## PAGES

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## $\tau_{h o}$ <br> - Persevere and Succeed:' <br> Farmer's Pdvocate and Fome Nragazine

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## EDITORIAL

DEFECTIVE DISCIPLINE IN THE SCHOOLS.

interest to your readers than that which pertain to our educational system, I may be pardoned for have been the contributions already received. I presented in your columns, both for and against present conditions. One side declares that our present conditions. One side declares that our
system is not ministering to the needs of the masses, that our public-school teachers are incompetent, and that the results obtained are not
equal to those obtained twenty-five years equal to those obtained twenty-five years ago.
The other side simply contradicts those state ments. Now, without discussing the merits either side-for both are partly right-I do not think that the real weakness has yet been touched. The fault is not with the system; that, while not direction of progress. has been working in the schools is the lack of discipline, the failure and often inability to inculcate principles of obedience and respect. Discipline was the strong feature of the old log schoolhouse, and made up for many defects, both in the school system and in the teacher. And, after all, discipline is threefourths of education, since the acknowledged aim of education is the formation of right habits-in short, of character-and, without proper discipline,
that object is utterly impossible of attainment that object is utterly impossible of attainment.
Two things at least are responsible for this loss of discipline, the disappearance of all but-a few male teachers, and the laxness of the home training throughout the length and breadth of
our land. From the time a boy reaches the third book. until he leaves the public school, he should be directly under a male teacher. Not that I mean to say that there are no female teachers ing of the term, under any circumstances, but there is a certain training and influence which a boy needs at that age, that he must get from con-
tact with a masculine spirit, or else not at all To recognize clearly the evil results which have
attended the supplanting of male teachers, it is only necessary to refer to some of the American schools, both High and Public, where there is not
single male teacher on the staff. The discipline a single male teacher on the staff. The discipine hard to remedy, especially in a time of national prosperity like the present, but one essential of
any scheme must be increased salaries. The second cause to which I referred,is simply one phase of our national life from which there is no present escape. We have passed from a sort of
Puritan discipline to the other extreme. But the Puritan discipline to the other extreme. But the time will gradually bring us to a middle course. Until that happens, any system which can be devised will be more or less unsatisfactory. At present, residence schools seem to be solving the problem with a fair degree of success; but here, as elsewhere, the results depend upon the ability and personality of the person in charge. As yet, our educational system is only in the
experimental stage, but the next ten years will probably see a vast change in it-a change, too, which will not tend towards reduced cost. More
and more the spirit seems to be gaining ground that, if people want education, they must pay for it.
Kenora. Ont., High School.

## IONDON, ONTARIO, NOVEMBER 7,1907

THE UNDOING OF THE FARMER
United States Secretary of Agriculture, James
Wilson, if he is a Yankee, is yet a Scotchman, and Wison, if he is a Yankee, is yet a Scotchman, and
disclosed, in his speech on " The Unproductive Farm," at Syracuse, N. Y., the other day, some First of all. he characteristics of his forbears. falutin about the prosperity of the "best in the world," but quickly settled down to a close analysis of the way in which the people have wasted their inheritance, describing them as soil-robbers, woodrobbers, waiter-robbers, and mine-robbers. He declared that conventions such as that before which he was speaking might be called in every State to consider the decreased productiveness of the soil near great centers of population. W
the decrease
He struggled to to farmer fought a good fight. He struggled to educate his children, and the education which the State gave them did not help led them access in fiving on the sorl, but actually led them away from the farm and left him tendency towards anything but agriculture for a career. The nation offered new farm lands for nothing. It gave away mines and forests for nothing, encouraged railways and protected the factory, emabling these industries to outbid the equipped the boys and girls for every vocation but the farm, and tempted them away.
Have we not been doing precisely the same thing in Canada
Secretary Wilson next recounted the varied and costly educational efforts made by Federal and State Governments for the resuscitation agriculture, such as the provision for agricultural and mechanical colleges in every State and Terriry, and, more recently, research and publication work through the Department at Washington. He referred to the improvement of the farm papers dary schools, as has been done in Alabama Georgia and other States These schools are ex pected to be feeders of the agricultural colleges, and will, observed Mr. Wilson, open up, to students who go no further, opportunities for be ginning the study of what pertains to their life-
But why, "The Farmer's Advocate" desires to ask, should the "begimning" date in the secondary or High School, when it is in the public school that the foundation is laid, and for the great majority of our growing population, the educational superstructure, in so far as schools can rear it, is completed? Indeed, in this
fatuous policy we have one of the anomalies of fatuous policy we have one of the anomalies of The age, which Public-schoor inspector Hughes, of last issue an educational policy thirty years behind the times. Faulty at the base, the eduoational edifice of the nation can never be right. no matter how much is spent upon secondary schools, colleges, experiments and Government demonstracourses of study, the pedagogical training of the teachers, and their subsequent oversight, must all be lifted to a higher plane, unified in their purpose, exalting the ideals of a life nearer to nature, and so training eye and ear, hand and head, that there will be the disposition and the capacpetence, and find upon the land the life worth iving.
Turning to Secretary Wilson's observations Turning to Secretary Wilson's observations on Middle States, because growing the old staple
profitable, he discerns that these very lands ar particularly well adapted to special crops and most profitable As one illustration make sistent and losing adherence to outworn methods, he cites the management of pasture lands, the area of which increases as help becomes scarce. Instead of one lonesome variety, the pasture should have growing upon it all the grasses an legumes suitable to the soil and climate, making a more perfect ration, and the cheapest for the production of meat and milk, replacing organic matter to resist drought, and feeding subsequent crops. There are few first-rate pastures anywhere. Farmers are oaught napping in this re spect oftener than in any other feature of the
farm.
Mr. Wilson, in conclusion, predicted that these neglected Eastern lands would be brought back to their primitive fruitfulness, because, being within in sight of church whistles and school bells, withneed intelligent management to return paying arvests.

FOR DRYNESS AND FRESH AIR WITHOUT DRAFTS. ences of Mr , wisdom is contained in two seil in "The Farmer's Advocate" of October 31st To-day," he says, "the great aim is to have houses so constructed as to admit as much fresh air, without draft, as possible. We are trying to make our birds fit the climate, rather than the climate the birds.
he cockmen and physicians are discovering that win same principle applies to horses, cattle, sheep, swine and human beings. Nature never intended that animal life in northern zones should live all tempts to produce such ertificially in winter are bound to result in excessive cost, while the important considerations of ventilation and exercise are almost certain to be sacrificed, to the serious impairment of constitutional vigor, and at the risk of untoward results from those occasional unwonted exposures which the best of care cannot always insure against
In writing thus, no plea is urged for pioneer rations of "brouse," or for pitiless barnyard ex posure. Judicious shelter from weather inclemency is an essential factor in profitable stock husbandry, as it is in the comfort and well-being of he human race. But there is a happy medium between inhuman exposure and irrational pamper hg, and the judiclous stockman who hits upo hat modur is, as a rule, the unthinking farmer who lowers the vigor of his animals by confine ment in close, damp, ill-ventilated stables, and then compels them betimes to shiver in the mar-row-chilling current of a morning stable draft, or maybe of a bleak barnyard prospect. There is or should be common sense in all things.
For winter. stabling, we believe in moderate protection, without coddling-moderate protection implying the provision of an atmosphere that will be fresh, dry and well ventilated, without perceptible drafts. In the past builders have labored ander a vague impression that a house or a stable wuilt be wo suilt basement celrars and strove co chink up al vision for systematic ventilation. In time we fourd that these stables were unwholesomely stufly and damp, while many were surprised to find them on! $y$ moderately warmer than the more find them only moderately warmer than the more
open byres, proving that considerable heat is lost

## the Farmer's Advocate <br> and Home Magazine. <br> thb leading agricultural journal in the DOMINION. <br> trai wiliablished werkly by

John weld, Manaozr.

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Rompem, Caimata
through thick stone walls, even though there be no exchange of air whatever. At last we have
realized the unwisdom of attempting circumstances, at least, to maintain stables ways above freezing-point, and the modern idea is for free ventilation without unpleasant drafts. We shall be disappointed if the extensive use of muslin curtain in doors, windows, and perhaps sirable end. Those who have installed stable waterworks systems may have to take them out, but that will not be a bad thing if it leads to the provision of suitable troughs in sheltered sheds, where the stock may receive a noon-day feed and exercise at will


## NEARLY 3,000 INQUIRIES

1906, to October 31st, 1907, from November 1st, 1906, to October 31st, 1907, there were, by actual count, 2,200 questions answered through the
columns of "The Farmer's Advocate." besides columns of "The Farmer's Advocate," besides
several hundred discussed in the "Home Mara. several hundred discussed in the " Home Maga-
zaking a total of well on to 3,000 . All zine, making a total of well on to 3,000 . All
these were questions actually asked by bona-fide subscribers. Some papers are in the habit of "faking" inquiries, to maintain an appearance o er's Advocate and Home Magazine ," has no tation to manufacture questions, even were disposed, for the immense number actually submitted by subscribers tax the limits of our space and the energy of our editorial staff. And yet there are no bars put up. We are bound to
handle all the sensible questions that come to hand from subscribers in good standing, but the amount of work entailed by this volume of cor-
respondence explains an occasional delay in rerespondence explains an occasional delay in re-
plies, and is one of several reasons why we canrespondence explains an occasional delay in re- Out on the Ontario hranch to. of the (irand
plies, and is one of several reasons why we can- Trunk Railway to-day, what dow forl? I slow.
not extend the service to non-subscribers or to dilatory inquirers who iorget to sign their names. or to Some of our friends might lighten our task
inquiries. the answers to which are of no practic
value. Foolish questions are oiten the hardest answer accurately. Sometimes, it seems, too that the more information we publish on a given
topic, the more interrogations it draws a subject has been fully treated by editorials and contributions, it is of the nature of supererogation yet this is yet this is repeatedly done. It would save us
unnecessary work, and do individual if he would doep his files good to the indexed and in order keed up what is pubished and, in the light of the knowledge and variety viewpoints thus obtained, work out his own par ticular problem for himself. It would lead to something like mastery of the subject, whereas the spoon-feeding system, which so many desire, militates against the development of self-reliant thinking. But, despite the foolishness of some in lieve our Questions and Answers Department is an subsecrible feature, worth far more than the yearly subscription price to every thoughtful reader. Thoughtiulness on the part of our readers can help to make it better

