## PAGES

MISSING

## Che Farmers Yydvocate

and Home Nragazine

LONDON, ONTARIO, AUGUST 1, 1907
EDITORIAL

THE RURAL SCHOOL AND THE FARMER In pursuance of the general policy of the De-
partment of Education, advantage is of the present holiday season to carry out a building and equipment of many rural public nendable for the reason of Ontario. This is com the total population of the country is reported chool, and, therefore not education in the rural tractive and comfortable quarters should be pro-
vided for so important bservation and ideals of youth are largely moulded by the character of the surroundings in too large a proportion of cases the grounds and buildings have been in a notoriously disgraceful is, as the Deputy Minister of Fiducatio believe tario (Mr. Colquhoun) latelv of Fiducation for Oncountry will rise higher than the level of its rural population, then it becomes us in every possible way to improve the character of the rural school, in its externals, its curriculum and the nature its teaching.
Institute has been idealized School or Collegiate people, and the success of the rural teacher has pren measured in the community by the number of pupils who could be crowded along to pass the
Entrance Examination. Our young folk have been going in droves at the immature age of 12 and 13 years into the cities and towns, where the and its pursuits. This tendency we believe to be best for the gencral up-bringing parents, not the bad from an educational point of view for the reason that the eflicient government and teaching portion to their size and attendance, but rather in the mass, and receives less and less personal attention. Individual development disappears in
a sort of general average. For this reason, many thoughtiul parents, and students as well, have tainater in the at tendance than in one where the roll ranges from he student may be assumed to be somewhat given for him, but whether or not he profits b and High Schools a better system is necessary. ngeinning to question if it is not becoming too held to be not proportionate to the outlay in"e are not surprised to find in the Vnited
with a strong feeling taking root in the pultic
mind against the schools, which have been growbigger and bigger, with hundreds, and in some milding. The physical and mental effects are The huge High or Public school." mo-
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mand for a more extended course of studies in Examination inight not be regarded as the finishing point of the public-school course, thus depleting its attendance and lowering its standard we find in the report of the Inspector of Continuation ion is called thes per capita of diovernment grants to the conassistance to the compared with the more liberal essistance to the High schools. He also points shomat the curriculum of the continuation classes the farne trothed to cheourage the pursuits of present "n and the interests of the farm home. "d study is rot says course rather inclines It farm and rural life. Not only are the examinations for matriculation into the university and but, through long force of habit and circum stances, these are made a special end in nearly all the secondary schools (High Schools and Collegiate Institutes) of the Province. To some extent, too, special attention is given to commer cial subjects. While it may be claimed with some propriety that the studies tending in these direc farmer, there is nothing in the education of the incline the student to think definitely or eves to think at all, of farming as a desirable life-work. aim of the school and the long usage of the schot to cause him to gravitate away from the schoo The present educational system, about which so much boasting has been done, is, therefore officially well qualified to testify. A. Iindoniably adds Mr. Cowley, " our secondary schools have given the student a distinct bias towards the professions and mercantile pursuits. The very ract that the graduates of our rural schools have been forced to repair to towns and cities to long-standing education, has itself constituted crimination acainst the progressive develoble dis crimination against the progressive development o
rural life." Clearly, then, the whole tendency the public-school system has whole tendency of the public-school system has been antagonistic
rather than favorable, to the interests of agriculture, tending to depopulate the country and drive Workers in a steady stream into the pursuits of the city. For these reasons, the improvement of
the rural public school is indeed welcomed, but it must not stop with the building and a continuation class: the spirit and letter of the whole
curriculum requires a general revision. It has been thought that the Consolidated School, such as has proved so acceptable as an object lesson or
demonstration in portions of the Maritime Provinces, might solve the problem in Ontario; but since there is evidently little disposition to pro-
ceed by that methor, we must take the line of
$\qquad$
the clydesdale situation.
$\qquad$ gistration thiscussion of the topic of Clydesfale vidently assumed the condition of a tangled skein requiring skillful handling in its unravelling, and will probably need to be approached in a spirit of ompromise by one if not more of the parties to the settlement. The question is handled in a
commendable spirit in his letter in this issue l,y four Scottish correspondent, who is intelligently
interested readers to his explanation, which will at least serve to throw some light on the condition of things in this connection as they exist, and may be helpful in working out a deliverance from what has at present the appearance of a dead-

## WINTER WHEAT IN ONTARIO

## While winter wheat is a somewhat less sure

 crop in Ontario than some of the spring grains, winters, to its being exposed to the rigors of our winters, occasionally suffering from alternatefreezing and thawing and other unfavorable weather conditions in the early spring, yet it is seldom that winter wheat is a general failure in this Province. The cold, drying winds of the spring of this year had a killing effect on a considerable acreage which had come through the winter successfully, a good many fields being plowed up and re-seeded to other crops, but there are many fields in some districts, now ripening for the harvest, which give promise of yields of 25 to 35 hushels an acre, which is about equal to the returns in the average of former years, when wheat was the leading crop in most parts of the fully compete with the newer Western Provinces in the quantity or quality of wheat raised, and while, owing to the less valuable bread-making qualities of our wheat, we cannot expect as high prices as the hard varieties of the West command, et our wheat always finds a ready market, at a air price, to be mixed with the Western product and it may yet be profitably raised to a limited extent, and has its place in the rotation of crops on many Ontario farms. The system of summerallowing for wheat, formerly so generally pracsince it this Province, and which was expensive, rowings in the ing two years frep raturn is the land, and waitin exceptional cases and for special reasons only the more economical system of plowing down a clover or other sod after a crop of hay has been harvested, or a few months pasturage by stock has been secured, is found to make an ideal preparation, provided the plowing is done early and is Collowed by frequent surface cultivation to hasten decomposition of the sod and conserve the moisture in the land, conditions essential to securing strong and vigorous growth of the plants and fiting and chilling endure the stress of winter freezing and chilling spring winds, should they come. weather conditions is in good heart and the pulverized and compacted seed securing a wellnot to sow fall wheat, but prepare the land for spring crop, which will in most cases prove a

In so far as the probabilities can be judged at the present time, the indications point to rather a serious shortage in the wheat crop of the world The United States Government report, issued on June 10th, indicates a probable deficiency in the winter wheat crop of that country of $100,-$
000,000 bushels. According to 000,000 bushels. According to an apparently carefully-considered article on the subject, in
Everybody's Magazine for July the Everybody's Magazine for July, the London
authorities state that the European shortage this year will be at least $120,040,000$ bushels age this pared with last year, even if Russia should comas much as in 1906, which is considered possible. The deficiency in Western Canada, a possibse ra sult of the month-late seeding season, may be 20 , 000,000 bushels, with a similar loss in India-all of which means that there is now a prospect of a possible shortage in the world's crop, as compared
with 1906, of 240,000 000 with 1906 , of $240,000,000$ bushels, unless the
spring-wheat harvest should

The Farmer＇s Advocate and Home Magazine．
thb leading agricultural journal in thb
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－ALL COMMUNICATIONS in reference to any matter connected
With this paper should b badressed as below，and not to any
indidual connected with the proser Address－THE FARMER＇S advocate，of

estimates of the less sanguine，
east，is a doubtiful contingency．
while this prohable shortage presages an in in－ bread，it is not entirely discouraging to farmers who may have wheat to sell，since the deficiency n supply logically means a higher price for the product，and already the speculative markets have wheat＂in the coming months．Whether this re－ sult be realized or not，while not advising Ontario cale，it is rush into wheat－raising on a large pect for good prices will justify sowing at least with such acreage on well－prepared land．And， has shown that well－managed Ontario farms are yet capable of yielding as heavy crops of wheat as when they were called new lands．

AN IMPORTANT POULTRY CONFERENCE found a special correspondent＇s Fongland held at University Coilege，Reading ficially，this foregathering was desinnath．Of Second National Poultry Conference，but in realit it was international in programme and attend ance．The real organizer was Mr．Fdward Brown，
F．L．S．，Hon．Secretary of the Conference，and Secretary of the National Poultry Organization
Society，Assistant Director of the Agricultural lie－ partment，University College，Aeading，Ling． he who visited America last scar，and upon his Poultry Industry in America，＂which has on two or more occasions received very tavorable mention wher welcomen as backing up the aims of was and review in＂The Farmer＇s Advocale．＂For attention to registration that here to pay closer the advancement of the utility poultry imbury uf on which registration in the（＂lydesdale spadthook，
ireat Britain，and，in fact，it is due to hhorthorn Iterdhook，has heen carticd on
deavors，for the most part，that the industr cupies to－day．The influence of the Conferenc will undoubtedly be great and lasting，and it is will be hold so that years another assemblag helped forward towards a successiul and profitable end．

service Commissioners shows the Ottawa Civil salaried officials the cost of living has increased from 30 to 35 per cent．in ten years，and for the higher－salaried officials the increase has been from $\underline{\underline{26} \text { to } 30 \text { per cent }}$

## HORSES．

## OUR SCOTTISH LETTER THE Highland show．

We have just closed our＂great national show， Capital（Edinburgh），and was visited on two days by the Prince and Princess of Wales and a dis－ Duchess of Party from the seat of the Duke and this aspect of things I have little to say．On royal visitors showed themselves to be deeply in terested in the various departments of the show， proceedings，and insured a very lent eclat to the of visitors．The showground was none the hest and it may be hoped no further effort will be made to hold a gathering of the kind on a site like that Canada and the United States，some visitors from and a number of agricultural professors，somes of whom appear to delight in asking all kinds of im－
possible questions．Fime possible questions．For example，one of them there were in Scotland．That Tlydesdale breeders I could not answer to save my life，and I would never dream of spending three minutes of my time of breeders of any class of stock．Many meetiner are held in connection with the show，Many meetings
tendance of breederg tendance of breeders from all parts is very large． ering to sell a number of Shorthorns great gath－ well－known Booth herd at Mertoun．The results only demonstrated that the days of Booth Short horns are over．$\Lambda$ very extensive trade was done
in the hiring of Clydesdale stalliins for 1908．So
far as I have been able to of horses had their locations fixed for next a scasore
In no In no case are＂fancy＂terms being given，but
those arranged should leave a handsome revenue good percentage of foals．Ie in ine at least a
grinciple is so much indand，the so much additional at a given date，unless it is proved that the mare is not in foal．Of course，
this system is scarcely so favorable to the owner
of the mare as is your systomater of the mare as is your system of＂n no foal，no
money，＂but it is an old－time custom in．Sco land，and some of the best horses，or rather the
very best horses，are terms for service anly，without fon payments of breeding from the highest cless of horses more or
bres THE CIYDESDALI As I am referring to Clydesdales，I may as Clydesdale Horse a meeting of the Council of the morning of the show week．The business which occupied most time was reading a lengthened cor
respondence which has passed between the respondence which has passed between the Secre－
tary here and both Mr．Sangster and Mr．Brant on your side，with reference to the alterations
made by your Clydesdale Association on the rules made by your Clydesdale Association on the rules
for registration of imported stock in the Clydes
dale Studt for registration of imported stock in the Clydes－
dale Studtook of Canada．We here find it rather
difficult to know what the Canadian men want When the first intimation of an alteration reached
 dians wanter，and he was asked whether the Cana－heifer Pitlivie Rosebud female champion was the the the mal，male or femal． ported to have a number here and now before which ineat her at the Royal，being placed reserve ported should have a registered sire ery animal ex－phanon（irant，of Ballindalloch，secured breed dam，and that the said regedstered sire and dam A compary yher last year was first at the Peebles Show， shold cach have a registered（that ise and dam A complaratively wew exhibitor，Mr．Reebles Show ．Wylie Hill
hire and dam
halthavock．Perth fire and dam．Although this rule would dis－female section with look chainpion honors in the stood first at whe Giasgow show in flamis，which Mr
Mr．John Championship，as at the Royal，went to
his great his great bull（Chancellor of Ballyboley，and the
lest female was Mr．Walter Montgomerie Wilson＇
threesear－old cow
 inn anarran
ever．Mr．Sangster rather indicates that what
your breeders want is that every animal exported，no matter what its and female have a number at date of exportation．should our system of registration here（not merely nde rules），it is as impossible for us to comply with Society of Great Britain and Ireland to chorthori with a similar demand．As doubtless many your readers are aware，females do not under any conditions receive numbers in Coates＇Herdbook
for Shorthorn cattle．In the Clydesdales Stud－ book neither mates nor females receive number until it is seen whether they are likely to prove breeding animals．That is to say，a colt or male animal cannot be entered for a number until he is
more than a year old．When the Studto started，numbers were not granted until the colts were two years old，but when the foreign tra
opened and exporters began to buy yearlings， opened and exporters began to buy yearlings，th
Council agreed to number such，as，of course，$n$ one would export horses except they were at
least intended for breeding purposes，and certain barring accidents，to be kept entire．In the case of females，they are not entitled to entry for numbers until they have produced at least one
foal．The purpose in both cases is to save in creasing the numbers of registered stock，by in－ cluding such animals which are non－productiv
But this doe But this does not mean that pedigreed stock can eligibility to receive numbers when they of their to be breeders；the system of registration adopted both in Coates＇Herdbook for Shorthorn
cattle and in the Clydesdale Studhook mean very opposite．The basis of registration is the breeding mare．She should be entered with all the produce she may have had，no matter whal ditional produce should be entered，and her ad this sustem foaled，by the owner of the mare．When it is an ideal effectively and regularly carried out， The editor of the Studbook prevention of fraud． ine produce of a breeding mare is accounted al to have studbook，if anyone，in after years，claims mare，all he has to do is to out of a numbered that particular mare＇s produce and the record of and color and refred to，she had a foal of the sex no record of the breeding now described．If there is then the owner of the animal which is claimed foal， claim，and the is called on to make claimed to bottom．Were this system of segifted to the parted from，and every animal numbered right away when a foal，the book would be swelled by come to anything as breeding stock and the woul valuable check upon fraud，the entry of the prod uce of each breeding mare year by year，as they volved in Society on Council of the Clydesdale Horse Association to suspendlay the opolved to ask your Association until the latest January resolution of yout we another reason．All the schedules And there is
tions for Volume hands of breeders XXX．are now issued and in the have been received and accepted on the en entries the system which has been in iorce for nearly 30 system this year，and，therefsible to alter that
comply with what wo resolution of the Canadian Clydesdale Association
The earlier one can be complate The earlier one can be complied with and the views their rule will prevent the importatione said， produce of quite a number of horses of the of the breeding and merit－the very kind which you ought
to import if you want Clydesiales and character． tain much that was fresh thr fore woek，did not con－ treed champion，as at the woyal，was Linksfield heifer Pitlivie Rosebud II．，the cow Sweetheart，
which beat her at the Royal，being placed reserve 4
AUGUST 1, 1907
 able. though liver chestnuts are not objectiondon't think color makes much difference. was that all the females in milk had been tested the result that every cow in the show complied with the conditions. It was whispered that in up to the standard, and therefore had not not been
sent forward. It was, however, satisfactory to know that all the prizes went to cows which had
been tested for dairying merit and had stood the been tested for dairying merit and had stood the
test. Messrs. Kerr, Old Graitney, Gretna, had the first-prize cow, and Sir Hugh, Shaw Stewart,
Ardgowan, Greenock, the second

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The Clydesdale section was excenty specimens. Renwick for his first-prize champhip went to Mr. Wm . Review 13712, and Messrs. A.\& W. Montgomery had reserve and first in the aged class with their
big black horse, Ruby Pride 12344, as well as first with their yearling colt which was first at
Ayr. Both were got by Baron's Pride. Mr Walter S. Park was first with his noted three-
year-old stallion, Clan Forbes 12913 . In the Mr. J. Ernest Kerr got champion honor wisplay. great black mare, Chester Princess 16371 ; first
with his brood mare, Pyrene, the champion at the Marilla, and first with a home-bred year-old filly, All of these animals were got by Baron's Pride,
as was also Mr. Robert Forrest's Jean of Knock enlaw 17643 , which led a splendid class of yeld
mares, all the prizewinners in which lut by the same sire. Mr. Stephen Mitchell, of Bo
quhan, had first in the three -year-old class with the unbeaten Minnewawa. She and Royal Re prize mare White Heather, by Maron's Pride, and Royal Review's dam was by Sir Everard, the sire
of Baron's Pride.
THE HACKNEY AS A HARNESS HORSE.
The horse-breeding industry was never in a better condition than at present. Fancy prices
are not in vogue for any breed, for nothing is more salable than good commercial horses of all classes. One of the first-indeed, the very firsteffect of the new competition is the Hackney. It The other day I met a well-known breeder from England, and after a brief examination of a few of the animals which he had brought over to Can-
ada, I began with the rudimentary question of ada, I began with the rudir
what the Hackney should be.
 said. Would not aim at a bigger, though I
would rather have a 16 -hand horse than a 15.1
hand. The difficulty is that they are inclined hand. The difficulty is that they are inclined to
lose type and quality at 16 hands and over. If quality, and get a 16 -hand hoursay still retain hat might be called the commercial market in breed for show purposes only would inevitably end
in disaster. lection. In my oppe has altered within my recol-
ity and action wow have much better quality and action now, and also more size , inal. 1.2
hands used to be considered a very good height, hand now we look for 15.3 hands and heven 16
hands. The older classes of stallions are showing more size every year."
"And then what about the uses of the breed?" ". I look upon it as a harness horse entirely,
was the answer. ". It has too much action for comfortable ride. It is all right for a mile out and a mile back, but a ride of, say, ten or twelve
miles, would shake one up a good deal. Some
Hacknove Hackneys, of course, have better riding shoulders
than others, and are higher at the withers. I like what are called the riding shoulders in a Hack-
ney, but do not claim for them that they are riding horses. Unfortunately, that type of shoulder Turning then to the prospects of the breed,
asked an opinion on this point.
I think there was never the present for good harness horses,", was the re
phe ply. "It was a general opinion that the motor
car was to do a lot of harm, but, if that is so, it
is to the lower class of animal. There has never been a better demand for a good horse. In the
long run, I think it will have done the best class of horse good. No, I don't think we want more
pacee to compete with the motor car. An increase pace to compete with the motor car. An increase
in pace would injure the fancy action. Action and
style are the most marketable qualities in the Hackney, and we must hold fast to these at all
costs. I might say that I sell a large proportion my horses for export," sell a large proportion
What about colors?
show-ring, too, white legs give a smart appear-
ance, and show ance, and show up the action. On the other hand
they are not desirable in the comer I have read that white feet do not wear animal. but have not experienced it in my stud, nor had any complaints. They are said to be more liable
to cracked heels, etc. In the to cracked heels, etc. In the ordinary market,
however, a chestnut is not so salable as bay." "Is the show, generally speaking, beneficial ?" breeder, if only for this reald say. It helps the breader, if only for this reason, that animals are
brought out and made the best of. I do not say that the influence of the show is entirely beneficial. They go so much for flash action and smart turn-outs in the harness classes that some of the
favored horses, if they got into ordinary h would be difficult to get rid of. The show horse may be looked upon as the fancy man's horse, bone for the trade. Judges should substance and the salable type, and study more what is wanter in the market. We see the same thing also in the breeding classes. In the stallion this is especially do not rected. Substance and stallion character course, above all things, a stallion must have char "Is the stallion-in-harness class a good insti-
tution ?" pened, because it encourage that could have hapstallions, which keeps them from getting coarse and heavy topped, and keeps them altogether finer.

