulls from six to six teen months old - imported and
Canadian-bred.
New importation Canadian-bred. Now importation
due home August 26.
Inspection
H. J. Davis, woorsook, owr.
 Spring Grove Stock Farm


4

 T. E. ROBSON, Ildeition, Ont. SHORTHORNS AND BERKSHIRES.
 S. J. PEARSON, SON \& CO. Stations: Streelsille and GEO. D. FLETCHER,


 Binkham P. 0.,Ont. Erin Station and Tolegraph Glenoro Stock Farm shorthorns and lincolns.

 A. Moarning rams for
A. D. MoGugan, Rodney, Ont.

 Ble prices. BROs., Bradford, Ont. High-class Shorthorns- We are now offer
3 heifers
ing 5 young bulb and



females (Berks.) 2 and 3 monthe old
EARSON, SON

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## 

AUGUST 23, 1906


THE FARMER'S ADVOCATE
1339 QUESTIONS AND ANSWERS. sand vetch as a solling crop. I would like to know something ab sand vetches as a soiling crop. Would Ans.-Although the sand or hairy vetch is ahout the best orchard cover
crop that can be grown, we cannot speak
so confidently of its value for soiling so confidently of its value for soiling
purposes. However, it is stated on good authority that where it stands the win-
ter, a combination of vetch and winter rye makes a luxuriant and satisfactory has any particular advantage over the
common winter vetch for this purpose is ommon winter vetch for this purposs is
not clear. The latter is more uprikht
in its habit of growth, is more e eisily in its habit of growth, is more easily
harvested, and is less tough in the suems.
I,et us hear from any who have had exver us hear from any who have had ex-
verience in Erowing either sand vetch or
common vetch, particularly the I would like MARL.
mineral specimen analyzed to see if it is the kind of clay that fine china is made
from. If not, I would like to know
what mineral it contains. F A. H. Ans.-The sample sent is not a clay,
but a marl of very good quality, from which an excellent Portland cement might
be made. The clay from which chint is made is a product of feldspar, known
as albite. Mard, on the other hand, is
a calcareous product. The clay referred to abounds in Engl. The clay referred
and other coun-
ries, where large industries hever tries, where large industries have been
built up in manufacturing it. The ce-
ment business in this country has been E

THE BREED THAT FIRST MADE HILLHURST FAMOUS.'

## Great Dispersion Sale

## Hillhurst Farm Shorthorns

ferm heving been sold, the entire Shorthorn herd will
FRIDAY, SEPTEMBER 7th, 1906
On the Fair Grounds of the Great Eastern Exhibition, sherbrooke, P. Q
33 females (four with calves at foot), 8 bulls and bull calves,
comprising Co.'s 1905 salle imported English and Canadian milking lamilies, chieffy of the sootct- bates breeding now so popular
in Great Britain. Several high-class show animals sare included.

GAPT. T. E. ROBSON
Jas. A. Cochrane, Compton, P. Q.


## SCOTCH SHORTHORNS

9 heiters, yearling
4 bulls, yearlinga.
All out of imported sires and dams.
Prices easy.
H. CARBILL \& SOM, Carellil, Ont.

## Maple Shade Shropshires AND CRUICKSHANK SHORTHORNS.

 imported owes the same e ace. Bred by Buttar, Farmer and other breeders of note in England.
JOHN DRYDEN \& SON,
Brooklln, Ont.
Westside Shorthorn Herd and Border Leicestar Flock.
All Resistomed in the Hord and Flook Booke of creat Britalm. We invite all interested to inspect the cattle and sheep on tris farm. The Shorthorns are lops
trie families tracigs to to ploneer herds of Scotiand throuah ohannels of repute. The Border
teicester Leicester flock is one of the olaest in sootland. and embraces blood of the hithest breoding
Selootions for sale. Visitors from the States and Canada, will be cordially welcomed. A. Camemon \& Sons, Westside Farm, Breohin, Sootland CEDARDALE SHORTHORNS JOHN GARDHOUSE \& sons, Highfild P.O., Oml.


Sherthorn Cattlo and Lincoln Sheep
Shorthorn bulls, cows and heifers
for sale at greatly reduced prices for the next 60 days. am

J T. GIBSON, Denfield, Ont Plne Grove Stock Famm. Mith Breederi
Chice Shropahire Shen (T)
ney Horvee. Ther her ondor. Adaron. WMES SMITH, Supt., Rookland, Ont
W. C. RDWARD \& Co.. Limited Props. om SUNHYSIDE STOCK FARM

and HEIFERS
Hired by the footch bull, Boottigh Led 450e3 FOR sale.
8. DYMENT, Barrle, Ontario. SHORTHORNS

FOR SALE ' Choioe bull calves by

. H. REID, PINE RIVER, ONT.