RAILROADS AND THE PUBLIC RIGHTS One way or another, our hustling contemporeputation for battling on behalf of public rights Lately it has taken up the cudgels for an im proved Ontario railway service, especially for the towns and rural districts. The World's conten tion is, in substance, that the two great trunk railway companies which serve this Province, having their headquarters at Montreal, habitually neglect the Province from which they each draw an immense proportion of their revenue; that they have no executive officers in Ontario with any have a patrons who have a grievance of any kind, whether it be ordered freight car, have to apficulty in securing an where scant consideratio appeal to Montreal, delay often experienced : that many of costly passenger cars are used many of the best traffic at 2 cents per mile while the through Ontario who subsidized the roads and who largely support them, are charged 3 cents for a compara 'tively slow and mean service; that the small re shamefully villages and country shipping pointo and fulfilment neglected as to character of service a degree, in fact, that the dissatisfaction of customers, owing to delayed shipment of goods, is in many instances forcing manufacturing establishment mon the small center or go the press muzzie the railroads have most of and by advertising special transportation rates number of members than retainers of the In support of this formidable indicompanies. World invited communications giving instat, the injustice and neglect. Immediately the evide
 companies fearlessly upbraided, while local parli mentary representatives were shamed into spa the Wealivity; and it begins to look as though cent has done more already to secure a de dentally, the rest of Canada as well then incitario Government's stillborn Railway and Munic ipal Board bids fair to accomplish in a century its present gait.
ly with the World's Advocate " sympathizes heart regard of public interest thaign. High-handed dis Canard of public interest by the beneficiaries of a point where the intelligent Canadios has reached stand for it no longer. A powerful waricht of that Canada require from in favor of demanding panies a service at least as goonsportation companies a service at least as goon as that offered American traffic. It is time for a change. dilatory passenger servico. hand "ed mot imiremment.refraining from sending trivial
ly dor-rmmed, shably-plush-covered seats, harc comes to buying a ticket, it is a plump, first-cto fare, and anways the fraction of the mickel to the good. We are supposed to be pleased with this rail Aud arainalers thed the blazes how late? Not if the station agent Reticence appears the station agent can help As a case in point. On Sastarished policy 2th, the writer was passemar onfog, och train for Toronto One hour and fifty min Th waited in Hamilton Why ? minutes it sers seemed to know. Some said of the passen crew to take the train others varuely allude to a wreck. No one knew, and no one inquired at the ticket office. They knew from past experience it was useless. So they sat and fumed and put in the uncertain vigil as best they could, trusting rundiverance to Providence and the Grand Tunk! The delay may have been unavoidable but no official came through the train to anthe the cause or give any information as to longer ander will the travelling public stand for deceit The frece where frankness is their first due? beoause the service is worse than the passenger, costly ported. Our columns a to have these cases retion of authenticated are open the ventilaCanadian shippers live stces experienced by produce, also the losses and annovances agricultural ers who have suffered long and driven formfreight that lincered by the way hooking
The feasibility of an improved service is proven by the invariable smartening up that follows the advent of a competing line, and it is reasonale are suppose the companies, as well as the patrons are bentited by the increased promptness, con simution and civility that results from the icityus. Where competition is lacking nub alternativough press and Parliament is the only hostility the It is, therefore, in no spirit of sense of need and public is aired, but merely a we believeed and public duty, and, in the end, the popular dom pay the railroads to accede to

WHY TEACHERS' SALARIES ARE LOW AND DISCIPLINE LAX
Although entirely aside crucial point editorials on the question past summer in our tribution by Mr. H. \&. Berlanguct, $B$ A the conDefective Discipline in the Schools,:, ., headed further and important weakness in modern school ing, a weakness which is, moreover is point out by Mr. Berlanguet, common to our home certainly is true that, from the extreme in clad Puritanic legalism, sentiment has swaro the opposite extreme of laxness, until the child has become, in many cases, not exactly the father but almost the master of father and mother fine grace of for more general inculcation of the youth of obedience on the part of American both in respect for authority, and of civility the home. With regard to the old, familiar complaint that fficiency ser low insure pedagogic f school teachors no objection to offer. Salaries shall never have are ridiculously small, and we tion until ratepayers aper standard of rural educawith the importance of it more generally seized mony in public-school Whether or not it is well ative enactment, as some raise salaries by legisquestion in which are of opinion. Rofore loading onto the humble ratepayer all might the well to infuire salaries of teachers, nor-prevalent condition, there has renew of this it not because of Model and Normal candidates IU hecause the trend of our educational sys. ther promuctive draw away from agriculture and
 wait for dilapidated old

# Novembet 

THE F'ARMER'S ADVOCATE
with the fiton of teachers for schoole ber
mand for the equine species. And the indications
are that this demand is are that this demand is going to become steadily
greater. The automobile has ceased to be a
novelty, and in the larger American cities those who can afford to do so are returning ment. in turn, was asked to arbitren the Gover is to reduce the competition way to raise salario scope and kind of competition, by introducing encourage each of eduoation that will allow and which he is "" out out." Our schools at per to fand to do this. Inintentionally, but persistently est boys away from the farm, the factory and ther to prefer positions as undue proportion of then at starvation wages, rathers, clerks or lawyers walks of life which, under a more rational various balanced and less "bookish" school influence, Temen have elceted to follow. merce, are chiefly regulated by the of com supply and demand. When public educational sys tems are reformed along rational lines, the prob em or teachers salaries, like the labor problem lowand, athers, will be advanced a long step toward a satisfactory solution.

## HORSES.

PONY OUTFITS AT BROME CO. FAIR One of the most attractive features at the
Brome Co., $P$. Q., exhibition this season was the pony outfit ridden and driven this little Miss Doris lustratd by the companion pictures in Ralston), peared ine Farmer's Advooate," just as they aps where they made a great in the grand parade, he honors won. Doris is nine vears old deserving Trixie six. Duncan Anderson, who was present the show in the capacity of a judge, expressed such features in preference to heartly commending tractions" that have degraded so many fairs and cended to ruin them as educational institutions.

## GROOMING PAYS

On the Experimental Farm at Lacombe, Alta ing and fifteen minutes ten minutes every morn of cleaning each of our horses, and in work spend, quite often, half an hour apiece in the I have been asked time and again this summer that we put in a crop of about I tell ther plowed fifty this spring, besides doing all our, experimenta work, with five horses, and took off a crop of hay of nearly one hundred tons, they all
look surprised at the condition our horses I think that it is labor well spent, for, if your horse is lazy and slow, and you have to keep
stock of whips in supply to get a day's work stock of whips in supply to get a day's work out
of him, a far cheaper way is to keep your horse thoroughly cleaned, and he comes out of the stable in the morning as if he hadn't done a day's work
for a month. A good idea is to rub the back of the fetlock joint and the pastern with the paln It is a wonderful preventive of sores, etc $\begin{aligned} & \text { at } \\ & \text { It }\end{aligned}$ the fetlock and pastern.
The horse is, has been, and will be. man's The horse is, has been, and will be. man's
greatest help in the power line, no matter how many inventions come out to take his place; and every comfort we can give him, in common sense
should be his, and the better he will do our work
lo . or
C. ERAIG.

THE SHORTAGE OF HORSES
Thene is a reported shortage of ten thousand
oals this year in the British Isles, a decrease in the horse supply large enough to be serious, and likely to be far-reaching in its results. Among
our own breeders, there were fewer colts produced this year than last, the decrease being due largely to the heavy mortality in foals at birth. In Ontario and on the other side of the line a simi age in the visible supply of all kinds of horses, while the demand in all classes for high-quality animals was never more active. It looks as if horse prices must go higher, especially values for horses of the higher grades. The motor-car was
widely heralded as the likely death-knell of the horse-breeding industry; so the bicycle a few years earlier was going to drive horses entirely from
the roads; the invention of the steam engine, a the roads; the invention of the steam engine, a
century before, seemed likely to put horses altogether out of existence. But the development of gether out of existence.
all these means of reducing horse energy for power
and motive purpose seems only to increase the de
 their garages, while are now never seen outside the boulevards and through the parks the down rquipages moved by the noble the parker of yore. The crease. They will be in lemeng to steadily innavigation of the air becomes a fixed when the Tresent indications are that they a will be a mighty tention line for farmers to give increased at-supply.-|Farmer's Advocate danger of an over

LAMENESS IN HORSES<br>SPRAIN OF THE FLEXOR TENDONS.<br>sprain of the beck flexor tendons is a frequally called



Trixie " Under Saddle.