"Chieftain" and "The Only Way.

## LAMENESS IN HORSES.

The examiner, having satisfied himself which leg the horse is lame in, must now endeavor to doubt exists seat of its cause. In and cases whered practice to remove the shoe and examine the foot carefully ; and if he fails to find anything wrong lameness is by a careful manual examination, as sisted by observing the peculiarity of action,
which will be discussed later on, as the various which will be discussed
Lameness is not of itself a disease, but a sign of it. It is the expression of pain or inability, the result of disease, accident or malformation
in the limb or limbs in which it is manifested. It may, however, arise from disease apart from the limbs, as from injury to or disease of the spinal cord, from disease of the brain, disease of the of the liver. It may exist for a time independent of disease-a mere expression of pain without actual disease, as from a stone in the shoe or a badly-fitting shoe, but if these causes of pain and tion is sure to follow. Disease much oftener exists in a limb without lameness than lameness without disease. Thus, a horse may have a diseased condition in a limb, without or other lameness. Some authorities claim that any impediment in action is lameness, while others claim that lameness cannot exist without pain, and tha where disease which interferes, with action but does lameness. For example, the fracture of a bone o inflammatory action in a joint may result in
the bones inte one by
bony deposit) of two or more bones of the joint, more bones of the joint,
which, when inflamma-
tory action has ceased, tory action has ceased,
causes no pain, but inerferes more or less
with action, causes the horse to go stiff. Again, complete dislocation of the patella (stifle bone) pain, but produces com-
plete inability to move plete ina
Pain may be generaly said to be the com-
mon cause of lameness. The patient feels the
pain either when he moves the limb or when $\mathrm{h} \boldsymbol{e}$ bears weight or $\mathbf{~ r}$
presses upon Dit. During
motion the patient enmotion the patient en-
deavors to avoid throwing weight upon the lightly or stepping
short, and hy removing
weight as far from the weight as far from the not only by using the not only by using the best calculated for this purpose-as by treading
much more at it than exercising in hand. I have
not found that it affiects the progeny." ."The Hackneys have been accused of softness what is your opinion on this point
course, like all other breeds, various strains differ and I don't deny that some strains are softer than " do you think a beossing," I asked in conclusion mal can think a better commercial classs of anithere " is substanceod is a good thing, so long as there is substance with it," was the reply. "It
depends largely on the mares." Rider and Iriver

A BATH FOR THE HORSE
Middlesex Cor one of His Majesty's mail stages in comfort and well-being of his horses in hot sponge bath after plan of giving the team a
so-mile day's trip over the dusty gravel roads decidedly beneficial. will become sufficiently in the sun during the day cool down and dry off a little he after the horses horough washing all over, using a big sponge or a cloth and the hands. It is easily done, and proves most refreshing to the horses, removing all
the dust and sweat clots. The currying and the dust and sweat clots. The currying and
brushing is chiefly done in the morning. and it is surprising how good a caat may be preserved by this means, and the health of the animals main-
pain is in the toe, and upon the toes when in the
heels-but also by throwing as little weight as heels-but also by throwing as little weight a
possible on the lame limb. Weakness lame limb.
Weakness of the limbs, either congenital or ac-
quired, may cause lameness and ingility quired, may cause lameness and inability to per-
form the functions of progression properly example, want of development of muscular fibre in the extensor muscles of the forearm, sometimes seen in foals, causes the animal to stand and walk of the foot and the fetlock pad being in clos contact, due to the flexor muscles being well de veloped and having little antagonistic power op-
posed to them, the fetlock joint is flixed posed to them, the fetlock joint is flexed, and the
animal able to move only with great difficulty gain, a horse may be lame from excess of city in the muscles of the limb, accompanied by much pain, as in muscular cramp, which render For the detection of th ing general rules should be observed. Whe followthe patient suddenly elevates during progression, the patient suddenly elevates that side of the body the fore limb, the head, as well as the fore part of the body, is raised from the lame and dropped upon the sound limb. This is called " nodding." If the lameness be in a hind limb, the quarter of sound side thrown forwards and downwards with a jerking motion, the head being held moderately steady, unless the pain be great, in which case it

The signs indicating the seat of lameness are
and (2) those discoverable by examination while alone are sufficient to indicate the seat and natter after he has eaten his his chief suppiy at night of the disease, but the lameness must be of a severe character, manifested by " pointing," stand-
ing with the lame ing with the lame leg flexed or elevated from under the body as possible toy Reet placed as much In the majority of cases, however, it is necessary to cause the patient to perform some movement, and experienoe teaches, us that a slow trot on hard ground, with a loose rein, is the best
pace. A horse may walk lame, but in most
the pace. A horse may walk lame, but in most cases
the peculiar characteristics of the lameness is
best. shown best shown at the gait mentioned. There are
cases of lameness, however as in cases of lameness, however, as in slight splint
lameness, where it is necessary to urge the to a sharp trot before any deviation from the normal gait can be noticed. deviation from t, "WHIP."

## HORSES IN HOT WEATHER

Just now, writes A. S. Alexander
the Live-stock Report, we are hearing from good many owners of horses who are having trou have the same complaint to make. They them that the horse that was all right in cold weather has begun to rub and gnaw at places which have broken out on his legs or other parts of his bod while some of them add the practice of tail and mane rubbing. In most of these cases it tranpires that the horse does not work well; does not sweat at work, Jut breaks out in a sweat on ires easily while whe in the pant tires easily while at work; has a capricious appe-
tite and his manure is mushy and offensive, or his urine thick and opaque
These horses are afflicted with " summer itch owner is to blame for and in many instances the has bought a horse without knowing his previous history he likely has had an "overhet" previous put onto him and may be sure that the trouble is chronic and incurable; but if the horse affected place for sevenal years, then the cause is in same eeding and management and better methods might have prevented the ailment. It should readily be
understood that in sumner understood that in summer time the skin is apt glands, with exfoliated scarf skin and the dust and the swaters lodging on the skin and adhering to the sweat unless grooming be attended to properly honses are "too busy " to do such work or forget to "get around to it," and about all the
chance the horse has to relieve the discomfort his filthy skin is to enjoy an occasional roll on
the grass when on the grass when turned out at night. But many of a roll on grass, sand, or earth, and many farmnature's way of enabling the horse to to cleanse his skin and free it of some of its discomfort. It commence to itch and gnaw, nor is it strange it becomes a nervous disorder so it increases, until ized by uncontrollable itchiness indicated character bing on every available phace and biting at the
sides of legs and perhaps tearing and destroving harness and dust sheets or blankets. destroying imity of hen roosts, which should by the prover at any
season be near the horse stalls Neyt chicken lice comes lack of grooming as a cause",
skin irritation in summer, and then we must in
clude dirty, sweaty harness anter noon, dirty, hot, fly-infested. hadly-ventilated
stables, where give off noxious gases, and where mamure and round doors and windows lreed flies and so pro reatment, but too often does not get valuce rit ceived. The least we can do for him, if we 1. him a clean skin, by daily grooming; a clan stable, by daily cleansing and ventilation: cluan
harness, by frequent drying and brushing : clean
air, by removing all canges water, by attention to the pondition, clean ach meal and removing all that is not consumect litter and by removing all soiled litter instead (1) day and then spreading it under him at night
and clean lungs, by allowing the horse to pastur,
at night, when possible, so that he may fill up on
God's fresh air.
Then, too, feed has a deal to do with comfort Then, too, feed has a deal to do with comfort
in summer time. Corn is too heating for summer ase. We get better results from feeding oats, or the major part of the ration, and it is best not
to bunden the work horse with a lot of hay at

## LIVE STOCK


 Try to treat the work horses rationally, and if that be the aim of the owner, he will not let the
harness remain in place at the noon hour hut will remove it for drying and cleansing ; then, he will remember to sponge the horse's mouth and eyes: cooling his galled shoulders with a soothing and water or a decoction of white-oak bark. (Note.-
Members of found nothing better for the shoulders than have ing with salt and pure water.) Then, to whe will understand that the horse worked between two others in the mower or binder is getting the
hot end of the deal, in that he is exposed hot end of the deal, in that he is exposed to the
radiated heat of his mates, in addition to the direct rays of the sun, and so is most apt to succumb, and therefore should be worked but part of the day. He will endeavor to give his horses as much rest as possible; to shade their heads
when they are at work; to work early and late and. unless in times of emergency, avoid working
during the heated and late during the heated middle hours of the day

THE CLYDESDALE RULES AGAIN
$\qquad$ your issue of July 18th, to my letter in the num-
ber for July 4th, utterly fails to answer question, "How can a Clydesdale mare imported dian Studbook under the registered in the Canaquires that, in order to being accepted which retration here she must first bear a registration number in the Scottish Book, the rule of of which is produced a foal ?", Mr. Smith's answer evades the question, and he quibbles over the difference in the meaning of the words " will " and "shall," equal to the difference between know, is simply "" tweedledee," as it surelv follows theedledum " and SHALL be accepted on the conditions named in the amended rule, they WILL be accepted under cepted," if they mean anything in "shall be acimply that, if mares imported after July 1st bear numbers in the Scottish Studbook, they will, on application, be given numbers in the Canadian
Book, and not otherwise thus givin advantage to the short-pedigreed mares importair before July 1st, inasmuch as these have already been given or will be given numbers, while those until they have produced a foal wait for numbers the Scottish Book be changed. A Toronto paper announced last week that the mover and seconder of the amended rule had sailed for Scotland, pre obiect of forcing the Scotsmen the cule, with the rule at the peril of the loss of Canadian custom Meantime, the (lydesdale breeders of Canada awai
with breathless internest sion of their hrilliant leaders. which, if successful.
will entitle them wetlurn entitle them to as grand an ovation on their
ret ferance 13 at. remembering that it was a Scots
man who wrot.. The and "the "rote." The best laid schemes of mis of these irritating parasites bradually the eve mordences tmen like facts." as the same writer savs. sots- of sheep should, during fly time fies, the noses (uthel. that winna ding and canna be dis- Common pine tar often is used to the insects. to wadd before many moons a call for a moeting
to consider a proflosal to amend the amended
rule. Huron Co.. ()nt. THREE - HORSE EVENER.
Fditor ...The Farmer's Allvocate ":



THE FARMER'S ADVOCATE
effect upon grubs that have entered the sinuses.
To get at these is a difficult matur eCOLLECTIONS OF A SHEPHERD
is to lay the affected shere un
1s.
pour one teansoctenful of of benzon its side and the
nostril, which is held in to nostril, which is held in such a way as tho allow
this being done. The nostril is this being done. The nostril is then closed of and other stock, has had hits ups and downs, its
the fingers for hall
 sheep having been turned upon its nostril, the tremes. Time was, aloqg in the seventeres. when
Fumigating with burning sulphur also is side.
the best end of a crop of ram lamls could be sold
 Valuable sheep may be operated upon with r degree of success for grouss that hat wave with
frontal sinuses. In horned shaer, the onening the frontal sinuses. In horned sheep, the eptered
is made by means of a three-quarter-inch trenhind
0 the horn may be sawn of of close the thern, or
Benzine then is injected into the sinus, and lowing it warm water is copiously injijected fo
means of a syringe to wash out the of the nostril. In hornless sheep, the places to to
trephine are found by drawing tion trephine are found by drawing a line with colored
chalk from one eyebrow to the other across the face, and running a second line down the face to
exactly intersect the middle of tho trephining places the are tocated in the th the
upper angles of the cross thus formed operate, the skin is first cleansed, and the is
dissected back from the skull, until a place suffif ciently large to accome skall, until a place suffi-
phine has been lacid bare. The e end of the treused like an auger to remove a wad-like dise of
bone, through which benzine is injected into the sinus, and arterward water is freely used, as al-
ready stated, for the expulsion of the this has been accomplishen, the srubs. When is
brought back over the trephine wound, held in place by a stitch or two, and then a pitch plaster is put over the part, and that suffices in the way
of after treatment.
The operation scarcoly in common sheep, and seldom is scarcely pays
sheep are generousiy fed sheep are generousty led upon grain and hay, as a
vast maiority of the affected sheep escape having
the gruls penatrate and in time, if well nothe sinuses of their heads, pests by sneezing and nourished, get rid of their
of the condition are the chief facts to remember in this connection during time of tily attack by use of tar mitstarep, and
tion of panch then the destruc BRIGHTER PROSPECTS FOR The two auction sales of Shorthorns, held in Western (anada in June, namely, Hon. Thos.
Geen wa, and Messr. A. \& ATHutch, besides
sour Good private sales by breeders, indicate that
the
 those that have prevailed in recent years for cat-
tle of the same catulity the of the same quality, and that in spite of the
fact that stock-raising has undergone one of the
selverest severest (usts, to Which it has been subjected for
Imany years by the extrenely severe winter the
West has come through.
Doubtless the cattle trade in Canada is benefited by the rising tid in the states, and apart from that, there appears
to be a steady tendency amony our to devote more attention to stoch-raising. Mar-
ket prices for conmmercin to towardes forcouraging this tendency, As are a lot high as has heen, whid on the peronto market for wood
butchers' cattle, and six for exporters, and that is what makes feeding attractive. When the breeding industry needs assurance The
tuen who have perssisted in raising cattle during the Years when the public appeared to the quite in-
different to the value of stock of any kind, are
deren deserving of considerable compensation. It re-
quires courage and no small amount of conlidence and cash to persist in raising cattle for the better-
ment of the general average when the country ap-
henars wars to regard the products of the stathes and
is that annecessary io their welfare
The hope class that will tend to provide meat at the least
more praise for muslin-curtain ventila TION

THE FARMER'S ADVOCATE
Founded 18.6

THE FARM.
ANOTHER TRIBUTE TO ALFALFA The Utah Experiment station has been con
ducting some experiments with feeds for dairy cows, and has added some more evidence to th value of alfalfa as a producer of milk and butter
fat. In summing up some of the experiments, Bulletin No. 101 says

To what extent can for composition, be substituted for tion that has been investigated by few ques experiment stations. At the Tennessee Station lowing rations were compared: Silage, wheat bran, and cottonseed meal; and the silage, alfalfa hay and wheat bran. The following are some the conclusions drawn from this experiment substituting alfalfa hay for wheat bran, it will be ach pound of wheat bran, and the results are ed in a finely-chopped condition. " These tests indicate that
at $\$ 10$ per ton and wheat at $\$ 20$, the saving hay Focted by substituting alfalfa for wheat bran ter and 19.8 cents for every hundred pounds of milk. The farmer could thus afford to sell his milk for 19.8 cents a hundred less than he now compared with 25 cents a These experiments show why
frequently used as a basis for manufactured been stuffs, and indioate that the farmer who can frow
it makes a mistake in purchasing it makes a mistake in purchasing artificial food-
stuffis of which it forms a basis.,
The following is taken from New Jersey Ex-
periment Station Bulletins Nos. 161 and 148 : pounds of alfalfa hay and thirty pounds thirteen silage, proved both practical and economical when fed in comparison with a ration in which wee two-thirds of the protein was derived from whea bran and dried brewer's grains. Milk was pro
duced from the home-grown ration for two-third the cost of that from the feed ration two-third of milk per hundred was 55.9 cents, against 83.9 " On the feed this
hay (timothy and red-top) experiment, when mixe hay (timothy and red-top) sells for $\$ 16$ per ton
wheat bran for $\$ 26$ per ton, and dried brewer grains for $\$ 20$ per ton, alfalfa hay is worth $\$ 24.52$ per ton as a substitute for mixed hay proportions indicated in the ration the A feeding experiment showed that the pro
tein in alfalfa hay could be successfuly and profit
ably substituted in ably substituted in a ration for dairy cows fo grains, and for this purpose is worth $\$ 11.16$ per
ton, when compared with the wheat bran and dried brewer's grain at $\$ 17.00$ per ton." understand that great value is given alfalfa in some of the American States in sulsstituting it for百

THE CULTIVATION PROPAGANDA IN ALbERTA. Alberta has been hearing the gospel of soil a Mr. Campbell, from across the line. His key is nothing more or less than the application of
the well-known fact that by cultivatig layer of the soil the moisture below is the top from evaporating and is available for the roots of plants. Many men have known this, and have practiced it more or less extensively, especially
upon corn land; but this man Camplell, living in a country where rainfall is light, and where a few pounds of moisture conserved at the roots of the plants exercise a more noticeable effect than
the same amount would in a country of greater the same amount would in a country of greater
precipitation of moisture, has become an enthus.
iast upon the subject, and preaches the iast upon the subject, and preaches the system in
season and out of season. For this reason he has season and out of season. For this reason he has
attained an international reputation, and has been lauded and land-holding railway companies real-estate men sparsely-vegetated area that lics to the eastern
slope of the Rocky Mountains in the central part. slope of the Rock
of the continent

BREAKING BY POWER
Steam plowing has been quite general upon the
pairie the last few weeks, says .. The Farmer' prairie the last few Weeks, says ". The Farmer's
Advocate and Home Journal," of Winnipeg. The Advocate and Home Journal," of "innipeg. The work that, was only considered poss.ble of exe
cution with animal traction and a hand-breaker cution with animal traction and a hand-1ir
True, the sod is not as well laid as wher turned up by a good plowman, but the time
blight in the oat - fields
gOOD Value for EXPENDITURE AT THE O.A.O.