GASOLINE ENGINES
 "STICKNEY" Gasoline Engine geainge anything on the
market toc-avy in regarad to
Power Deveropoed. Economy is of Fuvility of Construction. Compare sizz of oylinders in our
engines and others, and then
ond Judae for yourself.
ONT. WIND ENGINE \& PUMP CO., Ltd. MAPLE GROVE SHORTHORNS

$\left\{\begin{array}{c}7 \\ 0-4\end{array}\right.$Imp. and Canadian-bred.
Males and females, as goo Wpes as the breea produced
C. D. Wager Entorpriso Stn. \& P.O., Addinston

SHORTHORNS


. MITCHELL \& SONs,
Heleon p.O., Ozti., Burlinution Juna, Bta R. A. \& J. A. Watt, Salem, Ont




GLENAVON STOCK FARM Shopthorns and Lincoln Sheep
 W. B. ROBERTS, Sparta P.O Clation: Bt. Thomas, C.P.R., M.C.C.., G.T.E

 200. JOHN LEE \& SONs. 40 miles west 8 St. Thomas, on
0 M.C.R.R. \& P.M. Ry.

## SHORTHORNS

 in ceir and ad fow young cows.
heifer calves, cheopp
CLYDESDALES
Juat now: One paito ref matched geldinge 5 and JAS. MoARTHUR, Goble's, Ont: hiverview Shorthorns and Oxfords Shorthorns roprosent Crimson Frowera Wo have for sale three yoarling bulls and some
 Peter Cochran, Almonte P. 0. and Station

## Queenston Helghts

SHORTHORNS

that will make hig,
Straisht sootoh.
HUDSON USHER, Oveenstioi, Onen
'THE FARMER'S ADVOCATE

$\qquad$ the Clydera superior fillies complete
 Wioverrold, bred in Fite, and got by
Time Enough will command favor in
Canada. Among the nine Hackney amada. Among the nine Hackney
talilions exported by Graham Bros. are several of outstanding merit and bread-
ing. on is Datton King, which stood
second in one of the ageod classes at London this year, and third in harness. Ulasses. taking no fewer than six or seven, other prizes. He is a great glver,
of the true harness type, and is excep-
$\qquad$
 serve number at London, second at
Market
Weighton, and
and
frist at Dat Drifoli as a two-year-old.
he was, got hy
hampion Rosador. nother, by the
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$\qquad$ and the Est of
Imp. stock. 25 HEAD Anything for sale. ${ }^{5}$
younh bulls. Breeding
Slt-adeded and unsurW. J. Thompson, Mitchell P. O. \& Sta. Biphdums Parthems

 n. s. robertson. Armprior, ont.
A. EDWARD MEYER, Box 378, Guolph, Ont.
cotch Shorthorns. The Suny Slope herd comprises Cruickshank
eillonas, Mysiess V Villages, Brawith Bude Broad.




## Pleasant Valley

SHORTHORNS

 GEO AMOS \& SON, MOFFAT. ONT.

Oak Grove Shorthorns $\frac{\text { Preepant offering: }}{\text { Several imp cows }}$


SCOTCH-TOPPED SHORTHORNS
Young stock of both sexes for
zale, sired by Scottish Baron
sale, sired by Soottish Baron
(Imp.).
Prices reasonable
H GOLDING \& SONS, Thamesiord, Ontario. Glen Gow Shorthorns-Our prosent offering



Brown Lee Shorthorns ${ }_{3}^{-}$- Present offoring in y to 15 months old, a nice straight, good-doing
lot, sired by Blenheim Stamp; also fomales of
 Pine Ridge Jerseys - Present offering: Some soung ond and
choice lot of heifers, all agees, from 4 moonthe up; iso some good Cotswold sheep (registered). © FOR SALE: 26 JERSEYS under ten FOR SALE: 26 JERSEYS under ten
Years of age Prime condition. Sound.
Nine due to calve August and Soptomber.
 Brampton Jersey Herd For sale: 10 bulls,
 HIGHGROVE JERSEY HERD. Our present offering is : A fow choice heifor
valves from to 8 months old, which, considering
haality, will be sold reasonal ROBT. TUFTS \& SON, Tweed P.O. \& Sta


Burnside Ayrshires Imported and Canadian-bred. Prizewinners at
all the leading shows. I hold tho award of merit given by
the Bd. of Dir. of World's Fair, St. Louis, to the breeder of largest number of prizewinning A. Arshirines at st taid breateaer
Females of all ages for sale, imported R. $_{1}$. NESS, JR., HOWICK, QUE., P.O. AND STATION.