"Trixie" Before the Carriage.
lameness in both fore and hind limbs. These ten the hock to the foot knee to the foot, and from the limbs. This lameness is more frequently seen not by any mean drawing heavy loads, but it is Symptoms.-The symptoms of this lesion easily recognized. Lameness, of more or less se-
vere, according to the severity vere, according to the severity of the lesion, will toe, not wanting to let the heel come to the ground in severe cases. Examination discovers the tendons swollen and hot in some part between knee or hock and foot. In severe cases they are
swollen their entire length. Pressure upon the swollen part causes pain, manifested by the pa-
tient tient quickly lifting the foot, and, if pressure be continued, he will rear on his hind legs.
Treatment consists in shoeing with Treatment consists in shoeing with a high-
heeled shoe, so as to throw the terdons in a posiheeled shoe, so as to throw the tendons in a posi-
tion of partial repose. Cive rest and low diet, bathe with hot water several times daily, and,
aiter bathing, apply an anodyne liniment, as one
composed of two ounces laudanum chloroform, one ounce acetate of lead, one ounce to make a pint. When the acute soreness and inflammation, have subsided, change to cold water and a stimulant liniment, as one composed of
$\mathbf{t w o}$ ounces oil of turpentine, two ounces tincture of arnica, four ounces alcohol, and water to make a pint; and, in an hour after applying the make ment, apply a bandage that has been soaked in bandage "), to be left on until time for next bathing. If a thickening of the tendons remains or lameness continues for longer than two or three weeks, a blister should be applied. In some oases repeated blisterings are necessary, but, unless the
iesion has been very severe, the case is likely to
yield yield to ordinary treatment.
SPRAIN OF THE SUSPENSORY LIGAMENT This is a ligament that extends on the poste rior surface of each cannon bone, in front of the or hock to the pastern. It is attached superiorly
or is attached superiorly
to the bones of the
knee or hock, is flat knee or hock, is flat
and thin, passes down close to the flat, posterior surnear the fetlock
 divides; one portion downwards, and the other inwards and downwards to the anterior surface
of the limb, where they join the extensor tendon of the limb at about the
pastern joint. The edges of the ligament can be readily felt in the healthy limb, and in highly-
bred,
clean-limbed horses can be readily seen. Severe
sprain of this sprain of this liga-
ment, with rupture, is oiten seen in race-
horses, and is called horses, and is called ness is very acute ness is very acute scends, sometimes ground, and the to upwards when the animal walks.
Horses that have Horses that have
suffered from this severe les on will
make a partial remake a partial re-
covery, but a thickcovery, but a thick-
ening of the part is always permanent, never again able to stand training, but
may be useful for may be userul It is
slow work. In
not of this severe lesion we wish to
write, but of ordi nary sprain of the ligament, without extensive, or, prob-
ably, withiout dny
dup ably, without any
rupture. This may
occur in any horse occur in any horse
from slipping, heavy drawing, driving
over rough ground, Symptoms.-The symptoms are not as easily igament doss noin of the tendons, as a sprained The lameness will be more or liess severe, allocord-
ing to the extent of the ing to the extent of the lesion: When standing, the patient will point the foot, and during propossible, letting his weight rest upon the heel. Careful manipulation with thumb and finger will ligate the seat of treuble. The course of the ligament from knee or hock to ,the fetlock joint exerted all the way down. When the sprained part is reached the horse will evince pain in the isual way. It will he plainly noticed that there is almost an entire absence of the local heat and
swelling that is present in sprain of either mudialar or tendonous tissue, but the sensitivenes pressure is well marked..
Treatment.-In ordinary cases, the same $t$ fice, but it is often noticed that the lameness in

THE FARMER'S ADVOCATE

cases. a longer rest is necessary, In severe cases
where there is rupture of ligament, with greater or less descent of the ock pad, it is necessary to place the patient i slings, pad between the hoof and fetlock joint be
hind with batting and bandage, in order to port as well as possible and prevent to some ex
tent the descent ther cases, should be adopted at first, followe by oold and stimulant liniments, and this followed by repeated blisters. A rest of several months
necessary.

## LIVE STOCK

## OUR SCOTTISH LETTER

HE SHORTHORN SALE
readers at this time. The great Shortherest to of the season are over, and once again ". Old a wonderful man, the old Quaker (Cruickshank) and, in the Shorthorn world, "his soul is marching on." All the same, in the midst marchnorthern jubilation, let us not forget Tommy Bates. The only remaining Bates herd of cattle in England of any dimensions is that of Mr. It was formerly at Calthwaite, in the same grassy county of Cumberland. Mr. Harris sold a draft mer, a few weeks ago, and got capital prices hamcattle have a style that you do not quite find in the thick, fleshy Cruickshank type. A blend of the two, if you get them to "' nick," does splenof that kind. Forty females Tower sale averaged females at the Rrakenburghaveraged $£ 5019 \mathrm{~s}$. 8 d . The buyers were all home breeders, and, indeed, one feature of all the Short tion of the Argentine buyers. Mr. Harris got 285 gs. for Duchess 139 th, a four-year-old cow He had 270 gs . for another Duchess, a year older and 200 gs . for a two-year-old Duchess, as well ling bull, Duke of Cumberland 21st, made 260 gs. his buyer being the well-known Gloucestershine stockman, J. T. Hobbs, Maisey Hampton, Fair ford. Other Duchess cows made 150 gs.., and gs, the buyers being Messrs. Dean, Dowsby, Lincoln, who were also extensive buyers last week at the northern sales. They are very extensive sheep. A two-year-old heifer of and Lincoln tribe made 155 gs. Another of the Duchess race made 150 gs , and a Duchess-of-Cumberland heifer leal, a well-known dairy Shortho gs., to Mr. CazaThese figures show that given breeder in Kent cared for, and not " run to seed," nothing can beat a " bit of Bates". when you come to the salering. Style and milking qualities always count
in the female, and that is as it Mr . Thornton has also had should be. successful sales in other parts of England quite The Duffryn, Newport, Mon., Mr. Richard Strat ton has a fine old herd of the Moss Ross tribe He sold 55 of these lately, making an average of
over $£ 36$ each, which was quite Shorthorn sales are also to quite good. Great Yorkshire, where Mr. Thornton conducts sales


The Northern Shorthorn week of 1907 will not soon be forgotten. Mr. Duthie broke all his pre
vious records, making an average of $£ 409 \quad 16 \mathrm{~s}$. vious records, making an average of $£ 409$ pre times the average which he made in 1889. Twentyeight bull calvas in that year made an average of $£ 45$ each, and the averages have, with little in
termission, steadily increased ever since. The highest figures this year were $750,720,700$ and 850 guineas. Last year the highest figure was was £304 15s. 10d. Mr. Iuthie and his neigh bors may well be congratulated on a week of phe-
nomenal trade. The four bull calves rrom the new Uppermill herd of Mr. John Marr which were sold at the same time, made an average of 100 gs. each, but the next best sale of the series to
Collynie was the on the Friday. There, the 56 Sanquhar, Forres, made the splendid average of $£ 759 \mathrm{~s}$. 9 d . There was a two-days' sale at Aberdeen intervening. On the first day 120 head made the average of $£ 49$
13 s . 10 d ., and on the second average of $£ 3810 \mathrm{~s}$. home buyers took the ". plums." ${ }^{\text {at }}$ There sales Argentine operators, but they either had not dee enough purses or were afraid of the vagaries
the tuberculin test in Buenos shire breeders, as the readers Ayres. Aberdeen doubtless aware, have set themselves resolutely against recognizing or giving any guarantee that cattle will pass the test. Mr. Duthie has le assuming a resolute attitude On the first day at Aberdeen, Mr. A. T. Gor don, who was recently judging at Toronto, got a high as 180 gs . and 120 gs. for two-year-old
heifers. Mr. Anderson, Saphock Old Meldrum, who has an excellent herd, got 500 gs. for a year ling heifer, which, if not a record, is certainly a very high price. Mr. Bruce, Heatherwick, who aliso owns a fine old herd, got 110 gs . for a year
ling heifer from an Irish buyer. On the second day, Mr. Anderson, Wandes, had 120 the second two-year-old heifer. A new breeder, Mr. Cor
nelius, from Cheshire, was 260 gs . for a two-year-old heod buyer. He gave Morrison, Phingask, Fraserburgher bred by Mr a yearling heifer bred by Mr. Godfrey Hill, Little Haddo, Methlic. Generally aiter the first day at
Collynit ings and two-year-olds of was for heifers. Yearmerit were making big prices. The Messrs. Law, who aro leaving Mains of seighuhar, Forres, for another big farm in that Mr. Duthie gave 170 gs. and sale the same week. of cows. Mr. Crawford, Co. Tyrone for a couple for a third cow. A two-year-old heifer from gol made 120 gs., the Messrs. Dean, Dowsby, being
the buyers. the buyers. A third Morayshire breeder, Mr. H tribution to this sale. He made a notable con-two-year-old heifer, and $160 \mathrm{gs.l} 240 \mathrm{gs}$ and 200 gs. for yearling heifers, the two highest-priced Gordon. Messrs. Dean gave 240 er, Mr. John calf bred at Mains of Sanquhar. In In the a buil noon of the same day another sale was held
the town of Forres H. Smiley, Ardmore, Laine Irish breeder. Sir if ing heifers at long prices to three fonor of sellnoted Aberdeenshire prices to three of the mos one at 155 gs: Mr. James Durno. Jockstie took a second at 130 gs ., and Mr. James Durno, West ertown. took a third at 150 gs . The week wa
rounded off with a sale at Perth on the Saturday
colonel Munro, Mains of Murthly, who has as. 34 dean about a Shorthorn, sold a heifer for 160 gs (o Sir. H. H. Smiley, Larne, and Mr. Stephen itchell, of Boquhan. ge gs. for a two-yed Stockmen generally have had a splendid on. The worst thing about agriculture just now month, but deficient in hard, drying a lovely, dry tober is half gone, and the rain has been almost every day. An immense amount of grain is still in the fields, and unless there be a cessu grower the rainfali, the outlook for the grain is black enough. It is not ordinary rain; we prices,
is
are having downpours and floods which thre to work disaster in many districts
The summer was too damp for shows are over and the quality is not up to the mark Wheth any great improveme may price cannot be foreshadowed, but meantime there is nothing wrong with the price in Scotland, al to 12 s . less per cut of getting a year ago. The Scots cheddar is pected to hold its own, because your Canadian make seems also to have suffered this year. interest was taken in the mechanical milking cows by the Lawrence-Kennedy machine. The practical demonstrations were eagerly followed and the system of milking in this way is likely Lawrence-Kennedy machine is certain been. The ful implement. Another machine is being pro
spected from the ingenious workshop of Messrs spected from the ingenious workshop of Messrs
T. \& R. Wallace, Castle-Douglas. It, too has it dvocates, and sooner or later-and sooner rathe milked in this way. see cows more and more