1 have examined the specimens of oats received
 County of Wentworth; Mr. Brodie, Middecesex and from
Middlesese
The disease on all the specimens has similar characteristics. It appears as a blighting of the Outer end of the leaf (but not usually of every
leaf of the plant), and spreads along the wards the stem. As the tissues die, the color changes to a yellowish or reddish brown. I find no mark in root, joint, stem or leaf of the invarible presence of any insect. If the affection were all the leaves, as well as the of soil or weather plant, might be expected to be similarly dis-
colored. The only other causes capable of producing so widely-spread an affection are of a bacterial or
fungal nature scope reveals the presence of fungi. Two diffi culties, however, are encountered. On severa and they all belong to groups that usually invad weakened, dying or dead tissues.
The particular form most common on the where its spores and hypheo are by the naked eye blotches. This is a fungus which, I believe, has been named Fusicladium destruens. The specifi name, destruens, means destructive. The com fruit of apple trees is another species of fusicladium. In a New York State report, Prof. C. H. Peck the State Botanist, wrote of Fusicladium destruen rence County, which was visited by the writer the


Pusiclame a showing four sooty bloches. $A$, part of an oat leat.


past summer (1889)

Tree from this disease. So prevalent was it was by, and it was the opinion of the ownerged there oats were rusting badly. Upon close examina-
tion, no rust was to be found discoloration of the leaves and the fungus the described appeared. It is apparently a very now jurious and destructive fungus.
of the best mycologists in America, studied this aisease of the oat-fields, and modified his former
opinion. To quote him again report was written, this fungus (Fusicladium last disease, which has appeared being the cause of the country, and in the fields examined scarcely of unaffected plant could be found." He refers an other fungi found on the dead and dying leaves, hardly probable that spread so extensively in so short a time could hav more reasonable to suppose that it, like the other cause of the disease." ${ }^{\text {consenuence rather than }}$ He added that seemed no indication of the work of insects
$\qquad$ His description of the affected oat-fields agrees exactly with those of your correspondents. The
fungus he most strongly suspected at first is pres-
ent on most of the leaves received here not the cause, but only a concomitant of the it is ease, then I should say that we have here either a
destructive bacterium to the bacterium of pear-1)light, or a a case of with
reduction of the vitality of the ant reduction of the vitality of the oats by some
climatic cause, to such an extent as to permit the invasion of the fungi observed. The protlem is
an interesting and important one. ready have been attacked and one. It may al-
hacteriologist is far as the hearteriologist is the result
$\qquad$ districts to send you reports of thew whatrations upon this disease, accompanied with thenal sume

Allow me to call attention to the report of the
Agricultural College and Farm just published, the
amount of cash expended being not less than
$\$ 129,042.10$. May I ask in what amount of cash expended being not less than
$\$ 129,042.10$ May I ask in what way do the people of this Province receive an adequate return, or do they
receive, any? Many subjects Farmer's Advocate," but this, which is of much "The portance, is left untouched by all. Any light thrown
on this subject will. by your readers.
Wellington Co., Ont
I. MESSENGER. In reference t
Agricultural Agricultural College and Experimental Farm and and
donald Institute last justification for such a large expenditure the the on that the farmers of this Province insist on our keepi a the report figures, it may be noted on page 14 cond quoted the attendance 957 students in all departments had in these men and women came mostly from Ontario, also had students here from each of the other Provinces
of the Dominion, and from seventeen The farmers of Ontario visit es countries creasingly large numbers each year, - demand that in one institution supported by the Ontario very best of its kind, and the 31000 daughters shall be the lunch with us at the Government's expense who too this year seemed pleased with what they saw here. The Government has seen fit also to make the fees so Tho
that the poor boy can come here The result is that the revenue is correspondingly small, the Government being willing to help worthy persons, o secure a practical education at the lowest possible Another side of the question also is that a large This requires a farm is devoted to experimental worko you and your readers are aware of the benefits that
have been derived to the country by the work which has been done here in the improvement of varieties, the
distribution of seeds to the farmers. distribution of seeds to the farmers, the reports and
bulletins which have gone to the farm homes, and the
work which ork which our professors and instructors have done
hrough the Farmers' through the Farmers' Institutes and the fall fairs to
improve the agricultural conditions of the Province.
As I said in the beginning good deal in the aggregate, but it do not believe that
our farmers would consent reducing it by one penny.
CRFELMAN P President.

A WESTERN. FARMER WHO MAKES HAY CARE FULLY.
Farmers in Eastern Canada who deem it too
much trouble to cure hay by putting int
 cate and Home Journal," of Winnipeger, tells how country), he cut, coiled and stacked two hundre to the acre, with the aimothy, averaging a to himself and boy ten years old. Then, beside not done with the horse rake, but by hand, and view to making caril and precise manner, with and the haymaking machinery he used shed rain. All and horse rake, but he intends to use this mower the hay fork, attached to two poles. We often many of us are not through the country, whether haymaking, abbreviating the process therts in and therehy sacrificing quality to an too much, be saved tore are some places where labor can again, there are arestionable advantage, and then,
carried too far.

OUR GROWING NEED FOR TIMBER
$\qquad$ elegraph poles has of late assumed serious propor-
tions. $\mathrm{To}^{2}$ users of poles how best to meet this situation is of first importance.
I.atest reports of the Censucs Tatest reports of the Census Office of the United States
Government show that there were in operation
approximatele approximately, 700,000 miles of line. It is safe to
assume that assume that there are in operation at present fully
800,000 miles of line. The averame tine tont 40 poles per mile, so that there are, approximately,
$32,000,000$ poles in use. life of a pole is 12 years, Assollowing that the average - nance of the lines now in operation there are needed mous demand must sonn deplete the available supply.

Potato lugs are said to be more mumerous and Mrer treen in any district of the Dominiom. And Munitotra used to boast immmunity from the rav
agus of this pest. Verily the prairie settler had
a sroat snap

DAIRY AND OTHER NOTES FROM P. E. ISLAND

 the farm this spring, has fan ary satisfactorily
demonstrated the practicalifity and surcerss if the treatment. The work was not done under of at total yield of 3,412 pounds of luater-fat, but in
best conditions. The spraying ought to hater
 grown so high- The spray notzeles might petter
have been closer together and the messure lower

 bee copper sulphate than usual, 11 or 12 ponds
being sed to the are unstead of the usual
pounds.
the chemiche harley was browned somewhat the chemical, but looks gall right now t Under
these conditions, fully eighy per cent. of the mus. tard plants were kilied and the remainder have
since been pulled live handi Had the spraying
been done a few days earlier, and at the lower been done a fel davy earlier, and at the lower
pressure, it is bel eved that practically every mus-
tard plant up would have been killed ed The reason that the spraying has to be re
peated so many years is that the mustard seeds When deeply covered, will remain in the ground fo
years without germinating, and as the ground worked year atter year, new sceds are brought to
the surface and germinated. the surface and germinated.
which may be new to some " Farmer's Advocate
readers. the farmers came on their June excursions ago
the Ontario Agricultural College at Guelph presi gymnasium, and then station the Callege in the the doors to keep them in until he had given them a hali-hour lecture. And one of the main points pestiferous mustard plant. As he to fight the ecture to deputation arter deputation, he hecame warmer and warmer upon this subbiect, and finally. after describing the inroads the plant was making
upon formerly clean upon formery clean farms, he would burst out coats and pull out sake, gentlemen, thate off your Mrs. Mills came down to hear her husbond talk,
and, alter the farmers had departed, remonstrated
 and offend soine of those good people, ," Jhames promised to be more careful, and the next dames.
when in the course of his talk he reached the sub-
tort lect of inustard. aiter, as usual, expressing his
regret and indignation at the progress the weed
was allowed to make, he proceeded . Now . hot going to talk to you as I have tow, previous
deputations. Mrs. Mills has told me my language
des been to Strong


THE DAIRY.
ESSENTIALS FOR SUPPLYING GOOD MILK


NEVER TOO LATE.


> and at st, Prosper, Que., 32.2 pounds of fat per
cow, in 36 days. Did you catch that point? In one association
a lot of 124 cows yielded an additional 590 pounds of hutter-fat over the total product of
another lot of 128 cows in another association.
This is equivalont to forty dollars, representing the amount of hard
cash that the 128 cows might easily hound and cash that the 128 cows might easily have returned
to their owners more than they did, and that just in
30 days. A simple word thousands of simple word of advice that means armers is just this: "Get rid of the poor cows. At Warsaw, Ont., 199 cows mave a total yield during the June test of 152,880 pounds of milk, milk, within 45 pounds, was produced by 147 been milked and cared for in the warsaw need have tion to bring as much return. What a distinct
saving of energy in this hot weather there might saving of energy in this hot weather there might
be if the general average production were better The average yield increases quickly when the poor be detected, just as soon as a record is quept of


Golden Treasure

## Shorthorn yearling bull. First at Bath \& West

production of each cow in the herd. Cow regard. Some of the current records of the cow-testing
associations under the charge of the Nairy and old-storage Commissioner, Ottawa, are : 641 pounds milk, 3.5 test, 22.6 pounds fat. Highest yield, 1,045 pounds milk, testing 3.8.
Lorneville, Ont., 13th June- 87 cows 580 pounds milk, 3.5 test, 20.4 pounds fat.
sield, 1,270 pounds milk, testing 46 .
Bagotville, Que., 19th June- 127 cows average
734 pounds milk, 3.7 test, 27.7 pounds fat. Best
cow, 1,195 pounds milk, testing 4.0 Chicoutimi, Que., 26 the June- 108 cows average
728 pounds milk, 4.0 test, 29.3 pounds fat. Best ield, 1,150 pounds milk, testing 4.3 . St. Armand, Que., 20 th June- 163 cows ave
age 660 pounds milk, 4.0 test, 24.2 pounds fa
Best yield, 1,100 pounds milk, testing 41 Warsaw, Ont, 20 th June- 199 cows average 768 pounds milk, 3.2 test, 25.1 pounds fat. Highest individual yield of milk, 1,250 pounds, testing
3.4, in the thirty days. North Oxford, Ont., 2
age 1,039 pounds milk, 312 test, 33.9 pounds fat.
Best vield. 1,665 tore Best yield, 1,665 pounds milk, testing 3.0 . A summary of the tests shows the average
yield of 3,660 cows for the month of May to be yield of 3,660 cows for the month of May to be
661 pounds milk, 3.5 test, 23.1 pounds fat. ${ }^{\text {Of }}$ Of these cows, 1,663 in Ontario had an average for May of 764 pounds milk, 3.3 test, 25.4 pounds
fat: while 1,963 cows in Quebec averaged 574 fat: while 1,963 cows in Quebec averaged 574
pounds milk, 3.7 test, and 21.2 pounds fat.

dry June, hut on July 3rd the welcome rain came and we have had perfect growing weather ever since. Every few days we have a lovely warn the crops growing. Some parts of Prince Count are reporting to have a heavy crop of hay, and hope such is the case, but I can safely say ther around this part of the Island. Many thought that the hay would be all right after the rain be gan to come, but it was too late to insure a full Gould otherwise have been the lightest crop what of twenty years. The grain crop did not appea since the heat extent from the drouth, and now since the heat with the warm rains has come just
at the time the grain needed it, we can look with leasure and satisfaction on what can look with the best harvest we have had for many years. Corn, potatoes and roots of all kinds have made an excellent start, and they, too, will likely planted to potatoes missed, principally on account of the deluge of rain in the month of June, while this year not more than two hours' rain fell during winter's feed is by no means discouraging Hay will be a little scarce, of course, but if the farmers have plenty of grain to feed, with abundance of straw, and some hay, the stock will come The greatest Ong time we farmers he this Province is the and it stables. We begin stabling them in october and it is generally the middle of Tune in October, can get their living out-
The pastures, al
Though a little shorter though a littlees, shorter than we would wish to see them, are fresh and
sweet, and the cows are pulling out well, and our cheese and butter lactories are doing a big
business. Dairying in .E. I. has come to stay, and farmers intend get stick to it until they get something better
Some still go in for raising beef, but they are getting, fewer every
year. Five cents live year. Five cents live
weight is a pretty weight is a pretty good
price for stall-fed beef,
but few but few farmers beef,
make it pay even that price, and even a Was selling for $\$ 20$ per
ton, oats and potatoes reached day, but a week later
were sold The dairy industry ints. creasing year by year and yet year by year
che output o cheese and butter could easily be doubled, and it
should be doubled 1sland farms are at present contributing little or hothing, and ii we should take an average of the nilk produced for every hundred acres under culti vation, it would be ridiculously low. We do not increase the supply of milk, but there is certainly feeding of attention to the breeding, care and weeding, for there are hundreds and likewise the on our farms which do not pay their board kep well fed them would not do it even if they were well fed. Who are the men who are making money out of milk? It is the farmers who are or the patronage of a pure-bred sire; while some, on this day, think if they can save half a dollar on the service fee by breeding to a scrub they are
that.much better off. Experience has farmers that they can get scrubs enough by many the very best sire that can be had ough by using The pork industry has hardly $k$
the dairy industry in this section pace with from that be quite a shortage in and I think but there is a yone handling Yet the price this fooll The oats are looking splendid weather rank, and of a very rich-green color growing very ly due. I think, to the excellent condition partlend this spring, which worked up so well of account of so much frost last winter. ${ }^{\text {so }}$. Woll on ac-
early spring wheat is beginning to the will be a good crop. The potato buot; wheat fly are still with us, but are not so bag and horn years, and they don't need to be when Paris green
has gone up to 35 cents per pound has gone up to 35 cents per pound. Fggs have
dropped to $14 \mathrm{c} . ;$ wool is 30 c . per pound; potatoes

THE FARMER'S ADVOCATE
are up again to 40 c, and oats about 48 c ,
hay (old) from 15 to 20 dollars per ton.
Prince Co..

AMOUNT OF TIME TRIFLING

Editor "The Farmer's Advocate":
For somewhat more than two vears, ending 31st March, 1905, at which time I disposed of my farm at North Kingston; I kept records of the
individual cows comprising my herd of 9 to 11. individual cows comprising my herd of 9 to 11
The tax on ones time is trifling. My method has The tax on one's time is trifling. My methor has and weigh each cow's milk immediate drawn, and having a blackboard hanging on the
wall of the stable sufficiently large to contain 1 milkings-a week's record-headlined with th weights under the number corresponding to the cow's number, in line with the day of the week, and at the end of the week copy the record into perimental Farm for the purpose
Annapolis Co., N. S. Jurpose. JOHN KILLAM
INTERESTING AND PROFITABLE Editor "'The Farmer's Advocate ": ords on November 1st, and cannot recommend them too highly. Before that date our herdsman was taking the best care of the herd possible, but was feeding the cows that gave 700 pounds at the
same cost as those which Afterwards, he looked at the records, and fed each cow her proper allowance. If there is a shortage in any individual cows milk, we know at once, and try to find the cause. I consider the time profitably spent.
inleresting and most
L. MAITLAND.
TERSE
Editor "The Farmer's Advocate":
Have been keeping cow records two years. It takes
about one minute per cow a day o ohects are To
weed out poor cows, and to find how to feed, and how
much to feed for profit. Believe it is only way to
success. My motto, Breed, Wied, Feed.
Brome Co., Que.
Henry Cooper, New Westminster, B. C. : I am
firmly convinced that keeping records and testing is the only way to find out what cows are paying
one.

## GARDEN 攻 ORCHARD

ADVANTAGES OF CO-OPERATIVE PACKING AND SELLING
 it is proposed to substitute co-operation in packing
as well as selling, and incidentally in any phase of apple-growing that will readily lend itself vantages that will be gained by the adoption ai co-operation are enumerated by Mr. McNeill in his bulletin
Apples

1. Large stocks w
2. Unitorm packing, grading and marking will
brand or trade-mark will te estuthich a permanent 4. The cost of picking, Packing and marketing
$\qquad$

$$
\begin{aligned}
& \text { Less-common varieties will the utilizall } \\
& \text { Storing facilities will he better provilly for }
\end{aligned}
$$

8. Direct selling at the point of production

Packages will he bought in large quantities reduction in cost.
10 . The placing of the perely commercial part of the industry in the hands of compent men
whose interests are comected with those oif whim
members of the association. members of the association
11 . Spraving by power
$\qquad$ among the patrons will have cerys ibducennul stimul
work.