GEO. RICE, TIIIsonburg, Ont HOLSTEINS $\underset{\substack{\text { soR } \\ \text { sile }}}{\text { HOL }}$


Tred by the granaly.bred imp. bull, dit Howith


H. E. GEORGE, Crampton, Ont féw HOLSTEIN BULLS
 a. w. clemons st. George, On
Lyndale Holsteins For Sale A number of bull calleg froi

Centre and Hill View Holsteins


MAPLE GROVE HOLSTEIN-FRIESIANS
 WALBURN RIVERS. Folden's cornore Maple Glen Holsteins Altrae mons of Bir

 Grove Hill Holsteins ${ }_{a}^{- \text {Herd oontaing } 55 \text { had }}$

 IMPERIAL STOCK FARM HOLSTEINS
 "Ge have for immediu" HOLSTEINS
 d. Me ACINTYRE, Renfrew $P$.O. and Btn. Filenwood Stock Farim - Holstains and
 Holstelis, Tamworths. Oxford \& Dorsel
 famworthe, both bexes. HOLSTEINS AND YORKSHIRES
R. HONEV, Brioklev,
sale a choice
Iot of young boars it for
$\mathrm{H}^{\text {LLTON }}$ Cock ent offering: Some young cows; a nice lo


The famous Reford Herd at St. Anno do


Beveral yearling bulls for eale;
alloo a number of bull calves Qualititanam apperarance extragood,
bred trom the beast milking tosrin brod from the best milking straina,
noted for robust oonstitution and noted for robust conssitut
large teatst
For partioculars apply to
MACDONALD COLLEGE St. Anne de Bellevue, Quebee.

 maple curr Dalry and Btook Farm

 Aymshimes and Yorkshimes


 , and g of for sale. Eggs for hatconing, 81 tor HIGH - CLISS GTRSHREM CATTLI

 Wardend Ayrshires We are ofifing yoons
 Select Ayrshire Bulls-Four choi io 1 IR at

tockwood Ayrshires for sat Lockwood Ayrshires som salioe - Have


## We Want HIDES

 SKINS,WOOL
Southolowns

Robt.McEwen, Byron,Ont. Dorsets. Can suply Doree sheen of

 Good young rams and
ewes FOR SALE.
I. MONKAN, Bond Head. Ont
-吾essters A grand lot of one and two sheary rams and


CURES
Dyspepsia, Boils, Pimples, Headaches, Constipation,
Cass of Appetite Salt Rheum, Erysipelas Serofula, and all troubles
 Stomach, Liver Stomach, Liver,
Bowels or Blood. ot Am A.titiang







Suropshira © Cofswald Shoop scotch shorthorns and
 clydesdales Ohoice man and owe lamber. Ale 50 ahearling owes
for male. Apply OHN BRIGHT Mymble station,

Ontemle

HAVE JUET MAPORTRD
THE BEST LOT OF
Shropshime RAMS AND EWES,

Cotswold Rams and Ewes that i have ever ownid. Will quote close prices on applieetion. ROBERT MILLER,

BROAD LEA OXFORDS.



 Treormoti, oip. . DORSET HORH SHEEP and

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be bryur famous imported ram.
 FAIRVIEW SHROPSHIRE RAMS






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## Maple Lodge Stock Farm.

Now Pier tor sale imported Liotionerer ram:
 A. W. SMITH, MAPLE LODGE, ONT. COTSWOLD SHEEP
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W. HOULTON, Broadfield Farm, Northleach, Glow O; or 5 . Hour Lon. ciliary,
Canadian Fonts for the original McDougal's Sheep Dip $\alpha$ Cattle Dressing

 NEWCASTLE HERD OF TAMWORTH S



 Mount Pleasant Herd of Tamworth and Holsteins. Alarge herd of oho ion pigs of al


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 cattle. We invite your in section.

## BERKSHIRES <br> M. VANDERLIP, 

HILLCREST HERD OF ENGLISH BERKSHIRES
 by Concord T., bred to Atoll Pitts' w. These are choice on d LatiMER, Vine P.O., Ont.

Fairview Berkshires|MONKLAND YORKSHIRES


## QUESTIONS AND ANSWERS

 Miscellaneous.abnormal appetite Can you tell me, through your wall
able paper, the cause and cure for cows and $y$ y
bones Ans, -Any one of a number of causes
may account for this abnormal
 essential ash, constituent lack of some ot other
induce the habit, which food may
in
 position or insist the a time. The com-
eannentural is substance
not always an indication

 powder) to the soil has phosphate
affected the fear ale
directly satisfied
grown, and thus phosphorus. In some cases, no doubt
an application of wood ashes would
benefit not only the yield, but tho
 stout ashes, phosphate powder, or a sub-
site in the form of bono meal and
lime. Meanwhile see that the animals
have plenty oi salt before them. and five
them pest




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