BUYING AND FEEDING BEEF CATTLE
About the same numberate be fed in this locality this winter. Thene will quite a number of feeders, but it is hard to get the right kind. I think the best kind to buy would be good, well-bred yearlings, so that they
would make good butcher cattle or light exporters next June. Prosvects are for When putting the oattle up, I generally feed
them on cornstalks. I have fed then hey do well after 1 have fed them rape, and dehorn. For bulky feed, our main reliance is oat at straw three times feed hay twice a day and oat straw three times, and enough that they will Two of such to bed themselves and their calves. good feed for a yearling. My this year make a oats and about one-quarter peas for ration is ing over and finishing. I think that oats are the cheapest feed to buy, for they are the best and

THE CATTLE TRADE IN ALBERTA. attle trade, has heen coritas of the Alberta meat and tions which prevail in the cattle business condi settling of the range the tightness of money, the farmers to feed cattle the rand on the part of lation, and the prevailing strong tone of the meat markets the world over, have all contributed meat shaping the conviction in the cattle king's mind fall cows and youn will be high next spring. This ranges and farms, and out of the country off the urns, seeing this cleaning-up process Alberta, has been preparing to insure his trade by contracting with farmers and applies next spring rom four and one-half to four and three-quarter for fed er pound, live weight. next spring, for win spring over fall prices. It is not a question next May; that live cattle will reach these prices alread, and the dressed-meat market will stand
it, for the simple reason that
 and a half cents and upwards. If local butchers account of the protection of distance and tariff rude from the Alterta farmer's standpoint, that, live weight. the Alberta dealer is protected by
luty and freight, and if he pays full value, it is

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reasons already enumerated, and thist owing
a good margin to the feeder men the aigh-priced. It is quite within the though feeds a be, out West, quite an april and May there will
butchers for winter-fed ctocers demand among local and the surplus over home consumption should not fall much below that figure, despite the influences
which surround the

## THE YEAR'S FEEDING PROBLEMS

a $\begin{gathered}\text { wi } \\ \text { to }\end{gathered}$
to-day. For similar to the ones which face then good and feed abundant, but this year we find
decided change. couraged to be sumewhat prodigal in their meth-
ods of feeding during the pat appalled by the necessity for strict economy now every hand we hear complaints of a shortage of
feed, and the fear of being short has created something like a panic among some farmers, and
panics always bring fresh evils in thoir is important, therefore, that every farmer shoult take time for careful consideration before becould of action only after a calmi and dispassionate
study of the circumstances by which he minds seli surrounded. selr surn. with feed for their stock, we hear talk of selling off the stock and marketing hay and grain at the that there are some so unfortunately situated that the sale of at least part of their stock is a mat-
ter of necessity. This process is sure to cause a ter of necessity. This process is sure to cause a
glut in the market of the hind of stock offered,
and low prices are who are really compelled to sell are, therefore, de serving of our sympathy, and it seems as though
there is little to offer them in the way of consolation. But, to the men who have feed, and think
it too valuable to feed to their stock, fow words if caution may not be out of place. a few words
In the first place, it must be remembered that the forced sell-
ing of stock already referred to has had a defressing effect upon the value of animals n stock on the market, either through necessity hoice, is helping on the downward trend prices. The man who is not compelled to sef
therefore, has need to do some careful calculati before selling his stock, because the selling stock in a poor market, in order to sell feed on
high market, may prove to be anything but high market, may prove to be anything but consumed by stock has very little market value, tock at of the strong points in favor of keeping working on this problem, the farmer should estimate how much marketable feed his animals will
likely consume under economical feeding likely consume under economical feeding. Then,
he can estimate how much more profit he would get from this feed if he sold it than he would
likely get if he fed it to his stock. From this likely get if he fed it to his stock. From this
margin of profit in favor of selling feed. he must margin of profit in favor of selling feed. he must
deduct probable waste due to empty stables, and the loss incurred by selling his stock on a noor
market. He must also take into consideration the probable effect on future crops of the absence
of the accustomed manure pile, and when he has summed up all these things the chances are that summed up all hese things the chances are that
he will decide upon retaining as much of his
stock as he can. In addition to all this, it must be remembered that if a man has been handling
his stock wisely it should have improved under his stock wisely it should have improved under
his management, and he may find serious difficult in replacing it, even at much higher prices than
he received. Though he may be compelled to let go part of his stock, those animals of proved must be his own judge as to what is best for him, mut let him take very careful counsel with himself before he decides to sacrifice his stock. UTLLIZING STRAW AND COARSE FODDERS It is many years since the need for economy in
feeding was so forcibly brought home to the farmer, and yet, even this year, many straw stacks are to be seen where apparently no serious effort ha.
been made to save the straw ; in fact, many of them seem specially designed to waste as much straw as possible. When the price of hay is soar-
ing, as it is this year, straw is not to be despised, and a special effort should be made to
save as much as possible of the oat straw and save as much as possite Good oat straw, run
chaff for feeding purposes. Gol
through the cutting box and mixed with pulped through the cutting box and mixed with pulped
roots, will be found quite palatable for cattle, and can be used as the main part of the bulky ration
for yearlings, two-year-olds and dry cows. If for yearlings,
some hay can be spared, it would, of course be a
great improvement to mix the cut straw with an equal amount of cut hay. The clover hay, how-
spring. (If course, the milking cows and calves
will need some meal, hut if good clover hay and
roots are available, the meal can be leopt roots are available, the meal can be kept hown to a
minimum. The yearlings would also be the bet-
ter of some meal operations according to what is at his shape his and he may find it advisable to carry some of his stock through the winter in thinner condition than who has silage this year is ordinary year. The man lage is not, by any year is fortunate, though si-
The great secret of a substitute for meal. che great secret of cheap, iceeding is to utilize them palatable. If an animal refishes to render condition than if the same foods were fed in better an unappetizing form that the animal eats them
under protest. Idle horses can be made to subsist mainly on clean oat straw and sound, clean roots. Carrots, purpose. If hay is scarce, even horses doing the good deal of straw, but some grain will to use a fary If hay is more plentiful than be necesless grain more economical to feed more hay, and horses are at heavy work, they must be fed the in the average horse stanle throughoaste of feed ry during the winter months.
If sheep are kept, any pea straw should be
arefully saved for them carerully saved for them. Pea straw should be
a very littlew, roots, and a very little clover hay once a day, will keep
them going until the lambs appear, when more clover hay and a little grain should be added to hay will have to be used, as sheep do not make good use of the straw of cereals, though they can

ECONOMICAI, FEEDING OF SWINE,
helpful. Just at present froximate knowledge is helpful. Just at present frozen western wheat is product deserving of notice attention, and it is a product will vary considerably, depending the the degree of maturity it had reached before being irozen, and its freedom from rubbish. Unfortu-
nately, analyses of frozen nately, analyses of frozen wheat are not available,
but it is reasonably certain that its will not differ a great deal from its composition Some years ago frozen wheat was tested at the Central Experimental Farm as a food for hogs. In these experiments the frozen wheat gave reason able when fed in connbination with other grains.
For all For all practical purposes, we may regard clean
frozen wheat as and frozen wheat as approximately equal to barley.
and not much behind average whe Wheat of any kind, however, should be food value. bination with other grains, such as oats, barley,
Other foods sometimes are put on the market at reasonable prices, and the farmer should always be on the watch for feed bargains. By care-
fully husbanding the feed at his disposal judiciously spending his money in purchases, the year into a prosperous what appears to be a lean mind, however, that true economy in be borne in not consist in starving the animals, but rather in food is wasted, and in freods, in seeing that no way that they are relished by the animals thus causing the animals to give better returns for food consumed

## THE FARM.

A NEW WEED
Editor "The Farmer's Advocate
The weed, belonging to in the County. O. Pollard, Yarmouth Townshi in the County of Elgin, is the most interesting,
plant that I have seen for a considerable time.