[^0]
## The influence ines " is seldom

ust of selling is
massion of a produce a customer a choice. It also gives the merchant
a an opportunity to sell upon sample. Nothing offers a greater hindrance to sales than new oo unknown brands. Retailers are obliged to make an individual explanation for each sale in such
cases. CNIFORMITY in PaCking and GRading the sample is the value of large stocks is lost if Hence the necessity of having apples not only in large quantities, but uniformly packed and only in This can be secured only by co-operation, when the Rmall orchards
With large quantities of any particular article uniformly marked and packed, a reputation is very
soon established, and even if the soon established, and even if the quality is not
the highest it will secure the highest it will secure a price much above small lots that are not uniformly even, though of
higher quality than the other operative method, there is every incentive co maintain this uniformity in packing and grading, and to better it if possible. Under the ordinary system of buying and selling, the whole machinery inducements for fraudulent packing and marking The manager of a co-operative concern is personaling and packing. But of more impory of mark this is the fact that he has the powertance than of the central packing-house system, and a direct personal oversight of all the work of the packers to enforce uniformity, not only for a single seato say that the extraordinary prices procured hy the growers on the Pacific coast is the result largely of a reputation for perfect uniformity in however, that the only grade shipped is at once, however, that the only grade shipped is that of
practically perfect fruit; but the quality of it
tested either hy tested either by the eye or by the palate, is cer the Fast. If there were no other inducemen in than simply the securing and preservation of
reputation for a brand, co-operation would justify
itsolf ECONOMIES IN imRVESting
 quantities to nay frown in sufticiently large the Red Astrachan, Inuchess. Colvods. For years ings have been allowed to go to waste in nearly
every orchard in Western too much to say that the only reason for this was
want of organization; but it is well within the mark to say that organization in co-operative so-
cieties would have made it possible years aro to
harwest harvest these varieties at a profit. years ago Seasons of 1904, 1905 and 1906 the Fruit Divi-
Sion has received numerous letters from growers
of these earlier varietioc coll could find no market for their fruit at a profitabit price. During the same seasons the co-operatice selling these varieties for a price Walkerton were sidered, equal to the best winter varicties. Come found any difficulty in selling says that he hats never prices. All these facts emphasize the importan of the economies which can be practiced ly dealing
with large quantities varieties of summer and winter fruit become tumder Following diredily in pachacies. comes "o-operation in uponing pa-operation in selling The cost of these is often twents per cent. Which thes contain. It is therefore of the fruit
$\qquad$
annot Nevertheless, large quantities cannot be properly assembled and prepared
shipment without storehouses and packing-4 involving the expenditure amounts of capital. These storehouses and lirg ing-sheds have not been provided at the point shipment under the present system of buying and selling apples, and it is fair to assume they never uildings. The tanding the importance co-operative system. It is one of the best dences of the permanency of this co-operat house and packing-sheds in the exsellent storeassociations, and it can be taken for granted older ample storing facilities will be a feature of every SELLIAG Closely connected with this matter of point of production for this method of doing business. It is desiraid That it the grower and for the fruit merchant the fault of the broducer cannot be expected to travel he frunt merchant volving large expense, upon the mere chance ingetting something that will suit his trade. He iormly-graded goods. packed inge quantities of unidesignated by thoroughly reliable erarackage These cannot be furnished under the grade marks em of apple-selling. It can be accomplished sy the co-operative associations sell more than hal uct directly from the packing-houses, receiving the cash before the goods are shipped. Fresit is the
perishable in its character sary to deal with it on a somewhat becomes necesfrom ordinary staple commodities different hasis moved from the original packing-house. without is definite agreement as to the price of it, the ship,
per is at the mercy of the per is at the mercy of the consignce. It cannot
le held at the market end Can the representations of the dealer to few cases is consigned be effectively examined the whom it
has simply to accept whaterer tho sellor Tence the necessity of having all suler remits the shipping station. because it is omply then thatler it It that point the actling can terms of equal iruit. The buser is equalls the condition of his
inse an offer without rumning risks with or reCo quality and condition. The co-operative meth
$\qquad$ability arsing in oi common olservation that
$\qquad$ utilize the highest abpility, of hethods that we can Timectal line. The ability to grow excellent fruit and it is quite possible the contrary to sell it True with co-operative organization cenables the
man with the alility to sell iruit and to manal end of apple-growing. lake charge oif the busingess the growing of iruit to follo the ot thers skilled in may not seem important at first sioht bent. This is a marked the apple industry hows that there
$\qquad$
$\qquad$
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$\qquad$
advantage of every opportunity to induce tion as a manager is at stake, and it is thereft easonable to suppose that the abilit. whi
laced him at the head of the association will xercised to improve the product of the organi year. Of necessity, he suffers from the mis year ach, but the nature of the business makes him ample opportunity to admonish and advise INFUENCE OF THE BETTER GROWERS The manager will not be alone in striving mprove the prodp of his hest patrons in the help cral improvement of all. The reputation of the fruit and the price following it depends in the last
analysis upon its quality. If, therefore then patrons who grow good fruit can improve the quality of their neighbors' fruit, they are directly benefiting themselves, which, considered with the fact that they are benefiting their neighbors, bement of the product. It is not remarkable there fore, that there has been a very great improvement in the fruit grown by the members of the
erative associations already established
erative associations already established.
The benefits which have accrued to interests by the adoption of co-operative methods have often been cited. Although it is true that Canadian dairymen have in a very large number of
instances, indeed, departed from the true co-operative principles, they have adopted the best meth-
ods of these principles in the fary making butter and cheese.
FRUIT AND DAIRY PRODUCTS Co-operation in apple-packing corresponds
cheese and butter making by the factory system and may be reasonably expected that the same and dairy industries have many things in common. Both industries are incidents of the system
of mixed farming likely to be followed in Canada. It is hardly conceivable that milk will be produced at one point in large quantities, on a scale
comparable to the manufactures of wood and iron.
Ten, twenty or even Ten, twenty or even thirty cows to the farm may
be kept with profit. More than this will be kept with profit. More than this will require
a rare combination of skill and favorable condi a rare combination of skill and favorable condi-
tions to yield a dividend. It is equally certain that the small apple orchard of five or ten acres
will be the rule in this country, although it must will be the rule in this country, although it must
be conceded that the large orchard is more likely be conceded that the large orchard is more likely raw material are liketndividual interests in th therefore, cannot profitable follow their finished product to a distant market. There is, then, an operation, which has been acted on in the case of

dairy products, but only to a small extent in CO-OPFRATION IN OTHER LINES The co-operation movement cannot be stoppe tainly, to nearly all the work will extend, cer apple production. It has already developed in the direction of co-operative spraying, co-operative co-operative buying of packages. It is, therefore confidently to be expected that, where co-operation in the apple industry has proved successful, it | will be a comparatively easy matter to introduce |
| :--- |
| co-operative methods in other lines. There is | co-operative methods in other lines. There i

still much to be done in perfecting the co-opera tive system in connection with dairying. The
poultry industry is one that might be developed Poultry industry is one that might be develope
to enormous proportions in Ontario, in connection
with fruit-growing and dairy interests: and yet it is alno iost impossible that the poultry industry We.t.tive methods in the selling of poultry products, as well as in the development of poultry
tock. Having developed the true co-operative pirit in these branches of farm work, where co-
peration is comparatively easy, we may the hope for co-operative methods in bacon-produc in the quality of the product, as well as in the
profits to the farmer. Valeve of ORGANIZATION.
The successful orchardist that always sells better than his neighbor, sometimes hesitates to
throw in his lot with his less-progressive neigh-
bor. He feels that thy averaging with cuch he is lor. He feels that by averaging wisth such he is
lowering the price to himself. Such is not often the case. As a matter of fact, his less-progressits, and possibly of the relative morits of his
wn products, is an easy victim for the shrewd miver, and sells his output often below the market alue. After a few actual deals of this kind have
b,een closed, it is almost impossible for the best sellers to realize proper prices. Every well-in-
irmed grower has had experiences of this kind,
inhich empharize Wich emphasize the fact that the only way to
salesmen. Thus the growers who lack the com-
mercial instinct are protected irom the wily ways
of the apple-buyer, and the best salesmen will be
able to improve his prices.
The members of the co-operative associations in
Ontario sold the greater portion of their crop for
1906 at $\$ 2.25$ per barrel. Many of the outside
growers did not succeed in selling their earlier
varietios at all, and on any sales they did make
they did not secure more than $\$ 1$ per barrel, the the
equivalent of $\$ 1.50$ free on board.
one apple
buyer reported that he had secured two thousand
barrels in Southern Ontario at fifty cents per
harrel.
(he only explanation for this is want of
organization among the growers.
ORGANIZING AN ASSOCIATION.
To organize an association is a comparatively
simple matter It is expeted, of course, that the
whole subject has been discussed in the neighborhood, and that the expediency of organizing is usually held, for the purpose of selecting officials The officers that are usually appointed are a presi dent, vice-president, secretary and treasurer, to the office of secretary and treasurer is combined office of secretary and manager, It combine the that all the officers should command the confidence of their fellow fruit-growers. Perhaps the most difficult office to fill would be that of manager nevertheless, it is a matter of experience that men
who have made a success of their own business by generous methods do not fail when they are placed in charge of a co-operative association. Having decided upon the officers, the next step is to secure
incorporation. The exact steps for this purpose
Ther incorporation. The exact steps for this purpose
will be somewhat different in each Province. The secretary should write to the Provincial Depart-
ment of Agriculture asking for information with

n the Umlaas River, South Africa. Kaffirs in Everyday Costume These are the fellows who do much of the handling of meat imported into South Africa. and sent sometimes hundreds of miles inland. In regard to them,
Mr. J. A. Kinsella, in his report, "Agriculture in Other Lands," says: "I have Mr. J. A. Kinsella, in his report, "Agriculture in Other Lands," says: "I have
seen labor of all kinds in many parts of the world, and I am of the opinion that the dirty, oily, half-naked, strong-smelling Kaffir is the most undesinable
man on earth to be allowed to handle the fresh or frozen food eaten by white reference to the incorporation
associations, and he will receive
 + GRADES解e (sometimes called three grades, namely : prime, determining the grade, color is the chief requisite In of course a clear, clean white is the most desirable color. Size of rings is a secondary consideration,
though fair size is expected in the "fancy" grade. There though fair size is expected in the "fancy" grade. There
is, however, no fixed rule for determining whether a
box of apples is in fact entitled box of apples is in fact entitled to the grade mark
under which it may be aftere under which it may be offered; the only standard is a somewhat vague one, set by the packers themselves in
competition with one another competition with one another. That is to say, if a
certain shipper's "fancy" or "choice" is inferiar average of the same grades shipped by his competitors,
he will very quickly he will very quickly lose his reputation. Grading therefore, though not artificially exact, must be care
fully attended to, and the standard observed fulty attended to, and the standard observed season
$\qquad$
The packing must, of course, be carefully and neatly done, the package being substantial, and completely
filled $\begin{aligned} & \text { with fruit. In }\end{aligned}$ I am given to understand that filled with fruit. I am given to understand that
"facing" is allowed and even expected that is to say "facing" is allowed and even expected; that is to say, particular care so as to be be atted to be arrange, and the quality of fruit used in it may be somewhat superior to thatity through the package. What is not expected is that
"fancy" fruit should be shown
such as have sometimes noequarters or odd scraps,
attractive "tace" sot ane
SETTLEMENT OF DISPUTES
opinion between the packer on onestion of dide of the Atlantic and the purchaser on the other. Under the present
system such diferences are usually system such difierences are usually adjusted by the the
broker through whom the order was placed. Questions regarding grading, packing arder was placed. Questions
anteed withint (which is guaranteed within 1 per cent., are thus settled between two
parties in the same city, rally gives the parchaser t tuch graeater confidenco in tut
the tag.
prićcs.
ported ay form the last seven years is $r$ cwt. (112 pounds), c.i.t. Bristol, for "Prites. 30s. pe
 in seasons such. It will be readily understood tha sumption is restricted, while in cheap seaspons the trande
expands to expands to an extraordinary degree. "Fancy"
retail at anangs pound. ${ }^{\text {at }}$ about 5 . d . a pound, or in cartons at 6d. a
Wholecored
frequently bring
Td the Newtown Phicored frequently bring 7 id. retail, but
the Iore Christmas, often bring as much as a.d. a pound
If a similar quality could te landed earlier, it wouldid - canadian trade. Cracticalian packers are at present. as above indicated practically unknown here. To get an opening they
should negotiate through reliabie brokers and endeavor to secure trial orders, which I am assured will br
readily placed, if satiestict If such trial orders are found to compare faverably. quality, packing and appearance with supplies from Nowe
York stact the result will be be pormers are sure to follow, and It need hardly be a permanent trade of great valu
It not observed, it would be bettrer for Canadian packer
not to undertake an export trade to Great Pritain

## HORTICULTURAL PROGRESS

Macoun, Horticulturist, Central Lixperri inental
Crankerry cultura in cañada.

Last autumn when in Nova Scotia the writer visited
several of the cranberry bogs in the and was much impressed with the growing importanco
of the cranberry have for a long time been strong advoca enthustasta berry growing in the Maritime strong advocates of crau
standinces, and notwing many

 so frequent in the future as they have been in the the
paast.
There are many places in Canad berries can be grown muccespestally, ind anada where cransteady and the prices usually good, there is an increas
ing number of enouiries reand appetizing truit. enquiries regarding the culture of this
 Bishop, of Auburn, N.S., one of the winter, Mr. J. S. S. Sost growers or
cranberries in Canada.
 called "A glimpse of the cranberry situation," which is
really a summing up of the past experience in growing really a summing up of the past experience in growing
cranberries in Nova Scotia, with the outlook for the
future One of the dificulties in growing cranterries in the
Maritime Provinces is the danger from nutumn frosts. This danger has been overcome to a large extent by
the discovery that a light litter of canse
 sufficient. This covering can be antlied to the the vines
just before a frost is expected, and allowed to
through the rest through the rest of the season The berries will ocon-
tinuu to trow and ripen for some three weeks or longer
thus extending the ter a larger and much better quality of truit.
 improvement over picking by hand By means of a
large scoop the berries can be picked quickly, and at a
cost of not over 10 cents
 for the picker in the fall, with an trimmed and fitted
 the same direction all ver the bog the coros lines itralt
are cut, ammitting the easy working of the picker or
scoon in the scoop in the same direction. This pruning is goor for
the vines, causing a more vigorous growth year. The great importance of sanding the the next has
been learned by experience. It the bog is not kept well sanded it will soon deteriorate. About half an
inch of sand every two or three years is nocosent keeping the bog in shape for a crop. A bog that is
properly sanded rarely suffers from fall frosts, ha the properly sanded rarely suffers from fall frosts, at at the
sand draws the sun, causing the vines to fower earijer and maturing the fruit more rapidly than when no
sand can be seen.
izers is a good pancty application of commercial terti-
rels of cranberries marketed
1906 , which sold $\begin{aligned} & \text { rels } \\ & 1906\end{aligned}$
 very proftrablo ofruit to grow, notwithstanding tailures
$I_{n}$ his concluding
 opened our eyes to the fact that all over the Canadian
Northwest there are cities springing for a supply of cranberries.
we we had orders from Hinnipeg for several carloads that
we could not fill leecause we had Cranberries are grown wad not the fruit." Edward Ispries are grown very successfuly on Price
Domind in every other Province of the
 places
extent.
No systematic experiments in cranberry culture have Stations in on by any of the Government Experiment what knowledge we possess has the writer knows, and from the experinece of of private individuals, and trom from experiments tried in the United States, and from the consin, where large quantities of the state of wisgrown, there is a quancties of cranberries are being
This association has durbery-growers A Association. in conjunction with the wisconsin Experimears worked at Madison, Wis., and some vasiuable experiments have
been coriducted been conducted. The results of some of terimes. ares have pive
in the annual report of the wisconsin Experiment Station for 1906 .

## wisconsin experiments.

ference in temperature two inches to determine the dif
cranberry marsh which was sanded and had weeds and grass, and one
 there were weeds and grass than where there was sand thus be better secured themselves against frou would the difference sometimes being as much as 9 degrees. the trade would soon be upon a far more healthy basis.
This is important information, as a degre or two in may soon take a step forward in this direcemperature may mean the losing or saving of a crop
when the nights are cool. A fertilizer test has been

[^1]eggs, I regard to the origination of or two parties that 1 had heard some time ago of one I believe to be the first move in the interests paper, poultry, and would like to see better deeply interested in ho devotes his attention better profits for the one public the 1 am also anxious that the consuming article ine privilege of procuring a high-grad wholly depend upon, and feel that it is right in can sense. There are people who will pay well for this obtained by allowing the hens goor flavor cannot be in the stables and hogpens. Now pick up their living stamping is the solution $\rightarrow$ Now, I am convinced that the producer's name, farm wame, or trade an Act it about is the question. At first Ho lation should be avoided the best means; but legis aws means too many officers, and a lack of enforce
ment. It is but to bring about the system simply people to stamp in prices in favor of stamped goods. If a producer will not guarantee his goods, let him take a lower
price for same. rice for same.
The purchasers bring about the change. If the matter were to to See the arlvantage to them, and no doubt they would
pay a little more for a guaranteed article. They would HENRY.
 much as that which has received no fertilizer, and more cons set forth. An objection to the ouse of an indelitble
than plots receiving nitrates or
 insects With which the cranberry-grower has to condestroy it. It was found that if the temperature to
the water was
being "water-soaked" 65 degrees the fruit suffered from
belt flooded for twe ity hour jure the fruit in in 35 hours. The or vines were flooded to remain alive where bogs were flooded and foumd were submerged for twenty hours, but when submerged
thirty-six hours thirty-six hours they were destroyed. This also dofoliage. Fxperiments were tried to destroy the the Worm and fire worm by spraying. On July 7th, whe
the plants were in bloom, Bordeaux mixture and lari green were applied very thoroughly, at the rate
about ten barrels per acre about ten barrels per acre; the formula being copper
sulphate, 6 lbs.; slaked lime, 6 lbs.; Paris green in water, 50 gallons (wine measure. . Though in full
bloom when sprayed, the spray did not interfere . Thul rather favored the setting of the fruit,." Another "bly
was sprayed oo. July 18 th, when about 10 per cent.
the fruit had the fruit had not yet set. The experiments in spl. of
ing were very successful. The plants and fruit "wore
found surrounding areas being affected." A sucond a anplica-
tion was given on July 19th. Another cexpriment tried at the same time also gave very marked results
The fact that insects can be controlled so reardily by
shraying makes it much easier to grow cranherring such sinraying makes it much pasier to grow cranherries suc
cesssully. as flooding is not always possible at the right
time. Some experiments with kerosene are in progress, to
determine whether the worm will be destroved by flood
ing for a short then covering the surface of the water with keroseme.
and drawing off the water. It was found in the initial

<br>NEW POULTRY-BREEDERS' ORGANIZATION e organization

ONTARIO VEGETABLE CROPS
$\qquad$

> POULTRY AT MACDONALD COLLEGE
$\qquad$ lege. Ste. Anne de Bellevue, Que., experiments ar
heing conducted the hens. About 21.500 eggs laying qualities of 250 hens in the seven months wending collected from an average of 86 eggs per hen, and the individual
hens have varied from About 1.400 chickens have beens to about 145 The Poultry Department at Mordonald appears to be very provocative of jocularity. Prof.
Filford has heen refuroted The institution to produce eggs with handles of flattened at one end. A young Englishman in the
Poultry Department moultry Department told us he had one day Tut it back under the hen. Presently laye and finst told that he he with a party whom he had the point of marking her owne hen educated up to to stop at this very nest, and, taking out the around a A A professor was one day showing quoting the number of eggs laid laid of Maine, and If forget how have one down in Maine Macdonald afear," said the lady, over a thousand eggs office of Prof. Graham. Ontario Agricultural Col
lege. Ciuelp, on July 18th, and formed an On

Iario association | association. The name is the with the American |
| :--- | the American Poultry Association. Among those

present were Messrs Aranch of for green truck from Fssex County excerds the sumand ly,
and many new Ereenhouses soon will be built for
cucumbers and (Messrs. Daly and Dill: L. H. Baldwin cooking well in the vicinity of Hamilton and Toronto the Canadian White Ronadian Rarred Rock Club
The potato
 carrots and bects are doing well, and will h, prarsnifsel (The oblect of the new association is to secure there will be a large cron of celery. The onion crop the American Pers a woice in the deliberations of


search "Was perhaps the most important, cussion. It was realized by oull during the disgiven to the industry in this country is support ander that which is accorded to it in other lands Up to the present, all experimental and research private individuals who have had to find on time and money for the purpose, but the time has surely come now when the Board of Agriculture
must realize that the poultry industry is an im-


Incubator House at College Poultry Farm Theale, Reading, Eng Showing ventilation.
portant branch of agriculture, and that they mus willingness is shown in a measure by ment. Their of three of the leading men oi the Board presence culture at the Conference. Both Barties of Agri State are agreed that steps must be taken at once to repopulate the rural districts of England; to work is scarce and conditions most detrimental to he health of the nation, and, by giving them on the soil, make the land tion of the popula
ment The establish
ment of small hold-
ngs is the on 1 ,
solution of the diffiulty, and it is undoubtedly a fact that play a very impo tant part where such system is carried people Even though the land, they must be taught how to make that land give
them a return their labor, and it is here where the work of the Board should lie. We believe that
England stands most alone in this respect; the Govern-
ment of every other the world has already


Part of the Rearing Ground, College Poultry Farm, Theale, Read ing, Eng
ustry, and no matter in ciated itself with the in in Europe, with Denmark and France we look
the list; to Russia. Sorviar United States and Canada-the and Roumania be" give every help that is possible to tors that this the most important minor branch of the great agricultural art.
The first impression that an outsider receives when he learns of the enormous vatue of the an nual imports of eggs and poultry into of the an
ain is that, since England, particularly, is one the most suitable countries for poultryykepeng sat cause of failure on the part of the producer to
satisy the demands of the markets must he due
to something other than production. every reason to believe that one great cause is
failure is that the question as yet been properly understood. In In the commer
cial section. some instruction
and cial section, some instructive papers were read
relative to this question. After Mr. Final
Braw Brown, F. L. . (Hon. Sec. of the Comference). had given particulars as to the "World's Pro-
duction in Eggs and Poultry," Mr. Verney " (Organizing Secretary of Organization Society, discussed the " 13 ritioh Fegg
and Poultry Trade, and Poultry Trade." As an offset against this,
some statistics were given with regard to the do velopments which have taken place in the Tran vaal, and the question of "Co-operation in Rem tion to Marketing in Denmark and Britain deat whith, respectively,
Copenhagen,
Mr.
and Mr. E.
G.
with A Cold Coldstructive section was that dealine Major Norton, D. S. . O., South Australian Gov ernment Agenc, and Mr. H. C. Cameron, New Narton, after referring to the nectively. Major
country of finding in outside market for the poulThe poultry farm is primarily intended for eduas a commercial farm, consequent and is not run

degreests in the value of chilled eginion there were farm can be adapted for the purpose in given the eggs well chilled gradually to a tem- houses are used extencively as the farm portable perature of 33 degrees $F$. to 35 degrees $F$, when birds have the advantage of fresh this way the perfectly fresh and infertile, and then raised in temperature gradually before being used, after boiling, frying, poaching, and all culinary purposes, as the day they were put in
The closi FINAL SESSION
The closing session was held in the College Hall, with Sir Walter Palmer, Bart., in the chair passed, and, after votes of thanks were passed and the promoters and worker, the Conference was
brought to a close

COLLEGE POULTRY FARM AND EXPERIMEN STATION, UNIVERSITY COLLEGE, READING, ENG.
In view of the Poultry Conference at Reading
Eng.;, specially reported for " The Farmer's Advocate, ", elscwhere in this issue, a few notes about connected with University College, Reading Station will be of interest. In 1895 a commencement was made on a small scale at Reading College, to give advanced instruction in poultry-keeping, and from
1896 to the present, poultry courses held at the College, and a large number of students have passed through, some number of stuhold important positions both at home and in theoretical, but in 1898 the College Poultry Farm Theale, was established. The Farm is five miles rom the town of Reading, on the old Bath Road and is situated in Kennet Valley. In addition to dom, there have been pupils from Canada. South Africa. New Zea'and, France, Germany, Holland, students trained er counlices. The number the same time advantage of resh ground, and at manuring and cleansing the soil.
The lectures are given by various members of istry of Foods," "Anatomy and Fmbryo "hem "Soils," and "Bookkeeping." They to give a broad basis for future work and a wide conception of the possibilities of poultry-keepin as part of the agriculture of the country. It has
always been the main idea to develop poult a branch of agriculture, as much as a separate ndustry.
The breeds of poultry maintained upon the larm of writing they consist of Buff Orpingtons Sussex, White Wyandottes, White Leghorns, Aed
Black Minorcas. Formerly, Dorkings were kent but the ground was found a little too were kept, tsom. There are several lots of Aylesbury ducks the cotegem ducks, of which a specialty is made of poultry-kse being very favorable to this branch of the experimental work several feature is made ing now in process. The reports published ty beened of Agriculture and the College have awakand abroad. The Instructors are as follows: Lecturer in Oultry-keeping, Mr. Fdward Brown, F. L. S. and Secretary of the National Poultry Organiza
tion Society. and Pociety: Assistant Lecturer in Aviculture holds the Certificate in Aviculture : and the whi ness arrangements are in charge of Messrs. T. and The following are the leading buildings upon farm: 1. Winter Brooder House
§, wherein an experiment is is house for chick ens, wherein an experiment is being conducted o the dry-mash hopper system of feeding.
3. Range of Scratching Sheds.-Of these the are eipht, two accommodating twenty-five hird each, and six smaller in size intended more for
breeding pens. In each there is, first, a roosting-place : smaller house
thend. a sep arate laying house, and, third, a covered scratch
ing shed ing shed. In front are the usual gravel runs, 20
feet in length. a nd for each three houses there is :
gross grass run 100 feet in length. The latter are
cropped for hay and planted with fruit treec 4. Hatching Shed and Feeding Cages.-This is inside the shedl. and arommodated in boxes placed inside the shed. and are brought out once a day
and put into the feeding cagus in the the side. where theeding cages in the lean-to at 5. Inculator House-This is a large and well-
muilt house. It is 33 feet in length by 16 feet
in width dividod in width, divided into two compartments, the in-
culator room, 28 feet by 16 feet (egg capacity up-
wards of 2.00 ) wards of 2 ,on(t). and a smaller complartment, used
for stores, and where the special attention where the lamps are refilled.
sation drawn to the systam facimel lation. designed for the purpose of supplying venti6. Plucking and Trussing Shed.-There is
 requirements of students. There is a numter oi partition folds hack making one long room the tore permanent buildings in connection with the farim the students are taught trussing of fowls. for
which are utilized as far as possible one shecial tabloc heing not to set up what may he obsicet which special tables are provided. In front the pensive homes andlay appliances, but rather "o show ex are whacding in the ond and rages at side. The hirds


$\epsilon$


ALGUST 1, 1907


 outside, and, as the house is
eeasily bo moved to fresh mrow










 in four houses. System, - In the lower field the
 13. Fortable Poultry
can easily be mover theses.

 the morning as then the yike, also coming out in
deal of labor but is moish othis saves a $a$ great deal or alatr but is more costly in investal a great
Several of these houses are fited with a simple arrangement for raisises are fited with a simple wheels tor removel

THE FARM BULLETIN. HAY, SPRING GRAIN, FODDER CROPS, AND RYE

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THE FARMER'S ADVOCATE
us through the winter, and instend of taking advan
tage of every opportunity to get all the seed into the
 to indulge our optimistic spirit, and hope that nexi
season may do beeter for us than the past one. There is another crop, not spoken of of one. seldom
read about and very seldom seen, that it mould
 there is yet plenty of time to get ready. We refer
to rye, called in Firrope whe Lo rye, allled in Europe tho poor man's crop. Sown
the last week of tugust, or up to September 1oth, it can be pastured in early winter, when there is not a
green bite elsewhere, and can also be fed to some ex
tent before the other tent before the other pastures are ready in the spring,
and afterwards cut for hay, and while the
 very good substitute. We hope to see all our farmer
give it a trial the coming fall.
ipi Pictou Co., N. S.

## the fly plague

The ay pest is a serious loss to every farmer with
cows. cows. You can figure the loss in milk at from two
to three dollars per head per month, saying nothing and what they lose in flesh. A farmer may feed
liberally of chop, and yet the cows will shrink anywher case, if to 15 lbs . per day. It should not be the case, if we could get some means to keep down the
flies. Anything I have tried cost too much and Considering the time it takes to rub it on, and the
cost of the stuff, it is a losing business. want is something that a couple of hasds . What we in a very few minutes. In the busy season time is hold of it, and assist us in finding something that cheaper and quicker than anything yet advised.
think $I$ am safe in saying that every farmer cows loses more than a hundred dollars in a season We lose far more than we really realize. Will you bo
kind enough to call the Government's attention to tho fact, or assist us in any way that you know of to the [Note.-We shall be pleased ARCHIE McVICAR. authorities of agricultural colleges and experlmental farms, as well as commercial farmers, who may have
found a cheap, effective and unobjectionable means of
dealing with the fly pest.-Editor.

DEVELOP P. E. ISLAND'S ORCHARD RESOURCES
A. McNeill, Chief of the Fruit Division, Ottawa, said to
a representative of the Guardian, Charlottetown, P. E,
I. . I see that you have organized a 200,000 , will fall right in with their object. Lhet and I think spring spring. orchards of 10 acres each. 50 trees to the acre,
200 orchard of 10 acres will give work and revenue for one more family
on the farm. sons to the family, these two hundred orchards will
then require at least one thousand additional population. This will be something for the 200, ooo Club to
start with." Mr. McNeill said he would be co-operate with the 200,000 Club in organizing a campaign among the farmers to secure this additional
population to the Island. One great advantage of this scheme would be that it could be carried out with out interfering in the least with
scheme that is now in operation.

## GRASS A WEED IN THE ORCHARD

$$
\begin{aligned}
& \text { Mr. A. McNoill, Chief of the Fruit Division, Ottawa, } \\
& \text { is reported to heve said at a } \mathrm{p} \text {. F. Island orchard } \\
& \text { meeting in referring to the orchard of John Anear, } \\
& \text { Lower Montarue. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { the best parts of Annapolis Valley or Southern On- } \\
& \text { tario. The trees are well sprayed, well pruned and } \\
& \text { trained, and are most admirably clean." He pointer }
\end{aligned}
$$

$$
\begin{aligned}
& \text { tario. The trees are well sprayed, well pruned and } \\
& \text { trained, and are most admirably clean." He pointed } \\
& \text { out to the audience that there was no grass to be seen }
\end{aligned}
$$

$$
\begin{aligned}
& \text { trained, and are most admirably clean." He pointed } \\
& \text { out to the audience that there was no grass to be seen } \\
& \text { among the trees anywhere, and that where crops were }
\end{aligned}
$$

$$
\begin{aligned}
& \text { among the trees any where, and that where crops were } \\
& \text { grown between the trees they were all late starting } \\
& \text { crons and all kept scrupulously clean: no grain nor }
\end{aligned}
$$

THE " IDEAL BUTTER SEPARATOR discoveries and not supplies us with many wonderful utilize the valuable discoveries failures. To discern and equires a degree of soundent, fortified by ful reading and study. Fortunately, there are ous experiment stations, wortunately, there are numer ions aiscriminating journalists quick to detect imposiAmong the many fields open to exploiters of ques tionable apparatus, the buttermaking industry seems more thian its share of such humbugs as dilution cream separators, Cole's hot-air process of making butter withmatter into fat, and the like, regarding which for years our readers have been kept well posted.
The latest contrivance in this line is an apparatu called the "Ideal Butter Separator," manufactured at tion, which will produce a maximum quantity of pure butter from sweet or sour mithe and cream in five to
ten minutes., ten minutes." After giving a description of thie ohurn
or separator, as it is called, the printed circular ad vertising the machine proceeds to explain the process in the following language: "The butter dis separated
by the combined action of the agitation and the aeration of the air. The air is sucked down
from the cream, where it is distri the bottom of the milk or bubbles up, causing the separation of the butter
The "advantages" are set forth as follows
" 1.- More butter is produced from a given quan-
tity of milk or cream than by any churn. This is be cause it separates the globules of butter from the cream
without breaking them. The old proces up by the continued friction produced by agitation. $\therefore 2$.-The butter will keep better, since it is pure and has been thoroughly aerated. It has no mixture used " 3 .-The residue is. pure and sweet, and may be
"4.-The separation is more rapid than any other separator, and the air introduced is always pure and
does not bubble through more cause not bubble through more than once. This drawn from outside the vessel. it with - The gearing is simple, and a child can operate t with safety. No cogwheels to catch the fingers. It is not possibile to albumin or impurity in the butter. It is not possible to remove these by any other process.
The ordinary churning beats the butter-fat into an oily
mass, containing all the impuritios mass, containing all the impurities, such as casein and
albumin. The Ideal Separator causes the butter gloumin. The Ideal Separator causes the butter globules to form separately and cohere together. The
butter will thus not become rancid and smell offenIn order to ascertain how far the claims made for of tests have been carried out by Frank a serie Chenist, Experimental Farms, Ottawa. In making the eests the printed directions were followed, cream and tion, so far as the buttermaking was concerned, was conducted at the dairy of the Central Experimental Farm, the work of manipulation heing left entirely in , The results showed that with sour croam, there was an excessive loss of butter-fat in the buttermilk. Buttermilk ordinarily
contains between . 1 per cent. and 2 per cent. fat. In four out of five trials with the "Ideal" it was between 1 per cent. and 2 per cent. Owing to the proportionately large amount of buttermilk in these trials-due to
water added during churning-the real loss of fat is much greater than is indicated even by these high percentages. In the case of the sweet cream, out of 128
ounces of fat in the cream, 9 ounces onnces of fat in the cream, 9 ounces were found in the work the loss would not exceed $z$ ounce. That is, the loss of fat by the "Ideal" method was twelve times as great as with an ordinary churn. Bad as this is, the
showing was much worse with milk, both sweet and the total fat was lost in the buttermilk, and in the sour-milk test, one-fifth was lost. A partial explana-
tion of these heavy losses was due temperature (about 70 degrees) which the operator cong sidered necessary for the successful operation of his machine. The temperature of the wash water he ued
was also high. The water content of the butter was dangerously near the legal limit, and in one case ex-
ceeded it. Analyses show that, contrary to the manufacturers' claims, the butter is not free irom curd.
In addition to the loss of fat in buttermilk and wash water, a certain amount is lost in the apparatus,
for, owing to its construction, it is imposible to remove all the butter from the mechanism of the churn. The total loss of fat was almost $2 \%$ with the sur
cream ; with sweet cream, $9 \%$ with sweet milk,
$33 \%$, and with sour milk, $34 \%$, or practically one
" "In conclusion," writes Prof. Shutt, " so far as our investigation pives proof, the only claim made
good is that regarding the time of churning. The
$\qquad$ nary or orthodox methods of buttermaking, and which
have been examined in the farm laboratories during the

THE FARMER'S ADVOCATE

WINTER INJURY to APple trees
Apple-growers in Durhand County have been alarmed
of late at the mysterious dying of large apple trees a number or orchards. In the orchard of Mr. Charles
Axtord, of Darlington Township, which was of thrifty twelve-year-old trees sust beginning to bear
heavily, the trouble first showed itsolif last year two or the trouble dirst showed itsolif last year, when
the trees atere an titien leaning out. The rest of
the the ores bore an exceptionally heavy
year two year two or three dozen trees have died, and nearly
balf the trepe halr the trees in the orchard show sisns on failing.
Many theories have been advanced regarging the of the trouble, but as nothing definite could be the causs Prof. H. L. Hutt, Ontario Agricultural College, Guelph was requested to investigate the mater. Ho went
down for that purpose last week, and after a careful examination declared that the trouble was a the reeful oxamination docined that the trouble was the result
of a combination of causes. the chief one being winter
iniury during the injury during the severe winter of $1903-4$. Many of the
more tender varieties of anples were outright in marieterter apples were that year killed
fering the the Province, Baldwins suff fering the most. In Mr. Axford's orchard the cipal failures are among the Baldwins, and the injury may be seen in the doad bark around the collar of the
tree, which practically girdles the tree, which practically girdles the tree, and eventually
causes death through tack of proper the injured trees have lived so long is ascribed to the tact that the roots were not inumed and ascibed to the thap was
carried up to the leaves as usulu), but the the down-low carried up to the leaves as usual, but the down-low of
cambium elaborated in the leaves was unable to cros theyirdled part and return to the roots. Which eventually ccaused the starvation of the trees. The unusually
heavy crop of fruit last year the girditing, as trees so iniured usually irect result of to reproduce themes ves by injured usually make an effort of the heavy bearing, however, lowered the vitality of the treas, and has hastened their death this ye
winter injury was most severe in orchhard winter injury was most severe in orchards that
not on high, well-drained lland, which emphasizes importance of care in the seection of $a$ site for the orchard. This was particularly noticeable by com-
parison with the orchard of Mr. John Penfound, eust or thirtoen years ohd, situatety young orchiard twelve there is excellent drainage to lower ground." In the whin rchard even the Baldwins have escaped injury. assure fruit-growers that the trouble is not cheen some new insect or disease which it was thought might spread and do damage to other orchards, but is really
the results of previous winter injur the results of previous
well have been avoided.
The Pritish Dairy Farmers' Association will prob-
ably hold its neett conerence in Canada, combining busi-
ness with pleasure ons
$\qquad$