Idelamere.
Aberdeen-Angus bull. First and champion, Royal and
Shown by T. M. Bainbridge 1 cannot find any
record of its heving
been observed in
Canada before this
year year. Judging from
the specimens re-
ceived the ceived, the plant vigorous, common mustard, but it can
easily be distinguished from the latier by the dark
veins or streaks in
its its otherwise-simiby its wider, flatter seed-pods, contain-
ing four rows of ing f
seeds, seeds, by its od
when bruised an rubbed, and by the moothness and of its foliage. The ast specimen received here had had central stem
cut off, but it reovered sufficiently
send out eleven to send out eleven
strong branches
rom
oughly soft, and in this way pigs can be induced eat a larger proportion of roots. Small po boiled for pigs. Pigs eat them better if the potatoes are boiled in a minimum amount water, thus making the potatoes as dry and mealy as possible Potatoes have a considerably
higher food value than roots when properly pre pared. All kitchen refuse having any food value can be utilized to advantage in the piggery, and skim milk is exceptionally valuable in saving
grain. The object must be to make everything count to the best advantat be to make everything grains and other concentrated foods As to the kinds of grain or other concentrated fods which may be employed to best advantage, umstances that it is almost impossible to discuss the matter, except in the most general way. Generally speaking, the farmer has to take advantage most economical manner possible. Sometimes he can sell one kind of grain to advantage and in-
vest the proceeds in something which gives hetter value for the money. It is in just such cases as regarding the peculiarities of composition and the food value of the more common feedstuffs. It is true that no one can arrive at more than an ap-
a half inch thick. Its botanical name is Eruca. sativa. I do not know what common name it bears in the parts of the Old World where it is
indigenous. Mr
Mr. Pollard's account of it is that last May, in partnership with a friend, he purchased from
the Rennie Co. two and a half bushels of alfalfa seed. With this, and four and a half bushels of barley for a nurse crop, he seeded a nine-acre field.
Before the barley headed out he noticed the Before the barley headed out, he noticed that the crop was full of this mustard-like weed, so he pro-
ceeded to mow it at once. A few weeks after the mowing he noticed the weed coming again from the cut stems ; this was in July. "Then,", he says, of it that we could see. In some places they might be a couple of rods apart, in other places only a foot or two." Even this did not eradi-
cate it, for a few weekk later it was found necescate it, for a few weeks later it was found neces
sary to go through the field again. Altogether
the the quantity pulled, Mr. Pollard says, would make heap as large as a half load of hay. He notices another crop coming on now, which the frost if likely prevent from ripening its seed.
If the seeds of this weed have as much vitality have got an infestation of it, and allowed it to ripen, may have a hard fight with it. No pains should be spared to prevent ist getting back into
course, it remains to be seen how it will stand were dug up on June 27 th of this year, the in- possible, an Institute worker must be full
evident purpose of taking no chances has every- eminently successful in preserving the which was thing to commend it. In the case of pernicious weeds and insects, timely prevention is a thousand
times better than cure. times better than cure.
The specific name
plant was sometime and somewhere used for food In an old botany by Gilbert Burnett, he speaks of its having been used as a culinary herb three
centuries before his time, and adds that its strong and peculiar smell, which many people consider nauseous, has probably caused its discontinuance
J. DEARNESS.

## FLAX CULTURE

Acconding to the report of the Ontario Bureau ince of Ontario is comparatively insignificant. Ye I presume that for the past thirty years the grow ing of flax has been a comparatively common cro Mary's boasted of two flax mills, and provided a good deal of work for all kinds of helpers, in till winter, when each mill would employ twent. to thirty men till spring. As the country grew older and people grew richer, it became increasing-
ly difficult to get land for flax and labor to ly difficult to get land for flax and labor to
handle it. Consequently, the 'margin for the handle it. Consequently, the margin for the the last remaining mill, it seems, is to be idle,
and the raw fibre shipped away to te manufac and the raw fibre shipped away to be manufactured into twine. The land most used for flax is
"new," or first-breaking. There are several reasons for this. Being sowed by hand or grass-seed sower, and pulled by hand, rough ground and stumps are of less concern. It is also a grood crop to rapidly reduce the nitrogen and
fit the land for a grain crop that will stand up well. It also withstands wet soil and cold seasons fairly well, and has few fungoid or insect
enemies. As this kind of land became less avail able, resort was had to old pasture, and, in some cases, any soil that appeared rich in nitrogen
The average rental for best land has now risen to $\$ 12$ per acre, the owner to do the plowing and preparation for seed, also harrowing and rolling left in good tilth, but much poorer, especially in nitrogen, and for this reason farmers generally do not care to rent much of their land for $\$ 12$ per acre, and as-the -manufaettifer cannot well uffori to pay more, the industry must soon decline, un-
less the introduction of the flax-pulling machine (which has been invented this season) the manufacture into twine, will so lessen cost of pro-
duction or manufacture that the rent of the land can he raised. Mill-owners will also accept flax by the ton, but, as labor is scarce on the farm Farmers do not grow it for the seed or grain, as it can only be top-threshed by the ordinary ma-
chine. and not even that when we have the soli chine, and not even that when we have the seli
ceder. During the past season, flax was one the few crops that averaged fair to good. The average yield would probably be one and a hal
oo two tons per acre, thoroughly dried in th stook. It was also well headed, and would prob dary consideration. The wet weather early in th season retarded the growth on low, undraine
land. As hinted above, it is a crop that appears to would suppose that it might be profitably growi
in the newer sections of the country, the sheave top-threshed, and the straw haled and shipped to
be manufactured. It requires some care in har vesting, or much seed will be wasted by shelling It is somew

PRESERVATION OF PITCH-PINE FENCE POSTS. periments undertaken by Mr. B. C. Buffum, to termine the life of pitch-pine fence posts, and dis
cover, if possible, some cheap method them to prolong their usefulness, has just been issued by the Wyoming Experiment Station. The experiments covered a period of sixteen
hence would appear to be comprehensive. tom, (2) not treated at all. (3) treated with crude oil or petroleum $2 \hat{A}$ feet at bottom, (4) with a tar
band at ground surface, (5) with crude-oil band at ground surface, (6) with crude oil covering $2 \frac{1}{2}$ coating of tar $2 \frac{1}{3}$ feet of bottom and tar burned off, (8) band of crude oil at surface and burned off, (9) band of tar at surface and burned off, (10)
one foot of bottom dipped in tar, (11) one foot of bottom dipped in tar and tar burned off, (12) wel-charned posts, $2 \frac{1}{2}$ feet simply hurned to pro-
duce a char: $(1.3)$ one foot dipped in crude oil
(14) one foot dipped in crude oil and oil burned eminently successful in preserving the posts, was
dipping the lower ends in crude petroleum and burning off the oil a sufficient distance to come above the ground when set. This seems to drive char cover, keeps it from decay. Sixteen years had made but slight inroads on the posts thus treated, and they apparently would last indefinitely. This dipping can be done very cheaply, and will undoubtedly pay
posts in crude oil or in tar of the bottom of the posts in crude oil or in tar did fairly well. The
oil seemed a better protection to the posts than
did the coal ar did the coal tar. Posts that were well charred simply There is little advantage to be gained by simply oiling or tarring a band to protect the post from dry rot where it cones through the ground, and less from any treatment of only a
portion below the ground.
Such oil hand helped preserve the post, but the time taken to apply the oil in this manner would make it more ex-
pensive than dipping the entire lower end of the pensive than dipping the entire lower end of the
subject and enthusiastic in presenting

ASSOCIATION OF FARMERS' INSTITUTE WORKERS.
Farmers' Institute of the American Association Farmers' Institute Workers, held in Washingto cess in attendance, interest, and the value of the aried topics discussed. The roll-call showed over delegates on hand.
After the formalities of welcoming the dele gates, by Prof. Hayes, Assistant Secretary of Agriculture, who touched on his favorite theme rural schools, and who took the place of Secre some States for corn, etc... were not enough. The

Flax Field in Stook
urat President (i. C. Creelman, of the Amricur
Institute, as were a
number of or or
ofP'resident Burnett, of Nebraska, outlinedcisely and clearly the of obects and outlined con
Farmers' Institute systom of theact that the older methods and emphasized thegrown any less important, but the work was pro-
rressive, and thecessful, as they adopted and utilized wo suc-advantage, the agricultural extension workburden of his address, as well as those of manyothers of the delegates, was that the institutetact, by assisting them to adopt those methodsfarm and make farm the productiveness of theable. The valuable work which the women were
doing to uplift theSuperintendent Taft, of Michican looked.what the President had said. amilnid, emphasizedshowed that nearly every sectionan organization, and that the work some kind ofhundreds of dollars were formerly year. Wheresands are used to extend agricultural information
Prof. Holden, of Townagricultural extension work
through what might be called mormal trainine
schools and round-table talks. Dremal training utility annual of WashingtonDepends on the Men-Mr. Fi, II. Rankin, Illi-
nois in submitting a report of the Committee on
Institute ()rganizations and Method advocates in Messrs. Creelman, Ontario; Martin, use the best available help obtainable from the agricultural colleges and experimental stations for this purpose, and men who knew what they were talking about, and who could convey that infor-
mation to others in a very practical way living demonstrations way with largely tried, but Mr. Taft, Michigan: Mr. French Idaho, and Mr. Carson, Texas, thought that there
were great possibilities simple money prizes offerel in the competitions The
 Women's $\begin{gathered}\text { Insti- } \\ \text { tutus. The } \\ \text { oi Watter }\end{gathered}$
Women's Institutes found $\begin{gathered}\text { Insti- } \\ \text { able }\end{gathered}$ exponents in Miss
Maddock, Ontaris Maddock, Ontario:
Mrs. Raymond, 111 i nois; and Mrs.
Wells, New York.
Whis worm This work was prac-
ticail. new in many states, and in some was unattempted as has found its highest dowelopment, Mr. Crosby, oi
Mashing ashington, I. C.,
and Mi. Agee, of
Pennsylvania, wor very strongly in
lavor of introducing
courses ol stady in courses of study in
agriculture imto the
Institute, as wet tion extension work. Froctes of agricultural educa-
ive-day Institus outined a potato would be dealt witis irom its origin it was marketerd and made into a wholesome Prof, /avitz, Ontario, and Prof. Hunt, Pennsyl-
vania, deall with the interesting question demonstration work. It was one of the meld Zavitz, in a concisons to the Conference. l'rof Zavitz, in a concise, clear-cut paper, outlined the
work of the Ontario Experimental, Was a practical demonstration of the question at the farmers of Ontario. good to I ee, Ohio, and Mrs. Wallace, Pennsyly by Mrs. advocated along similar lines to what was said
of the qualifications oi the admitted by a number of Institute lurer. It It was she was much harder to get than mene. and when once got she was hard to keep. A11 agreed that success of the Institute systelll Rate in the iature
Travelling I Ibraries.-Mr. Rankin. Ilinois, Mr. (aalhraith, Ohio, thought that the travelling
library was a most useful thing. but deplored the
fact that their lact that their expectations, in a practical way, bege,
had not been realized. utility annual report, and Mr. Putnam. Ontarin thought the repprt of the future must be short,
and prerhaps specialize one or two important fea-
tures wach year
so that his hearers would be stimulatod mather so that his hea.
and do things.
Mr. A. M. Soule, Georgia, contended that were three things which would contribute to success of the organization, viz, the location the central office, the administration, and the
financial support it received.
Mr. Bracken, Saskatchewan, discussed it

$$
\begin{aligned}
& \text { Mr. Bracken. Saskatchewan, discussed it fron } \\
& \text { the development of new districts, in which he ad }
\end{aligned}
$$ vocated co-operation in the various agricultural

movements.
"The Institute Lecturer ", was ably dealt with by Mr. Latta, Indiana; Mr. McKerrow, Wisconsin; () and Mr. Calvert, Ohio-all of whom agreed that rather average men who were successiul in marm gractice and acceptable speakers that were doing good Should Co-operate.-It was the opinion of Mr Butterfield, Massachusetts, and Mr. Butler, North agencies was necessary using every means available which would uplift the farmer and his work.
Movable schools of agriculture found warm that much of the surcess of the organizatious was
due to the men connected with them. As far us
novemiber
THE FARMER'S ADVOCATE