## NEW ZEALAND'S PROGRESS

TWO-YEAR-OLD APPLES
coneral of New Zealani. colony for ten years, from 1896 to 1906, writes D. H. ${ }^{1}$ aml sending you two apples that welc grown in
Ross, Canadian Commercial Agent in Australasia. The orchard two years ago; havo had no oth
population land $14,382,787$ cutcivation rose from $11,550,0$ ñ 5 acres to the cellar. We have takel1 "The Farmer's Advocate 342,603; cattle, frome 1.138 horses from 249,813 to paper every success. OSCAR C. $1.851,50$. Wher $614,097,138,493$ to $20,108,471$ : shipping inwards, shee 659 tons to to $1,238,214$ tons. ${ }^{1,24,652}$ the wards, from (otal exports produce increased from $£ 9,177,366$ to $£ 17,841,346$; ment is still going on; for, though the colony is small extent, there are yet very considerable areas

## AUSTRALIA EXPORTING BREEDING SHEEP

 Australia has been shippingy considerable numbershighigrade breeding stock to South Africa since from the State of Uruguay arrived time ago an agen has purchased a number of sheep, paying very higli, prices for them. In one instance he paid 1,000 guineas for Nerino ram. He paid an average price of $£ 588$ each
for five, and $£ 126$ each for eight ewres. that the result of each for eight ewes. It is believed large and profitable market to Australian breeders.
The purchner The purchaser of the sheep has visited the Merino
countries of the world, and asserts he seen anything

## APPLE-EVAPORATING PLANTS

## WESTERN CROP OUTLOOK

Dr. Wm. Saunders. Director of Experimerntal Farms,
returned from an tour of inspection of Mantitola and
the Weat and

A GRAIN-SLING ACCIDENT
 believes that there will be a three fourths crop. With
 last year. Even should sorie of the for the crop of become frosted, it. will fetch a price almost as high as was obtained for good wheat last season. The agents
of the Canadian Northern Railway send ing reports of crop prospects alone that quite encouraging reports of crop prospects alony that line of rail-
way. On the whole, however, it is protable that Dr.
Saunders' estimate is near the mark Saunders' estimate is near the mark

$$
\begin{aligned}
& \text { Press despatches last week from St. John, Ne } \\
& \text { Brunswick, announced that R. Graham, manager }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Brunswick, announced that } R \text {. . Graham, manager } \\
& \text { a cold-storage company, which is now erecting a war }
\end{aligned}
$$

$$
\begin{aligned}
& \text { the establishment of six applevevaporating plants, to be } \\
& \text { built along the line of the Dominion Atlantic Railway }
\end{aligned}
$$

$$
\begin{aligned}
& \text { built along the line of the Dominion Atlantic Raillway } \\
& \text { in Western Nova Scotia. More may be built later on. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { but the six already decided on maye at Bridgeport. Mid } \\
& \text { dieton, Kingston. Sheffeld's Mills. Cantion }
\end{aligned}
$$

$$
\begin{aligned}
& \text { dleton, Kingston, Shecfild on are at Bridgeport, Mid. Mat, Cainbridge and Au } \\
& \text { burn, and the intention is to have them in workin }
\end{aligned}
$$

$$
\begin{aligned}
& \text { burn, and the intention is to have them in workin } \\
& \text { order by September 1st. The St. John warehouse wa } \\
& \text { oxpected to be comoleted hy }
\end{aligned}
$$

$$
\begin{aligned}
& \text { order by September 1st. The St warehouse wa } \\
& \text { expected to be completed by the second week of Se } \\
& \text { tember. Allusion was also made in the despatches }
\end{aligned}
$$

$$
\begin{aligned}
& \text { tember. Allusion was also made in the despatches } \\
& \text { a proposed retail store which the company was eve }
\end{aligned}
$$

dently planning to erect

The judges in the field cron coll Ontario Department of Agriculture, are Andrew Elliot
Galt ; Simpson Rennie. Toronto, and T.

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Cite，要iterafure and fyuratina．
 PEOPLE，BOOKS，AND DOINGS A new substance called molybdate the radio－active properties of radium， has been discovered by a young French student named Andre Lan－
cien．The substance differs very ma－ cien．The substance differs very ma－
terially from radium in that it is not at all expensive．
The engagement of the author，Sir
Conan Doyle，and Miss Jean Leckie， has been announced．Sir Cean Leckie， has been announced．Sir Conan is
forty－eight years of age，and is one of England＇s trio of most celebrated old bachelors．The other two are Sir Thomas Lipton，of yachting fame，
and Sir Thomas Dewar． It is said that J．P
is negotiating for the purchase two very ancient French convents， the Abbey Fontevrault and the
Abbey Solesmes．The former con－ tains the tombs of Henry II．of Eng land and his wife，and of Richard Cour de Lion and his wife Isabel． The airship＂America，＂in which from Spitzbergen to the North Pole is 183 feet in length，and 52.5 feet at its greatest diameter．The steel
car beneath it is 115 feet in length car beneath it is 115 feet in length the car to the top of the gas reser voir is 65 feet．The surface of the gas reservoir is 24,000 square feet，
and the weight of the envelope of gatto weight of the envelope or
coton，silk and rubber which sur rourds it is two tons．The ship， when going at full speed，in calm
weather，will go from 15 to 18 weather，will go from 15 to 18
statute miles，or 13 to 16 sea miles， per hour．It will be navigated by four men－a surgeon，an airship－
builder，a scientist，and Mr Wellman builder，a scientist，and Mr．Wellman
himself－and the total distance cov ered from Spitzbergen to the Pole and back will，if aqcoomplished，
1.236 sea miles． Mille．de la Ramee，the once famous novelist，known as＂Ouida，＂ha
been placed upon the British civi list as the recipent of a pension of
$\$ 750$ a year．Financial troubles have come thick and fast upon her
during the last few vears，and at times she has been in actual want of Cood．She still，however，indulges aep three，in Florence，during her palmy days，she kept at least thirty，
besides forty horses．Mlle．de ia Ramee is now sixty－seven years of
age．

THE PRIMTING－OFFICE OF TO－DAY AND YESTERDAY．

Long，long ago，if reckoned by the intervening mechanical development，
yet not so very long as the actuai years have passed，a small boy，tim orously，and in a fever on
dread，climbed the long，dark stair dread，climbed the composing－rootu
way leading to the morning newspaper office．He had secured a＂iob，＂and this was

tion of a long－cherished ambition
yet，as he approached his enchanted goal，he was fearful，and his hand
trembled as it touched the latch of the door，from behind which there came a buzzing，as of many voices Having overcome an almost irresis
ible desire to rush out of the ible desire to rush out of the build
ing and back home again，he drew deep breath and stepped into a along， low room，the ceiling of which was black with smoke from many gas
jets and the pipes of more than generation of smokers．Along one side of the room were racks，or
frames，and upon these frames，and upon these were placed
the cases of type，before which the men sat，or stood，as the which th sessed them．On the other sid were arranged the galley－racks and the＂dump，＂whene the type was de－ ＂stick，＂and there was always hi race to see who would have the first stickful dumped．Further down the
room were the composing－stones room were the composing－stones，up－
on which the different articles were assembled and made up into pages before being sent down to the press－ room：at the far end stood the proorreader＇s desk．
the editorial room．


Maiwand Saving the Guns
From a painting by R．Caton Woodville，R．I，Ioaned for the Toronto I：xhibi－
tion，1906，by the Walker Art Gallery，I．iverpool，Finglond had long wished to and awkward boy posing－room，was a notoriousty had long wished to become a printer，writer－almost as bad as the famous
for he believed that the man who
could could arrange the litt e letters into Horace（ireeley himseli－and as the
words，and the words inst round of copy was being given words，and the words into stories，out，the tourist，was being given
must be a real magician，in whose article that had evided an
train hrain were stored all the secrets of in a hurry．He lookedy been penned
 were distributing the the men，who down and looked again，then dopside time，as the printer can savang a type forach
 up from copy，he saw no reason to pread his frontispicce as he drawled
change his mind，for they talked of out，Not almost every subject under the blue，ourand of Not for mine，Whe drawled
and he heard familiar mention made that hold this that of things which he had thourde But，alas，when he was finall．bird．＂hand while ano ther leathe of the left



opinions on the subject But when the question re typesetting machines was introduced there appeared to ensue an intellec tual panic．Sane and sound as the jompositors were on all other sub－ bects，on the matter of setting type The usual concention were all at sea． tye usual conception of a mechanical something after the fashion of ＇daddy long－legs，＂＇with innumerable ＂case＂and pick up the out over the case and pick up the letters from
the different boxes．The thing was unanimously decided to be impossible and one veteran＂hobo＂back from the tall timbers just about expressed
the general sentiments when he de clared that，＂If they invent a de chine that，will read that stuff the old man＇writes，I＇ll swallow my
shoes，patches and all．＂the uncan tary condition of said shoes notwith－ standing．The old vet．＇s frequent and rueful reference to the chirog raphy of the editor－in－chief was pro
voked by an incident which oked by an incident which occurred this particular paper．${ }^{\text {a }}$ The old man．
as the chief as the chief editor was familiarly dubhed in the seclusion of the com－
hours later in a condition that his juvenile satanic majesty ，described as
perfectly
spifflicated．， their overburdened legs refused Indeed， sist in their ascension of the stair way，so they wandered into the press－ on the mailing tables，one on eily up side of the room，where one on either treachery of old Morpheus，they the easy prey to the minions of that sistance region，who，with the as various－colored poster－ink untities of their＂mugs＂with such hiero glyphics as would have caused the ancient Egyptians to sit up and take notice，or fierce old Sitting Bull
wither up with found there lith envy．They were morning，and then was the climax of absurdity reached，for，as they were shaken into consciousness and each became aware of the other＇s con－ dition，while entirely ignorant of their own，and while they pointed at drunken and maudlin way at half each considered a huge joke on the ridiculous they presented such an utterly old pressman almost that the grouchy into convulsions． But now the presiding＂＂devil＂（by
which designation the latest appren－ which designation the latest appren－
tice was always honored）took charge of the new boy，showed him where to
hang his coat，and，waiving the for－ mality of an introduction，commenced
his initiation by sending him in to the and had he a＂half－round square，＂ man suggested he should go，it is seturned assume he would not have he did not go，as other things called＂time，＂and immediately all crowded around the copy file cositors man securad his＂take＂of copy and hurrica back to his frame，and pres－ room，qulet settled over the busy the cilick，click of the type as the
letters dropped into posing－sticks．The typesetters of
those days were nearly all piece－ hands，and woe unto anyone piece－
should make himself during＂＂composition time，for he was as sure of being crushed，meta－
phorically，as the unlortunate the wheel of time．The embryo typo ly manipulate the pliant type，and he miled as he likened them in his own freking up cock of hungry chickens character in the tase by locate a type ng at the nick，pick it up，drop it
into the stick，where it is held in timomsl，without looking at one face Wank is pe，callod a ater each word a
drompe，being in，and the line ＂Wrow in，and the line space，being bified
I＇poper length by substitutint
$\qquad$

AUGUST 1, 1907
becane clear by a slow evolutionary
processs,
during
which process, during which old Fath
Tunes that greatest of all alchemists
gradually transiormed the small gradually transiormed the strall
intor a big one until one day thi
into
forman, arter much importunity the





 "analysis ", and to-day " analyses",
and for the very lite of him he could
not discriminate between ", he cour gressed "and ". his prog-ress,", and
in a multiplicity of similar words and in a multiplicity of similar words and
phrasess be could not comprehend the
distinctions
Ho tuarroled with the distinctions. He quarreled with the
reader, he was narrow, and he would always put himself in the right; until
one day, somehow-who can fathom one day, somehow-who can fathom
the inner workings of the human
mind?-he became conscious that there was more than one point of
view ; he changed places, mentally, with his opponent; he reasoned with himself, and endeavored to show
where he might possibly be in the
wrong ; he searched the dictionary and a new light began to dawn; he
gradually came to understand the adjective, a singular and a plural and that the form and placing of a
word in a sentence governed the inflection, and consequently the divi-
sion. The intricacies of our language were no longer a vexation, but the solving of each new problem gave
him keen satisfaction. His work seemed casier and pleasanter, and he
could accomplish much more in given time, and the proofreader in a possibly explain why, when the great
day came-yes, the camel had at ast passed through the eye of the
needle
hine and the first typesetting machine was installed, he, out of all
that large staff, was the one chosen
to operate it. The first machine was crude and
could not meet the requirements oif the daily paper: neither did it at-
tempt to read illigible cony; the in-
entors had skilfully .evaded the pit. alls conjured by the old-time com-
positors. But while the machine fell ar short of perfection, it embodied
the true principle on which the suc-
cess of the modern typesetter has been attained-that of a matrix, or
mould, in which the face of the letter









> student in physiognomy that the
stannary of manhoo h has not de-
feriorated Anhe
And he who is in charge
$\qquad$
$\qquad$ windee has vielded to her masturs. ciety and to place ideals belore them
th. realls ihe night when he first which may help them upward and
h.sititated on the wickety staircase. onward when the moment of real hurludes that. while time inderd trial comes. The new book which
Inison North has just issued from
he Wm . Weld Co

THE FARMER'S ADVOCATE.

MAKE MEN HAPPY.


$\qquad$ staying up nights to devour it. arter
llectivery, too, there is nothing real about it, when we synthesize, we leel like a buncoed gambler turned
loose. The good book, however-the
book which is good in its tone, grod in its aim, good in the quality of tessons conveyed - that book is a ten over the appetite for cant, which "ras but yesterday the expression of
worldly virtue. They "ordaly virtue. They want their
childrin to be real, honest, conven-
tional even, in these things which ornament the character of a man or woman worthy of the name. They
cannot build a jailyard around them,
they know; but, on the other hand, they have prudence enough to saifInt., under the title of "Car-


Preparing for Revol
charming story-clean, clever and
cultured-which, intended to uphold husbandry and the classes upon it
depending, should at least find for depending, should at least find a first
place in every Islander's book-shelf. The tale is captivatingly, if mod
estly and unaflectedly estly and unaffectedly, told. It is a
tale of the rural life of Ontario, but tale of the rural life of Ontario, but,
for that matter, so true are the descriptions of such life and the characters thrown upon the canvas in
them, that we imagine we have known them all our lives; we could Io right out here, in Prince Edward settlement, almost. The Mallorys and Carmichaels are repeating the family troubles of the Montagues and
Capulets: and we are all as much concerned, if not more so, in their outcome as are the numerous generations who hang on Shakespeare's lips,
and joy and sorrow with the youthful lovers whose lives foolish parents filled with bitterness unutterable. A misunderstanding between two farm-
er-neighbors, growing out of unfavorable appearances, nursed into real hate on one side-the guilty one-and
excessive if honest indignation excessive if honest indignation on the
other, made intercourse impossible other, made intercourse impossible
between the families, and Dick and between the families, and Dick and
Peggie, unnoticed when small, are
involved, to their areat distress involved, to their great distress,
when boyhood and girlhood is when boyhood and girlhood is
reached, and only have matters adjusted in the end after the serious trial of their true love is over. The narration and culmination of this events with it interwoven so skillfully. presents a stage to us, with
actors always upon it who can
operations of the farm, the simple and the complex alike, as vividly and o truly as to be of great use in its direct lessons. We want just such
books here, and many of them, and this is why we deem it apropos to call the attention of the community to it, and to urge the reading of it for its morals, its literature and its agriculture.

THE ELEMENTS OF LOVE. Love is a compound thing, Paul tells us. It is like light. As you beam of light and pass it through a crystal prism broken up into its component colors-red, and blue, and yellow, and violet, and orange, and all the colors of the rainbow-so Paul passes this thing, Love, through the magnificent prism of his inspired intellect, and it comes out on the other
side broken up into its elements. And in these few words we have what one might call the Spectrum of Love, the analysis of Love. Will you oobserve notice that they have common names: that they are virtues which we hear about every day; that they aro things
which can be practiced by every in every place in life; and how by a m every place in life; and how by a
multitude of smal things and ordinary virtues, the supreme thing, the
summum bonum, is made up? summum bonum, is made up? The Spectrum of Love has nine ingredi-
ents: Patience - "L Love suffereth long"' Kindness-"And is kind" Generosity - "Love envieth not" is not puffed up"; Courtesy-" Doth not behave itself' unseemly"; Unsel-fishness-"Seeketh not her own"
Good Temper-" Is not Good Temper-" Is not easily pro-
voked"; Guilelessness-" Thinketh no evil"": Sincerity-"Rejoiceth not in These make reioiceth in the truth. These make up the supreme gift, th Drummond.

## MILLET'S POVERTY

It seems alnost incredible that millet painter of "' The Angelus," and other now
world-famous pictures, should hove rom the poverty that forms the susige the following story, but it is a fact that he did. One day, indeed, he found himsend without food in the house for himsel
and family. In this extremity Dia offered to take two of Millet's drawings to Paris and make an effort to sell them.
Evening came, tho Millet family IVening came, the Millet family anxious-
iy awaiting thelr frimd's return If camo ack without the drawings it meant
bread with theing return . If he read, with them, hungry to bed. Night fell, the family sitting in darkness be-
cause they felt they could not aford At last they heard the stamping Diaz's wooden leg as he crossed the of ittle paved court, and his lusty voice calling
out, "I I.ight! Light ! Where is the light ?" The familly hurriel to lo light candle. But even while the head of the spluttering. and nothing if not temperamental slapped own two loaves of bread on the table, one after another, in quick succession. drew out sixty francs in was burning, he one piece, which he had been obliged to change in buying the bread. He arhalo around the candle a circle like a change, of which he made a neat pile "Ah," sighed Millet, as he re Zarded the unhoped-for treasure, "If only I could count on a sum like this every week !"
"Would you turn capitalist ?" proachfully asked Diaz
If to suffer
If to suffer is a spur to genius, is it a
wonder that these Barbi on men were Nonder that these Barbioon men were
great painters?

There had been a dressmaker in the house and Minnie had listened to long
discussions
about the very liscussions about the very latest
fashions. That night when she said her prayers, she added a new phetition, uttered with unwonted fervency :

THE FARMER'S ADVOCATE
FOUNDED
The Quiet Hour.