Mr. Raynor, of omtario, gave some olservations
on holding such taectings in Ontario, to improve
the production
 them. Mr. Elliott, Ontario, though that monthy
meetings, well organized and worked properly.
were productive were productive or much good, and encouraged the
spirit of co-operation. Resolutions pertaining to more financial sup port by the Federal authorities. the nancial sup-
Tederal experts through the linstitute orna of Utions only, the encouragement of agricultural exalthough no longer a surerintendent, should con-
and wise counsels the Association by his presence and The report of the nominating committee re sulted in the election of Dr. Butler, North Caro-
lina, for President ette, Vice-President; John Hamilton, WashingtonD. C., Secretary-Treasurer; and Messrs, Putnam, Dakota, the Executive Committamberlain, South It may be said a most successful convention was closed, in which much of a helpful nature
must have been gleaned by every Institute delegate present.

## THE DAIRY

## THE LONDON, ENGLAND, DAIRY SHOW.

At the annual dairy show, held at the Agricul-
tural Hall, Islington, London cows competed for the prizes in the inspection and two-day milk and butter tests, and, as an idea of the extent of the show and the variety of interests eepresented, we mention that the total number of ry, pigeons, chese, butter, hams, bread, houey The Agricultural Gazette in ite renort of the cattle, says: ". Year by year the numbers of shorthorns entered for show increases, and upon the present occasion they were considerably in ex-
cess of former years; and, as if to demonstrate the dual-purpose character of the breed, the maority of the exhibits possessed all the typical features of the beef-producer, whilst comparing lavorably in the points indicative of dairy quali-
ties with the purely milking breeds. Probably ro better lot of dual-purpose cattle had ever before been seen at the dairy show, even those animals nterea in the non-pedigree classes showing more of the nondescript, milking-machine type of any, being in evidence. In fact, so great was the merit in both the pedigree and non-pedigree cow classes that the judges gave an extra prize in
both. The show of the breed was, in fact, an that is now being paid to the pedigree milking Shorthorn, which not only gives a satisfactory account of itself at the pail, but, when its milking
capabilities are waning, will quickly put on ihe capabilities are waning, will quickly put on ine
flesh essential to render it a remunerative beefproducer that will appeal to the butcher who will prot be tempted by the cow, the buas left all her
notstance in the milk-pail." substance in the milk-pall
In the milking trials, the 12 -year-old cow, Melody, the third-prize winner in the registered
Shorthorn class, by inspection, yielded, in the two days, 137.7 pounds milk, the average fat percentage being 3.07. In the class for Shorthorns not eligible for registry, Mr. Nelson's Daisy, whose picture is given in this issue, placed third in the
inspection, was easily first in the test. She gave 120.06 pounds of milk in the two days, average test 6.3. In the one-day butter test, she made, from 61.02 pounds milk, 4.0 t pounds butter-a remarkable record, indeed. The third-prize cow
in the unregistered Shorthorn class, in the milk. ing trial, gave 135.6 pounds milk in the two days; and in the butter test, 2 pounds 11 ounfes butter in one day.
The Jerseys, w
The Jerseys, while making a strong showing in the inspection classes, were not as strong in
the milking and butter tests as usual at this show. The first-prize cow in the milking trial, Mr. J. H. Smith-Barry's Post Orbit, gave 78.4 pounds milk, testing an average of 5.22 in the
morning milkings, and 6.50 in the evenings. The In the butter test, the first-prize cow, Post Orbit yielded 2 pounds $4 \frac{3}{3}$ ounces from 38 pounds milk
182 davs after calving
The second-prize cow 182 davs after calving. The second-prize cow
made 2 pounds $9 \frac{1}{4}$ ounces butter from 40 pounds made 2 pounds $9 \frac{1}{4}$ ounces butter from 40 pounds
11 ounces milk: ratio. pounds butter to pounds 11 ounces milk: ratio, pounds butler to poun the
milk, 15.78 . It is said that seldom have the inspection and the milking awards so often gone to the same animals, though, in the case of th

THE RISE OF FOODS AND DAIRY FARMING
Your queries in reference to the food supply
for stock open up a rather wide question. In the
first wace the scarcity first place, the scarcity of feed is greatly one the
estimated. At Annandale we have Ied as we ever had. In some things we are little less, but in some a little more, and I be-
lieve this is true of sevenal it is true that there several other places. Of course, has been a partial failure, but then we have there had that before, and still have no great rise in price over the whole country. in the price of feeding stuffi of all kinds. There tion of a shortage would not raise prices so much so early, In fact, the rise in prices might be considered about what we might expect from the fact a very fast rate. Towns and cities have been growing, while the country, as a whole-the pro-ducers-have been at a standstill, if not decreas-
ing. Of course, when consumption increases than production, it can be only a question of time until there is a shortage of production. Perhaps
some of us who have thousht a some of us who have thought about this question
did not really expect to see it in now that it is here, it looks very much as if it
were here to stay, and the question will be not "Back to the Land"" because it is a will be not better life, but "Back to the Land "or starve.
We have seen something of the increase in thi We have seen something of the increase in this
country of the urban population over the rural country of the urban population over the rural,
hut those who have travelled in the States will
see a greater
closer, untll now we find the cheese going out o the factory all summer scarcely a week old, in many cases onty a few days from the hoops. We
probably see herce the reason of the shipping. the green cheese. In spite of the cry that has been against it, it has still been taken right up be that the food supply is true reason will likely the dealers did not like it short; and, although had to take it or do without. Another reason taken it would look as if consumption had overwill find rather a shortage. While I consider that the shortage of this year's crop is overestimated very is no doubt that the produce is selling at a feeder-the man who that is where it affects the mostly into manufactured produce, whetper Taking, for instance the production of bacon The supply of hogs has been rather short. What of hogs is cut down, as, no doubt, is the case In fact. I know of some farmers that have killed Off their fall litters, rather than raise them. Young pigs, in fact, six or eight weeks old, can-
not be sold at a price of raising them, and if prices for the fat hogs are not raised, unfoubtedly the best way would be for the farmers to kill ofl the little pigs, because there is not much profit in winter hogs in any case. It is not a question of so high it will pay better to sell the grain than to feed it to the hogs. Of course, this must make a great shortage in hogs produced very soon, bespring, either, and cutting down the feeding of
$\qquad$


Daisy.
English Shorthorn cow; not elegible to registry

a wonderful growth, and we often wonder reatily how many of the inhabitants live. All those of produce to satisfy them somewhere. On the other hand, throughout many of the States the
farms have been abandoned, and probably in place is the production greater. In fact, it could not well be because the population of the rural communities has been decreasing, but, by the aid of improved machinery, farmers have been able to bly have nearly reached their limit there
Then, the opening up of the Northwest has produced a lot of grain, which has helped to stave off
the scarcity of produce, but now they have a shortage the prices at once rush up. What would it be if they had had a greater shortage? In fact, is not the world's food supply getting too low? Statistics would not be altogether to be cause allowance would not likely be made for the change in the condition of the country. Formerly, grain used to be held over sometimes from year recent vears. Farmers keen feeding thet done in and, as they grow the grain calculating to feed it, they would not carry much over, no matter what the ruling price might be. We see a better e ducers are selling up in the chesese business. Not long ago several months' cheese would be in the
storeroom at the factory, and in many cases cheese was carried over at the factories all winter,
irst and silver medal, Lo silver medal, L
$\ddagger$ oz. butter from
milk, $5.84 ;$ quantity of grain to he marketed. In
fact. I consider that on the conditions in crain own country, heaner next spring than it is now: but no doubt there is a
shortage in other places which seems sorb the crop. then, to the down, business, we find,
as dairy produce is more perishable and less, carried on
hand, the rise in hand, the rise in
price is more sensiprice is more sensi-
tive when a shortage comes, and the
rise comes more quickly. Although grain and feed may
seem high to feed, yet milk and all its products are rising
proportionately, and proportionately, and
there is no doubt but what no doubt will be quite as high for milk and
its products as the extra price fact, already people are talking about $\mathbf{g r a}$ in and $50-$ cent butter, but 30 cents is quite a rise from what
it formerly was, when we used to sell at this time of the year at 20 cents. Cheese is taken right up to the hoops, almost, not being kept in any rise there. What is also helping to raise the price of deiry
products is that the deme products is that the demand for milk has been
spreading. The condensaries are increasing in spreading. The condensaries are increasing in
number, and we may easily know by the price number, and we may easily know by the price a profitable business and can pay a good price. Of course, this milk goes into districts where
dairying is not carried on and it dairying is not carried on, and it opens up other
markets for dairy products. The outlook then for dairy products is very good, at least from the producer's standpoint. The consumer, probably will not feel so good over the high prices, but we are now considering the producer, and not the
consurher. Undoubtedly, there will be a decrease in some quarters of the production of milk, because many always do get cold feet very easily;
but for those who have been doing their best to but for those who have been doing their best to
produce plenty of the right kind of feed and im produce plenty of the right kind of feed and im
prove their cows, the dairy outlook, I should say was very bright.
Coming to your questions, then, feed being high
in price, even if it is grown, it will be the in price, even if it is grown, it will be the best
policy to feed it to those cows that are in the policy to feed it to those cows that are in the Those cows that have been milking all summer and are not producing so heavily, would probably
be better if they were dried up when they get