THE DUTY OF GLADNESS
Rejoice in the Lord alway : and agai
say rejoice. -Phil. iv. 4 . part of the Refiner, but is the fault of suddenly, an opportunity for congenial address, ". To die is gain," for a friend
the material IIe is trying to refine. work came unsought, then new friends in England, who, a ferw weeks ago, had
"The bellows are burned, the lend is came into my life. the material He is trying to refine. work came unsought, then new friends in England, who, a fewr weeks a ago, had
The bellows are burned the lead is came into my hife, my horizon grew a little grandson drowned. Me was ouly
consumed of the fire; the founder melteth wider as my sympathy went out to the six years old.
in vain. in vin. .A. . reprobate silver shall wider as my sympathy went out to the six years old. I. am writing it all, as
yeople around me, and I began to I think it will comport her. She is a
 tribulations, and seek to gain the gift of Do we not share her experience, io I have not wearied you with my hope
a beautiful purity, gaxing continually
into the
 $\begin{array}{ll}\text { " I would my friends should see } & \begin{array}{l}\text { into the face of the One whose hand } \\ \text { "presseth sore," yet very tenderly; until }\end{array} \\ \text { He }\end{array}$ In my glad eyes the beauty of His face;
Should learn that in His presence there is peace,
Strength and contentment, that can take his beloved as can, with great joy, gold out of the
furnace.
doubt the living continual care of cur
Heaventy Father. Should we not be
as glad as little children


Yesterday someone said to me: " You always look so happy," and I thanked God friends should see in my glad eyes the beauty of His face." I do most earnest journey through life, and I am more and more convinced that gladness is one of know a young girl who is seldom now. I jolly, but whose face is always so glad
that the common saying about her "Her face is like a benediction." Such the world-and it is the outward visible sign of God's benediction; the proof that
the soul is walking with God in I have set the Lord always before me," says the Psalmist, " because He is
at my right hand, I shall not be moved." And he goes in to explain the effect of
such a cause: "Therefore my heart is
glad, and my glory rejoiceth."
The great secret of perpetual gladness
is the realization of the presence
God. It must destroy cowardly fear
danger to know that
sidde us, all-loving and all-mighty to pro
tect and strengthen His Horgiven chi
dren who are earnestly trying to obe
Him in and
dren who are earnestly trying to obey
Him in all things. No wonder Elijah
dared to confront Ahab with his stern
message of a a threatened and terrible
punishment. when he could
" God never would send you the dark-
ness,
If He thought you could bear the
light,
present, future, watching over us in the thays willing to forgive others may day ine rememblering to say
the sins of the past, and let any, of our read
afresh with start have forgotten the words, I will
But vou would not cling to His guid-
ing hand
If the way were always bright.
And you would not care to
afresh with no record against us in 1
book of remembrance, if only we
ing hand not cling to His guid- really sorry for our sins and earnes
If the way were always bright.
And you would not care to walk by
faith
Could you always walk by sight.
Tis true 'He 'has many an
'Tis true 'He ' has wank by sight.
For your angorrowful heart to bear.
And many a crrowflul heart to bear,
For your tired coro
For your tired head to wear.

- He, knows how few would reach
Heaven at all few would reach
if pain did not guide
"If pain did not guide them there.
$f^{\text {I }}$. He ' sends you the blinding dark
ness sends you the blinding dark
And the furnace of sevenifold heat,
'Tis the only way, believe
Tis the only way, believe me, meat,
To keep you close to His feet.
To keep you close to His feet,
Fr. Tis always so easy to wander
When
- When our lives are easy to wand and sweet,
Then put your hand in your Father's
And sing, if you can, as you gor's
Your song may cheer someone behind
You
Whose courage is sinking low.
And, well, if your lips do

beside the One who is altogether lovely? My dear Hope,-Our workers here wish
Then we can respect the sweet refrain of
Then we can respect the sweet refrain of Me dear Hope,-Our workers here wish
the Song of Solomon: "My Beloved is to write and thank, through you, the
mine, and Iriends among ame this."
the Song of Solomon: "My Beloved is is to write and thank, through you, the
mine, and I am His."

.. The busy fingers fly: the cyes may see sending money, but by not signing bay
"The busy fingers fly; the eyes may see name gave us no chance of thanking
Only the glancing needle which they them personally. We appreciate also, of
hold
hold:
Rut all my life is blossoming inwardly,
And all my life is blossoming inwardly, but our seoretary has been corresponding
$\begin{array}{ll}\text { And evary breath is like a litany; } & \begin{array}{l}\text { with them. This note is particularly }\end{array} \\ \text { While through each labor, like a thread } \\ \text { of thanking those who so generously give, } \\ \text { of gold, }\end{array}$
of gold,
Is $\begin{aligned} & \text { of } \\ & \text { woven } \\ & \text { Thee ", }\end{aligned}$ the swect consciousness of We will tet you know later of the numb-


God will love you better so.", $\quad \begin{aligned} & \text { how } \\ & \text { and } \\ & \text { and }\end{aligned}$


Coming from the Fai
each day. In case cantbering have forgotten the words, I will read hyself to GOD this don this day, I pis Ip me this day." Then there GOD thle Act of Love: $\quad .1$ ord Jone then more." My dear Hope,-Our workers here friends among the readers of i. Th sending money, but by not signing any
name gave us no chance course, those whally. We appreciate also, of but our seoretary has been corresponding
with them. This note is particular thanking those who so generously give,
and keep themselves in the background. ber of homes, etc., that we have re-
ceived through your columns. The work
has gone on very successfully has gone on very successfully the wear,
about four hundred children have yone over for the think the work. Wishing you suarly
in your work, and thanking you for your


AN ELECTRIC HOUSE
$\qquad$
Thignor Georgia Knam. and is owned by
Thescription of the house sounds
rather weird. Had it stood in old-
times in Salem, the inhabitants would
surely have been hansed ton, instantly the door flies purn a butmysterious voice bids fies op wou, and a
hidden greome-a of this house, and it rumst the the hall Along clean in the most thoughtful way.
all
$\qquad$
$\qquad$
$\qquad$


 ber that One who loves you is watching
tenderly over the refining showing His the refining process. How is
 , Recimer ",
$\underset{\text { through }}{\text { sortness }}$
sortness in dealing with us.
cannot be refinned to God's dealings with us. if will sistently, suy "Not Thy will hut mun. be done." Surely we do not wit
tament of Jeremian over his poopl.
true of us, when he declares that

Children's Corner
the litte vorager.
 when asked to write about wild animals and the countries they inhabit, wrote,
". Wild animals used to abound in Eng. 9

## A NARROW ESCAPE.

$\qquad$
$\qquad$ The sky was serene :
The flowers smiled,
And the grass wasBut before she had hopped
Cress the open space,
She felt something damp
A cloud had
And raindrop
Comine doun tull ind


Tors the terat the rotionSHOULD HOME-WORK BE DONE AWAY WITH?

## With the Flowers.

UNTHRIFTY GERANIUMS
Will you please tell me what is the matter with my geranium plants, and started about three weeks ago; the leaves became diseased and yellow and dropped off. I have dusted them with insect powder, and sprayed them with three drops of carbolic acid in about a quart of water, but it does no good. K. L. J. Wellington Co., Ont
We do not think it probable that the trouble with your geraniums is due to
insects. Probably the drainage is at
funlt possibly you have been giving too much water. Repot your plants very carefully. Put an inch or more of drainage
material (broken crockery, etc.) in the material (broken crockery, etc.) in the
bottom of each pot, put in a little good garden loam, insert your plants, and flll all about the roots with the soil, press-
ing down gently. Water, and keep in a
slightly-shadel slightly-shaded place for a few days.
Geraniums should only be watered when dry; that is, when the soil waems sems dry on
top, and the crock pives top, and the crock gives a ringing sound
when tapped at the side. Give the when tapped at the side. Give the
plants plenty of sunshine, and do not plants plenty of sunshine, and do not
keep in too large pots, if you want
plenty of flowers.

## PRIMROSE.

Ont., writes: "How should I'treat a primrose and primula, which flowered last again next winter?
All primroses and primulas pelong to the same family; primroses are, in toct primulas, although there are several species. In answer to your question, Mr. Wm. Hunt, of the O. A. C., Guelph, either prant mentioned is doubtless either Primula sinensis (Chinese prim-
rose), or Primula obconica, both varieties of which are pot primulas for winter flowering. The summer treatment for both these varieties is about the
same. Stand the prent same. Stand the plant in the pot in a
cool, shady place, either in a north window or out of doors, where the hot
sun does not strike ther sun does no of strike it. Where the hot Give water
sufficient to keep soil moderately moist sufficient to keep soil moderately moist. removing a small portion, about one-
thind, of the outside of the soil carefully thind, of the outside of the soil carefulyy.
A size larger pot than the old one should A size larger pot than the old one should
be used. One part sand and one part of
leaf mould, or black soil leaf mould, or black soil from the bush, and two or three parts of light loamy
soil enriched with about one-fourth part soil enriched with about one-lourth part
of dry cow manure makes a good comrost for primulas.
"Avoid potting the plant too deep in he soil. Good drainage is necessary. Place
nearly an inch of small lumps coal, broken flower-pot or coarse charin the bottom of the pot for drainage.
The Chinese primrose does not succeed The Chinese primrose does not succeed
well, as a rule, the second season. Young
seedling plants of both varities succeed seedlii
best.
everybody pay up
A negro preacher, whose supply of cided to take radical steps to impress
upon his flock the necessity for conapon his flock the necessity for con-
tributing liberally to the church ex chequer. Accordingly, the church ex
the sermone close o the sermon he made an impressive pause,
and then proceeded as follows : and then proceeded as follows :
"I hab found it necessary on account, ob de astringency ob de hard times an de gineral deficiency ob de circulatin mejum in connection wid dis cha'ch, $t^{\prime}$ in
terduce ma new ottermatic c'lection box It is so arranged dat a half dollah or quahtah falls on a red plush cushion (vithout noise; a nickel will ring a small tion, an' a suspendah-button, ma fellow Inawtels, will fiah off a pistol; so you will gov'n yo'selves accondingly.
de c'lection now pot
Let de c'lection now p'oceed, w'ile I takes of

The Ingle Nook.
seemed to move about with more common gigantic cones
sense. It was made up of small black (I much trouble
think, but would not like to swear to it during the Bo
ANTS, AND HOW TO EXTERMINATE THEM
The other day I had to look up some-
thing in regard to ants, and found my self so interested in their history that the thought occurred to me: Why not pass so
terers ?
terers? of debating in regard to whether ants
possess intellect or not. Some
naturalists have written enthusiastically naturalists have written enthusiastically
in favor of the theory that they do reain favor of the theory that they do rea-
son and calculate as to the result of
their labors : others repudiate this their labors; others repudiate this es
nonsensical, and hold that instinctwhatever that poorly -defined quantity may be and not reason, is the motive power at the back of the marvellous
workings of these wonderful little creatares. Among those who hold the latter theory is the great German naturalist,
Bethe, who says: . T They learn nothing Bethe, who says: " They learn nothing,
but act mechanically in whatever they do, their complicated reflexes being set off by simple physiological stimuli."
$\begin{array}{cc}\text { Perhaps some of you have read Mark } \\ \text { Twain's } & \text {." Tramp Abroad." It is a }\end{array}$
book which I can recommend you with all my heart; that is, if you like in-
formation and good fun mixed up together. But return, in one part,
which he calls his "chapter on natural history," he tells of an ant which he up his observation of ants in general as
 been in better business, and I have not
yet come across a living ant that seemed
to have any more sense that a dead more sense that a dead
one. have any course; he is the hardest-working crea-
ture in the world-when anybody is looklure in the world-when anybody is look I make against him. HIe goes out for-
aging, he makes a capture, and then,
what does he do ? -he have been convinced. goes anywhere hut home. He doesn't
know where home is. His home may be Only three feet away-no matter, he can't all labor. In Africa, there is a terrible
find it. II makes his capture, as I species
 anybody else; it is usually seven times their path. When the natives see them
bigger than it ought to be: he hunts out bigger than it ought to be; he hunts out even from the villages, and alto although
the awkwardest place to take hold of they may return to find all of their pro-
it; he lifts it bodily up into the air by visions aten main force, and starts; not the ward home, visions eaten by the ants, they have
someompense in knowing that all
but in the opposite direction; not calm- domestic pests, mice, etc., have also been
ty and wisely y and wisely, but with a frantic haste,
which is wasteful of his strength; he fetches up against a pebble, and instead
of going around it, he climbs over it of going around it, he climbs over it peoples malefactors have been put to
backwards,
dragging backwards, dragging his booty after in the route of these terrible insects.
him, tumbles down on the other side.
In Texas and some other parts of
jumps up in a passion, kicks the dust off umps up in a passion, kicks the dust off
his clothes, moistens his hands, grabs his property viciously, yanks it this way, "agricultural" ants, which build io-
then that, shoves it ahead of him anderground nests, and are said to men that, shoves it ahead of him a cultivate upon the area overhead the
moment, turns tail, and lugs it after species of grasses upon which they feed.
him a moment, gets madder, then pres- Howard also refers to a species which
entry hoists it into the air
 occurs to hims to go a around it, he never
climb it, dragging his worthless property

 gets up there he finds that is not the place:
takes a cursory glance at the scenery and
either climbs either climbs down at again or tumult
either
down, and starts off once more-as usual
in a new direction an hour he fetches up within six inches All ants hibernate in winter, and the

$\qquad$
$\qquad$
 observation has been just about equal to for sew. observed that some queens live. while the neuters died in
that of the most of us, and that is why

PRELIMINARY ARRANGEMENTS FOR THE FALL FAIR $\begin{array}{llll}\text { wood; others simply make tunnels under- } & \text { Fair time is drawing on apace, } \\ \text { ground; and still others erect dwellings } & \text { Prospective exhibits are, it is it o be pred- } \\ \text { of a paste-like substance, which hardens } & \text { sumed, well under way, and there semi } \\ \text { later into substantial walls. One very } & \text { little further to be done; yet it is not }\end{array}$ one whit too soon to be making plans for the fair itself, particularly in regard
to how the exhibits may be dist to how the exhibits may be disposed to
show them to better advantage, and so to make the fair more educative, more attractive than ever before.
Our fairs are well worth
Our fairs are well worth an effort.
They afford the one general opportunity of showing nut only what our country is
doing in the various lines represt doing in the various lines represented but-what is more to the point-what it
can do when trying its best. Frons make-
ing an extra effort for the ing an extra effort all round is no far cry. Moreover, there is a stimulus
in seeing what others have dit in seeing what others have done; there is an education in it, provided the entry
lists have been carefully compiled, and everything that borders on the crude or
vulgar unsparingly weeded vulgar unsparingly weeded out. We sin
cerely hope no prize will Canada this year for Berlin -wo Canada this year for Berlin-woo
wreaths, or any like monstrosity. It seems a pity to waste space in such per
petrations when so much is petrations when so much is or shot-
be required for exhibits of the substanbe required for exhibits of the substan
tial things -good bread, butter, canned fruit, honey, neat plain sewing, etc. and for those which make for refinement
and beauty-dainty white pencil drawings and flowers. Work, fin better to see a good exhibit of bread and butter than an extensive showing of dauby oil paintings; a fine arrangement
of cut flowers than an array of cushions wondrous of coloring and workmanship, upon which no tired heard is ever, li
any means, intended to rest; a beautyany means, intended to rest; a beaut-
fully-made child's dress than a a "quilt "
made up of made up of two thousand and five pieces, Waste of energy and time. The quilt were made up of forty pieces, or twenty or ten, while the child certainly must
garment.
We set out, however, to emphasize the
point that good arrangement counts for may we suggest that And just here ranging in the women's work of ar-
department women. Women, as a rule, have a fine sense of contrast and harmony than men,
and are much more likely to recognize the excellence of fine but unobtrusive
work, and to give it the place of prominence which it deserves. .. See
to it that, if possible, things
huddled tore huddled together. Provide backgrounds
that will throw into clear and pleasing re.
lief the lief the articles disposed thereon. Having re-
fruit and flowers distinctly see to it that they, as well as any new fancywork. etc., which it is desirable to
propagate charge of someone who whordood are in
exhibit, and is prepared to exhion, and is prepared to answer ques-
tons in regard to it. May we repeat.
our fairs should. our fairs should, as far as possible, be
educative, and how can they be un
less teachers, as well as object lessons. Apropos of flowers, do not greatly,
favor extensive exhibits of " mixed ", favor extensive exhibits of "Mixed"
bouquets -mixed bouquets are usually
things to be handled with tongs. And things to be handled with tongs. And
do not permit too much banking or
massing. except where merely decorative massing, except where merely decorative
effects are to be obtained. For the exseparate uniform glasses pickle bottles will do admirably -each species by itself,
and but very few specimens (a single one, If large) in each glass. Across the front Wace a distinctly-written label, and so
make it possible for spectators to take
$\qquad$ Again, own gardens.
do not place filmy white laceposition with embroideries, etc., in juxta
cxture or bright much coarser in in color. The effect is
are are to be either in color. The effect is overshadowed, or that dainty others ap-

## -

AUGUST 1, 1907
THE FARMER'S ADVOCATE.

| late yenrs; but that actual teaching the matter is still necessary abundantly evidenced even yet by a trip to some of our fairs. Even yet a good ministering spirit is needed to whisper that working materials in soft olives, bronzes, old blues and Indian | this disease is not injected through the skin by muspuitoes, but enters the sys the ue mouth. Accordingly foocd por supply was cleaned up and al infection.-\| Independent. |
| :---: | :---: |


 require meat more than once a day dur-
ing hot weather. To serve it more fre-
quently is only quently is only to sacrifice con
yours and theirs too-to a notion.
yours and theirs too-to a notion.
The following recipes may contain a
few hints which may be suggestive durfew hints which may be maggestive dur-
ing the next few weeks: Graham Bread. - Soften $t_{2}^{1}$ yeast cake in
cup water. Melt shortening in
cup water,
1
 cups Graham flour and 1\& cups white
flour. Mix well, but do not mould.
Mix late at night, cover colosely, and in
morning cut down with a knife, and turn morning cut down with a knief, and turn
into bread pans. Shape and smooth the into bread pans. Shape and smooth the
top with a knifo dipped in hot water,
and when again light, bake nearly hour. Use a whole yeast cake when the
bread is mixed ir the morning.-[Boston
Cooking School.
 teaspoons baking powder, i teaspoon
salt, $\ddagger$ cup sugar., Beat 1 eqg; add $1 \ddagger$
cups thick, sour buttermilk, mixed with cups thick, sour buttermilk, mixed with
a scant hall teaspoon soda, and stir into
dry ingredients. with a tablespons
melted butter. Bake in hot, buttered
muftin rings, or deep pattypans, about 25
muf. muffin rings, or deep pattypans, about 25
minutes. If buttermilk be very thick,
add a few spoonfuls of sweet milk to minutes. If suttermink af sweery milk to
add a few sponfuls of swe of the right consistency. If it be
nake of the
sweet, omit the soda and use 4 teasweet, omit the soda and use 4 tea-
spoons baking powder.
Currant Loaf.-Beat ap butter to a
 Add $\frac{1}{4}$ cup milk and 1 it cups flour sifted
with level teaspoons baking powder,
and, lastly, the whites of the 3 eggs, beaten light. Turn into a shallow pan,
bprinkle with sugar, and bake about 40 minutes.
French Bread.-Soften a cake of yeast
in cup boiled water, cooled to luke in \& cup boiled water, coooled to lo luke-
warm, and stir in of cup flour. Knead until the little ball is smooth and
elastic. Cut across the top in both
directions, and drop into a pint of water
boiled and cooled to boiled and cooled to lukewarm. In
about 15 minutes, the ball will float on
top in a light, pufty sponge. Into this
water and sponge stir a teaspoon salt,
and between 5 and $\%$ cups flour, enough water and sponge stir a teaspoon salt,
and between 5 and 6 cups flour, enough
to inake a doun. Knead and pound un-
til smouth and minutes. Now cover, and set aside in
a temperature of about 70 degrees $F$.,
until it has doubled in bulk. This is until it has doubled in bulk. This is
best baked in long, narrow loat tins.
Roll and stretch the dough on the board ery Roll and stretch the dough on the board
ner until it will fit the pans. Press a round
be floured stick down on top to make the loured stuck down on top to make the
loaves concave. put in pans, cover, and
let stand to become light. Now cut let stand to hecome light. Now cut
three or four slantwise cuts in the top
of the bread, and bake about 40 minutes. of the bread, and bake about 40 minutes.
When nearly baked, brush over the top
with n tablespoon of white of an egat with a tablesponn of white of an egg
beaten with a tablespoon of cold water.
$-\mid$ Boston Cooking School. Rusks.-When your bread dough is
ready for the pans, take out enough for ready for the pans, take out enough for
a small loaf, and work into it a tablespoon of butter, 2 of sugar, and a beaten
s. bo autach Roll out about nit inhem
 with melted butter, and bake to a
golden brown. When cold, cut into golden brown. When cold, cut int
squares. Twists.- Scald ${ }^{\text {a }}$ pint milk with
tablespoons butter. stir in 2 beaten eggs, $\%$ cup sugararm, and
$\ddagger$ yeast cake dissolved in a little luke $\ddagger$ yeast cake dissolved in a little luke-
warm water. Stir in enough flour to make a stiff batter. When light add enough flour to make a soft dough, knewd for 10 minutes, roll out an inch thick, cut into
strips, and make into rings or braids strips, and make into rings or braids,
Rrush over with buttor, sprinkle with
sugar ond sugar and cinnamon. Let rise again, and
when very light glazing with sugar and water when near Canning Small Fruits.-The following recipe comes from Boston Cooking School. We cannot recommend it from
experience. but it and, we think, is well worth a trial, on
a small scale at least: " Fill sterilized jars with perfoct fruit, and cover with
cold boiled water; then seal in tubs cold boiled water; then seal in tubs of
cold boiled water-2 or 3 inches under
oth weiler the water. After waiting for all bubbles and reseal, as all of the air must be ex-
cluded."
Canning Strong Fruits. - Strongly flavored fruits, such as plums or
cherries,
much more delicate if packed into the sealers, which are
then filled with cold water and to a boil. (set in-a wash-boiler, of water),
Pour the liquid of for jelly, and refill sealers with a rich syrup made of granu-
lated sugar. Creamed Corn.-Turn back the husks Replace husks, and boil 20 minutes in
salted water. Take of salted water. Take off husks, and take cornels off with a sharp knife. For each
cup of pulp have ready a scant cup cup of pulp have ready a scant cup
of sauce made of 2 tablespoons each but-
ter and flour, salt and pepper to taste, and a cup of cream. Mix corn with this; Canning Young Beets.-Scrub the young beets without bruising the skin, and cut stem. Cook until nearly tender, drain, skin, and put in jars. Set jars in a
boiler, as usual in canning and teaspoon of salt and ${ }^{2}$ and add a
tablespoons water to fill the jars, also water in boiler to come half way up jars, Put the
cover in water beside the jars. Coyer the boiler, and cook an hour. Adjust

AN ORDINARY MAN " DISCOVERS that true greatness is POSSIBLE TO HIM
$\qquad$ hons. I meant to achieve greatness. As the greatest respect for the fellow who could do things-for the boy who beat
me in athetics, for the teacher who
could mate could make the dullest pupil understand,
for the man who could sway multitude by his oratory. As I grew older, I had
my favorite heroes in literature and
history-Robinson Crusoe. Aleaxander the Greary, Robinson Crusoo, Alexander the
and an indiscriminate host of
others. others. I Was emulous of all this
heroism. I, too, would do something worth while. In my boyish vagueness, I did not know whether I should be an exbooks, a sculptor, or what; but of one
thing, thing I was certain-I would be a great
man; the world should hear of me some
day I started on my college life full of high
hopes and purposes. I met with hopes and purposes. I met with somp
success, enough to encourage me to press
on. I learned many thing curriculum. And it was here, I remember, that $I$ caught the first faint glim-
mer of a truth which I was afterward
to to learn more thoroughly through tribulation and disister; namely, that the
most important thing in life most important thing in life is not so much "What we do as what we are.-
From. The Confessions of an Ordinary
Man," in Circle.

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mer for treatment. Send 10 cents for books Satiifacion guarant
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Current Everits. tweeter: the story of an

over $£ 300$ in prizes.
A permanent biological station for tastern Canada is to be established The rails are now laid on the
Temiskaming \& Northern Ontario Railway to a point 208 miles above
North Bay.

Nearly 150 people were drowned
recently in a collision between the
steamer Elder and schooner San Pedro off the coast of Chaoner San
The sixty-five Japanese recently arThe sixty-five Japanese recently ar-
rested on the charge of illegal sealing rested on the charge of illegal sealing
in Behring Sea, are to be tried in the United
Alaska.
Nearly $\$ 400,000$ damage has been
the result of a fire in the New Edin-
burgh district of Ottawa. The W.
C. Edwards Lumber Co suffered
greatest loss. ". .
seat in the British House of Com-
mons because of ill-health, and may return to Canada. He is now inay Once or twice there was a sudden
$\qquad$
road, with especial equipment rail-
fighting tor
Winnigeg Western winter.

## In order to experiment with new guns and projectiles, the Austrian Government hac

 mian village of Mlada. All the in-habitants have left, in preparatin
for the bol

Besides establishing courses of agri-
culture in the High Schools Collingwood, Morrisburg, Perth, Es sex and Lindsay, the Ontario Govern-
ment has also decided to open
offices at each of these charge of each of the agricultural teachers
which the farmers at certain hours meet to confer with
he representatives of the lSepart-

$\qquad$
mperor. It is stated by Americane Capranese are rapidly despoiling th
Coreans of their lands and industries
and delauchirg them by selling to Chine. extensive quantities of mor
[Note that, hy a new agreement with Japan
$\qquad$ aw been given almost absolut



NERVOUS CHILDREN Intelligent people are beginning to un-
derstand the importance of protecting the
nervous system in infancy, and the
danger nervous system in infancy, and the
danger of a shock to childish nerves. As
a rule, the more a rule, the more quiet a baby is kept
during the first year of its life, the bet-
ter chance it he ter chance it has for a life life, the bet-
happiness. The fact that so large and proportion of the human fomily die in
infancy, is due largely to the folly of nurses and the ignorance of mothers.
Over-bright babies do not commend them-
selves to physicians, Who know that the selves to physicians, who know that the
first year of the child s life should be
spent largely in sleep. All efforts to arouse the dormant mind of efforts to child at
this period are attended with demper. Thaty in the air, while it screamis both
bith aflright and dangerous one. A physician with most large practice tells the story of a
precociously-bright child, which showed
evident delight when tossed by a doting grandfathers, who was ac-
customed to play with it, in this way every evening. The child trembled with
delight. when the night's frolic but one evening from this trembling it
passed into a spasm, the first indication passed into a spasm, the first indication
of one of those fatal brain liseases
against which medical science is help-
less. - Sel.

SOMETHING DOING
Who wants it always an easy one-
The road we travel?
Who wants the problems we've all begun
Soon to unravel? What boy or girl, while time is flying,
Would be content to give up trying ?

$$
\begin{aligned}
& \text {." Mother," said a college student who } \\
& \text { had brought his chum home for the holi- } \\
& \text { days. "nourmit }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Mr. Specknoodle." } \\
& \text { His mother, who was a little hard of } \\
& \text { hearing, placed her hand to her ear }
\end{aligned}
$$

$$
\begin{aligned}
& \text { hearing, placed her hand to her ear. } \\
& \text { aI I'm sorv, George, but I didn't quite } \\
& \text { catch vour Griond'' }
\end{aligned}
$$

$$
\begin{aligned}
& \text { I say, mother,", shouted George, "I } \\
& \text { want to eresent my friend, Mr. Sipeck- } \\
& \text { noodle." presen }
\end{aligned}
$$ and as each youngster dubiously shook

his head. the teacher beenan to to kroun



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I have had several ewes with caked $\begin{gathered}2 \text {. Or, is there any certain sum which } \\ \text { udders, and they get real hard. What is needs to be paid to make the barkain } \\ \text { the cause }\end{gathered}$ the cause, and what treatment should
use ?
Ans.-The cause of caked udder, garget
or mammitis, is generally over - secretion
2. In cases where it is necessary to a
binding contract that something should of milk, but sometimes it is owing to binding contract that someching should
impure bloor. A A dessertspoonful of bak- be given in earnest to bind the bargain,
ing soda in a pint of water, given as a or in part payment, the aniount so
drench once a day for three days.

donna, $t^{t}$ ounce; tincture of acon of bella
ounces; tincture of opium, 3 ounces; raw
THE SPICE OF LIFE.

$$
\begin{aligned}
& \text { Little Tommy had been forbidden } \\
& \text { swim in the river, owing to the dang } \\
& \text { One day he came, hwing tion }
\end{aligned}
$$

$$
\begin{aligned}
& \text { swime in the river, owing to the danger } \\
& \text { One day he came home with unnistah- } \\
& \text { able signs of having been in }
\end{aligned}
$$

$$
\begin{aligned}
& \text { able signs of hame home with uninistah- been in the water. } \\
& \text { His mother scolded hin severely. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { His mother scolded him severely. } \\
& \text { ". But I was tempted so badly, mother, } \\
& \text { said Tommv. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Sald Tommy. } \\
& \text { '. That's all very well. Bu }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Tommy paused, and then said, } \\
& \text { " Well, mother, I took my bithi }
\end{aligned}
$$

$$
\begin{aligned}
& \text { "Well, mother, I took my bathing sui } \\
& \text { with me, thinking I might be tempted. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { A man who runs a truck in Virginia } \\
& \text { tells of the sad predicament in which }
\end{aligned}
$$

$$
\begin{aligned}
& \text { negro named Sam Moore, who is in his } \\
& \text { employ, recently found himself. Sam had }
\end{aligned}
$$

$$
\begin{aligned}
& \text { employ, recently found himself. Sam had } \\
& \text { had considerable dificulty in evading the }
\end{aligned}
$$

$$
\begin{aligned}
& \text { onslaughts of a dog from a neighboring } \\
& \text { farm. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { farm. Finally the dog got a nim, as Sambering } \\
& \text { kicked at him. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Kicked at him. } \\
& \text { Sam's wife, he }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Sam's wife, hearing a tremendous yell, } \\
& \text { rushed to the rescue of her husband. When } \\
& \text { she came up, the do had fastenco the }
\end{aligned}
$$

$$
\begin{aligned}
& \text { she came up, the dog had fastened his his has hand } \\
& \text { teeth in the calf of Sam's leg and was }
\end{aligned}
$$

$$
\begin{aligned}
& \text { teeth in the calf of Sam's leg and was } \\
& \text { holding on for dear life. Seizing a stone }
\end{aligned}
$$

$$
\begin{aligned}
& \text { holding on for dear life. Seizing a stone } \\
& \text { in the road, Sam's wife was about to } \\
& \text { hurl it when Sam, with wondertul }
\end{aligned}
$$

$$
\begin{aligned}
& \text { hurl it when Sam, with wonderful } \\
& \text { presence of mind, shouted : } \\
& \text { " Mandy! Mandy }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Mandy! Mandy Mon't frow dat } \\
& \text { stone at de dawg Frow it at me. } \\
& \text { Mandy !". }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Stone } \\
& \text { Mandy }
\end{aligned}
$$

Aiven a cont graduate from Harvard was The young aspirant was not told at
what hour he should renart: morning he appeared in the office of his
chief at nine o'clock. He found the presi-
dent hard the clerk's tardiness. Nothing was said of
sented himself at at eight-thirty, only to pre-
find that the president was there ahead The third day the young man went at
eight o'clock with the same result took counsel with himself, and cleter morning. Accordingly of the boss the next
office at seven-thived at the there was the chief working away as in
he had not left the office at As the clerk entered, the presiden "Young man," said he, a quizzical air.

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yustomer.-What sort of a chicken do
youll this?
Waiter.-That, sir, is, I believe, a Ply-
mouth Rock.
Customer.-Ah, I'm glad it has some Customer.-Ah, I'm glad it has some
$\begin{aligned} & \text { historic interest. I thought it was jus } \\ & \text { an ordinary cobblestone }\end{aligned}$ an ordinary cobblestone.

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 toties. Help us to play the man, help u
to pertorm them with laughter and kind
faces. let cher

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The iong－drawn－out controversy b
tween the Chicago packers and the con mission men，over the buying，or rather
then attempted buying，of cow and heifer
stuff subject to


 priee The packers held out for th
priviege of buying canners and dairy
cows subject to post－mortem inspection but the commission men refused to gecran
this，and insisted that when the packer
his， bought an animal，whether canner，dair
cow，or anything else，it must theor nw or hard．arge




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borhood of Bowmanville，Ont．，on Jund 20th，lightning struck the farm on Juildings
of Brown Bros．，in Clarke burning the broildings and cirke Township，
same press despatch staten．The same press despatch states that．Allin
Bros．，the well－known breeders，lost some
nine head of Slo nine head of Shorthorn cattle，which had
taken shelter under a shade tree in the
pasture field． curred near Brockville Deliar favid Houlty oc
Augusta，was blown of
Drom a lond of hay


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quires no shadings，back slants or
vertical strokes which are shat remember＂and require＂slackening up＂to make correctly． write and reag is thus easier to learn， whe and read．A speedy，accurate ates than we cmand for our gradu
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& \text { Association. }
\end{aligned}
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In such cases the action of MILBURN'S
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MONKEAND Yorkshires Imported d Canadian-bree Wo koep 95 brood sowa, and have oonamantiay a apply paira and aniosion ot ohoose fromin Om JAB. WILEON A SONS a. T. R. and O. P. R. Lons-diatance Pben

QUESTIONS AND ANSWERS Miscellaneous.

With tar a few times during summer
When the disease appears
 PENNY CRESS AND
CAMPION
You will find enclosed two kinds of
weeds which we would like to know
what they are, and if very harmful. what they are, and if very harmful.
Ans.-Both are bad weeds. The one with the oval, flat seed pods is penny
cress (Thlaspi arvense), called also cress (Thlaspi arvense), called also
bastard cress, French weed, wild garlic, and stink weed, a winter annual. It
was introduced from Europe, and is
wary very abundant in Manitoba and some
parts of Ontario. It is spreading
rapidly, as each plant produces enormous rapidy, as each plant produces enormous
quantities of seed. Hoed crops and
thorough cultivation are recommended for thorough cultivation are recommended for
its eradication. If grain fields are overPleasant valley shorthorns, Shorthorns in Canada is of Scotch Valley herd, the property of Messrs. Geo Amos \& Son, Moffatt, Ont,. a few miles south of Guelph. Founded on straight the herd has been a high-class animal and perhaps noen a high-class animal, At present, there are so quickly as this, herd all, told, representing the Mysie,
Fragrance. Orange Fragrance, Orange Blossom, Augusta,
Kiilbean Beauty, Jilt, Mina, Victoria, Cecelia, Rosebud. Nonpareil, Buckingham such noted stock and show bulls as
Prince Victor, Scotish Fancy Prince Victor, Scottish Fancy, Vice
Chancellor, Star of Morning, Knight of Chancellor, 'Star of Morning, K night of
Strathlogie, Sergeant at Arms, Princely Archer, Morning Pride, British, Princely,
Scottish Prince, Greengill Victor (imp.), Scottish Kinight (imp.). and Ben Lomand
(imp.). The latter is now at the head
of Strictly up-to-date in in ted into Canada. Strictly up-to-date in type, a grand doer,
and an extra handler. He did a wealt, and an extra handler. He did a wealth a gilt-edged herd as he now heads, his
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$\qquad$

Maple Grove Yorkshires Imponted and canaolan. -reed






ROSEBANK BERKSHIRES
 Lefroy, G.T. P. A Toron winner Maple Leaf Berkshires. Large Engliph breed Now offerin Doctor sows. bred to British Duke (imp.). Also young boars and
sows for sale, 10 and JOSHUA LAWRENGE, OXFORD CENTRE P. O. matrani dJe: (nip.)


 and Yorkshires and Tamworths - Eithbor orbee







[^0]:    He
    point

[^1]:    SHALL WE STAMP THE EGGS
    Fdito