## IIL FARTMET＇S ADVOCATE

down to a sill
better condition for next years business；but in of it，to produce nine，ten and eieven thousand many who have cows fresh in the fall and winter them，and the increase in the price of milk will pay well for the increased price of feed．Besides， if cows that freshen in the fall and winter were
allowed to go down in their milk now， be practically useless next summer，when feed will be cheaper and grass comes，and there is no doubt whatever that the price for the products will still be high．
winter milky，we have plenty of ensilage production of the cattle we have from now until grass comes，
longer．We have longer．We have also a good supply of sugar cat green and well saved．Wull of straw，which was the basis of a good food supply have here，then， have also about the usual supply of hay，and our
way of feeding is to feed the anime way of feeding is to feed the animals about all the
silage they will eat，and all the stre siage they will eat，and all the straw they want． will depend upon the state the cow is in and how much she is producing．The same way with mangels．Those that are fresh and milking he ly will be fed more mangels，and a small quantity o vary any from the usual practice of feeding because the produce is selling at an increased price，quite as much as any grain or bran we may
feed them．Not only that to the future of only that，but we have to look
down herd．If they are let go down，it would take considerable time to get them
back to producing right back to producing right．On top of that，again，
as mine is a pure－bred herd as mine is a pure－bred herd，and we raise all the
calves from the cows，those that well fed and not kept in good condition will been likely be as good as from cows that are in not condition．A man who has a pure－bred herd，or stances，to allow his herd to ander any circum－ will net us about $\$ 1.50$ to $\$ 1.60$ per 100 pouk this winter selling to wholesalers，and condensors are paying about the same．GEO．RICE
Oxford Co．，Ont．

## A YEAR TO PROVE THE GOOD FARMER

 Editor＂The Farmer＇s AdvocateFeed is
Feed is so high this fall that farmers are cent．of the ordinary number of cows will be kep over this winter．Hay is now worth $\$ 18$ per cake $\$ 34$ ．Oats are exactly $\$ 2$ cents $\$ 25$ ，shorts $\$ 33$ ，oil these prices，bran and oil cake seem the cheapest especially for those farmers who have silage from
fairly well－matured corn． I always advise economy in feeding，even whe ood supplies are plentiful and low in even whe by economy，I mean that nothing shall pe wastod； that is，everything eaten up．Moreover，to be quantities of feed a cow must receive only such that a poor cow can never be economically feans This is one price of feed may be．
high prices for millfeed and roughas believe that benefit to the farmers，for it will teach the feed carefully and to discard their teach them to other good thing is that the progressive farmer，
whose modern methods are the one most likely to are usually laughed at， and the effect will be to open the eves of less－advanced neighbor；for any fool can his dairy cows and make some kind of a showing milk and butter comparatively hand prices of food supplies are very high－priced，without any kind of a proportionate advance in the price of dairyman，who knows what his cows are careful will have his innings． I cannot advise
the way mentioned above．Our method of feed－
ing is not the best，perhaps，and misht not suit e it for what it is worth．We each cow according to what she does．is to feed speaking，we give about 40 pounds of silagerally
10 pounds of hay per cow per day A pmall cow will prothally per day for roughage one more．We soon find this out and a big cordingly．There should the practically act ac left in the manger when the cow has finished her
meal．The grain ration is four pounds of rail then is about one pound for times go out of the we might give a little more to a heifer instance， first calf，so as to keep her milking as long her possible；also to a few of our cows which are get practically all the millfeed they will These But we insist on this latter part of the contract
betweem them and us． ful quantity of mose cows have given a wonder－ ful quantity of milk on hardly any food at all，
pounds of milk in a jear．As long as they pay don＇t begrudge them leave us a culr prom，he they do not gay them what they get；and when body to eat pay for what they eat，we get some－ To feed this way，as it has been said over thousand times，requires the use of scales，Bab－ cock tester，and a knowledge of what the cows eat．Nothing extraordinary about the matter，
just a close attention to business know how it pays；in fact，buthing more than th smallest storekeeper would do－keeping track of what we give and what we recaive It is impossible to say which feeds should be instance，when immature corn is put in the silo and you have alfalfa as roughage，you would be inclined to feed some corn meal if it sold about the same price as bran．But suppose－which
does sometimes happen－that a few of your best cows will not eat corn meal？What are you going to do？You can＇t force it into them the same as you would a dose of castor oil．So，you must know
accordingly．
Generally
Generally speaking，however，the farmer would be helped quite a bit by having some idea of the stance，it would the different feeds．For in－ which are would be folly for me to grind oats， instead of bran，which I can buy for $\$ 25$ ，for it has been conclusively proven that ground oats are dairy worth about 10 per cent．more than bran for at $\$ 25$ cows．If，however，a man only had bran， would pay him to buy ground oats at $\$ 40$ per ton，and even sift these oats，for bran is too pig，which would for the stomach of the young

Woodland Victor De Kol．

## Holstein bull．Second in class，Ottawa Exhibition，1907

supply of alfalfa． 1
1 milk by feeding an allowance oi bran give more in addition，but it would greatly increase the
cost of production． cost of production．
We have a
（grain）in the silage，and of well－matured cor （grain）in the silage，and the alfalfa takes th
place of bran very well，at very small cost When feed is short，there is a danger of becoming thin and being badly infested w Let farmers look oarefully aftor this，use some of the many good preparations sold for their de thousard．
Ontario Co．，Ont．H．GLENDINNING．

NEW BRUNSWICK DAIRY PROSPECTS．
解 nay be considered the dairy cows as usual，as this ince，and producens are looking forward to better prices for milk supplied to dealers in St．John， St．John trade is steadily increasing year by The thus cutting into creamery business as time gces on．Personally，I think it rather a backwoods fashion to economize too much in feeding．I fed well，and，while feed should be carefully fed－ not wasted－I would advise a well－balanced ratio believing，with fairly good grain crops，straw can be fed at least once a day with profit while the roots last，thus saving hay to some extent．
My plan of feeding may not proval of dairymen generally，but it suits ap








I may say，in concluding，as it has been said bedding evened for years，that the farmer will have to keep closer plentiful，fill up their mater milking，if stran and tab on his business，or else he will be forced to be eaten with a telishangers with it，and it will
quit farming．Keep fewer cows，only the best．put under them weigh and test the milk，take some means of knowing approximately what you feed them，and groping in the dark，you will surely，unless you come to grief and go out of business．some da Quebec Co．，P．Q．GUS LANGELIER．

ALFALFA TAKES THE PLACE OF BRAN
In this section of the country there is enough grain is inducing many farmers to draw it or warket．On this account，it may tell against is scarce，and has to be purchased Where feed prices，it will require great economy to current profit out of winter dairying，even with the goane a prices for butter，with the average cow．I would
suggest that farmers let milkers go dry and keep them uns that are light tion through the winter，so that they will he
ready to produce milk when they ready to produce milk when they freshen in the
spring．A dry cow can be hept much che well the good milkers，and hand，I would feed may surprise many owners of cows． For profitable procuction of milk，it requires good cows，cheap feed，and the right kind of a a half we have not spent one the last yar and
stables cleaned manure cellar） by help：then
milking ：
then roots（or，later in the winter，scalded chaff or cut stuff with grain mix ed）．After break fast，
turned
cows
out a
to drink，bedded and only takes about
hali hali an hour，
more or less，for twenty cows．They lie down leit to
until time beiore milk on of dry ieed， dlings or mid－ grain feed，is giv－ put under them．If enough grain and roots are well，too． r can oversee the of this plan are that the farm－ of the day for other business；the work is noest all done morning and late aiternoon；the cattle
are more contented than with noon forly seem to do better，with considerably feeding，and King＇s Co．，N．B．
H．T．HAYES．

PAYS TO FEED GOOD COWS WELL ciations afford some interesting in cow－testing asso ations afford some interesting and striking asso $2,139.1$ lbs．fat ；St．Marc，Que 114 cows， 4895 bs．milk， milk， $2,675.0 \mathrm{lbs}$ ．fat St Que．， 114 cows， $60,045 \mathrm{lbs}$ ． \＄． 4.55 tbs．milk， 3.304 .8 lbs ．fat． Pr ． 113 cows， ne same number of cows，the owners id the $27,660 \mathrm{lbs}$ ．milk and $1,165.7 \mathrm{lbs}$ ．fat more than arly valuable nowadays．It Bays rosper have then farmers in the association at St There is a first－rate foenting soiling crops this summer． Why in operation．Some average yields per cow at
$\qquad$ Mos．fat；Culloden，
milk， 3.8 test， 22 ． t Jonquieres，Que
4.4 test，Jonqueres，Que．．

$\square$ ＋



> 號


WILL need to economize grain
$\qquad$ In reply to your inquiries regarding feed con－
ditions in this locality，I beg to submit the fol－
lowing answers While the number of hogs fattened or wintered
may and probalily will he mater do not think there will be materially reduced，I
number of cows milked，but in in the economy in feeding than usual，especially grain．It
seems to be the cencral no profit in feeding much grain to any kind of
stock at present prices．I am under the ind sion that very satisfactory results can be obtained and mixing cut straw and hay with pulped roots （1）profitable fed without grain as with it，at present prices of feed grain．I would suggest that the
above mixture be prepared a meal or two ahead and moistened，if necessary，so that it will start allow it to become mouldy or，however，not to if a farmer has grain of his own growing，I think it would pay to feed it with the above mixture in grain for feeding， grain for feeding，I would advise extreme economy
in feeding it． Ontario C $\qquad$ Corne foster．

20，778 POUNDS MILK FROM ONE COW IN 12 MONTHS
Visitors to the Ontario Agricultural College during the past summer were shown a Holstein－Friesian cow，
called Boutsje Q．Pietertje De Kol，which to produce twenty thousand pounds of milk within the year．As a matter of fact，she has actually exceeded
yhis estimate．From October 27th，1906，to October this estimate．From October 27th，1906，to Otcober
$26 \mathrm{th}, 1907$ ，she has given 20,778 pounds of milk，test－ ing a fraction over 3.76 per cent．，and containing charged up by the College authorities，was $\$ 72.66$ ．The value of the butter－fat，at pricos that have been paid neighboring farmers by the College creamery，was
$\$ 190.38$ ．If the 20,00 pounds of skim milk 190.38 ．If the 20,000 pounds of skim milk and but－
ermilk were to be valued at，say． 20 c ．per cwt．，it would amount to \＄40．Adding this to the value of
the butter－fat，the total yield of butter－fat and skim the butter－fat，the total yield of butter－fat and skim
milk would equal $\$ 230.38$ ．Deducting the cost of feed， we have a proft，over feed consumed，of $\$ 157.72$ ．At
the prices for cream which have been received during he past year by her former owner，Mr．Geo．Rice，of Tillsonburg，Ont．，the butter－fat in this cow＇s milk
would have been worth $\$ 224.57$ ．The skim milk in this case wouid have been，say 175 cmt ．，worth $\$ 35$ ， making total proceeds of $\$ 259.57$ ；or a profit，over cost of feed，of $\$ 186.91$ ．To state this cow＇s record an－
other way，according to the rule for estimating butter： other way，according to the rule for estimating butter，
yield by adding one－sixth to the butter－fat，the
estimated quantity of butter which could have been made from this cow＇s milk was practicilly $912 t$
pounds．which is about six times the yield of the pounds，which is about six times the yield of the
average cow of this country．This is a wonderful average cow of this country．This is a wonderful
ecord，one which very few cows would be capable of of
making．Prof．Dean writes that so far as he is aware， it is one of the best，if not the best，ever made in
Canada，and he doubts whether any cow beginning her
record before sho was

GARDEN 袼 ORCHARD． HORTICULTURAL PROGRESS

Macoun，Horticulturist，Central Experimental

Lfad arsenate and Paris green The growing popularity of arsenate of lead du ing recent years has been quite marked．Horti－ aris green，but cheaper，was desirable，and whe became better known，many of arsenate of lead a trial，with the result that it is takiking the pave it of Paris green in some places．
A bulletin was published recently by the Con entitled Experiment Station，New Haven，Conn． which these two insecticides are compared，in ical analyses given，and formulas recommended P．Street and W F Britton was prepared by $J$ The partial
Paris green in water resulting in injury is a weakness in this well－know poison，for，while bad effects of the arsenious oxide may be obviated ways used，and bad results from burning of the foliage are often reported． Arsenate of lead contains arsenic in a prac－
tically insoluble form，making it possible to use more poison without injury
The chemical analyses of eleven brands senate of lead showed that they differed consider ably in composition，the arsenic oxide ranging from 11.29 to 21.91 per cent．The Vreeland the highest percentage of arsenic ork）showed 21.91 per cent．Swift＇s arsenate of lead，which has been sold in considerable quantities in Canada
during the past two years during the past two years，ranked fourth，with
14.91 per cent．．All the samples except Swift ， were taken from stock which was on hand in the Station Museum．Swift＇s was bought on the open market．The author states that，＂Allow－ ing for the variations in the process of manufac－
ture，it would seem that the content of arsenic oxide in the various commercial lead arsenates was conditioned more by the wetness of the ma－ terial than by anything else．The content of to 58.44 per cent＂， Arsenate of lead keeps in suspension longer
than Paris green，which is one of its advantages over the latter，as it insures a more even distribu－ arsenate of lead in the form of a paste，as it will stay in suspension longer and will distribute much better than if the material is dry，although，even when dry，it stays in suspension longer than Paris
green．It is said not to be quite so effective green．It is said not to be quite so elfective is probably due to the fact that the Bordeaux mixture renders it quite insoluble． The adhesive properties of arsenate of lead are
greater than those of Paris green．It is claimed greater than those of Paris green．It is claimed
that a single application of arsenate of lead will


Boutsje Q．Pietertje De Kol

give as good results as two or three applications
of Paris green，as it will adhere to nuch longer． Arsenate of lead contains only from one－thind green，hence must be used actual arsenic as Paris green，hence must be used in much larger propor－
tions；three pounds to a barrel of water is what is usually recommended．Used in such large quantities，it is a little more expensive to use than Paris green，but the results are said to more than offset this．The manufacturers＇prices for ＂In 100－pound kegs，from 9.5 to 13 cents per pound；in 5 to 20－pound buckets，from 11 to 18 cents per pound；and，in 1 －pound cans，from 11.5
to 17 cents per pound． ${ }^{2} 17$ cents per pound．
o rapid as Paris green，hence in inseots is not sects which are eating rapidly－like Colorado po－ tato bettle－it has not been found so useful at the Experimental Farm，for the first application，at greater adhesiveness，however，it is account of desirable for the later sprayings．It is recommended in the bulletin to use arsenate of lead a little sooner han Paris green would be used，to make up for

HOMEMADE ARSENATE OF LEAD
The formula for making arserrate of lead is ounces of lead acetate or 20 ounces of lead nitrate dissolve gallon of cold water；also，separately， dissolve 10 ounces sodium arsenate in three quarts sels．Pour the separate solutions into the spray tank，containing from 100 to 150 gallons of water；a white precipitate of lead arsenate im－ nediately forms．This preparation may be made injury to the foliage．The freshly－precinitated omemade arsenate seems to keep in suspensio better than even the best commercial prepara ions．
Th
The

The formulas recommended by the writers are pounds：wor Lead Arsenate：Lead Arsenate For Paris Green：Paris green， 1 pound；fresh Paris green， 1 pounds ；air－slaked 80 gallons．Or A great advantage that Paris green has ove arsentate of lead is its intense green color，mak ing it impossible to mistake it for anything eise thus fatal accidents from using it for something
improvements in vegetables Up to within recent years，nearly all the new offered for sale were produced by seedsmen． the experiment stations have taken up the work o vegetable－improvement，and the New Jersey Ste
tion，at New Brunswick，N．J．is one which been among the foremost in this work．The re－ port of the Botanist，Byron D．Halsted，for 1906 contains 138 pages，in which are described the
many varieties of vegetables produced，the object in view in the cross－breeding experiments，and the methods employed in the work，with descrip－ tions of how the work of selecting and breeding rue to type is done．
The principal vegetables which have been used in breeding are beans，corn，eggplants，squashes
and tomatoes，although some work has been done with Martynias，okra，onions，work has been done fy and udo．A stringless snap variety of bean， with fleshy pads，bearing small white seeds，and with beans．Ane of the main objects in the work wich beans．A greater length of grain in medium and，as an example of the parents used to obtain this，mention may be made of the Country Gentleman and Stowell＇s Evergreen．
A new egg－plant，with bell－shaped fruit，pink
outside and white within outside and whit oricinated whit in squashes，earliness with
In squashes，earliness with productiveness in
sought，also a new shape which is neither flat no crook－necked，but broad and with a short，straight neck．This squash is to be free from warts．The
ising results． thought desirable to originate a to It has been thought desirable to originate a to－
mato somewhat the shape of a goose－egg，with mato somewhat the shape of a goose few seed cavities，although the ideal Onc of the most prom ising tomatoes produced is the Marvelsosa，a cross bet ween the Marvel and Ponderosa，which was
tested at Ottawa this year and found to be quite promising．． A large number of varieties have been already
originated by Prof．Halsted，and seed was dis－ tributed last spring to a number of experimenters． ticultural Progress．＂of these varieties，with notes on those which were thought to be of great est liromise at the Station．A collection was re－ ceived at the Central Fxp．Farm，and some of
the new things are quite promising，though in

THE FARMER'S ADVOCATE most cases the variety does not come sufficiently WINTER PROTECTION FOR STRAWBERRIES.
true to type to be reliable. In the New Jersey
report there are published reports of a large num-
ber of person '" The Farmer's advocate'"
bers who have tested the new vege- I have a strawberry patch which I have trained
( record. Save the pieces of your scattered apiary, for
honey is honey just at present, and the man who and ber of persons who have tested the new vegecommend itself to the vegetable-growers, as in the past, so-called no veltetable-growers, as, in often nothing more than old vegetables under new names.
Second Annual Report of the Ontario Vege-
tablegrowers' Association,
The Second Report of the Ontario Vegetable growers' Association for 1906 appeared some weeks ago, but has not been noticed in this so young a society, and contains a large credit to very practical information, given by men wht of commercial vegetable-growers themselves. prize essays on potato, cauliflower, celery, and onion culture are worth several times the
membership fee of $\$ 1.00$, and ginner in market-gardering, they mipht a be means of saving or making many dollars. Other interdsting articles in this report are : " Experi Under Glass,", ". Forcing Grand Rapids Lettuce Under Glass,", ". Fertilizers in Relation to Vettuce "abegrowing," "Morcing of Early Vegetables," The report is published by the Department Agriculture, Toronto. The secretary of the

## PROTECTING FRUIT TREES FROM MICE

 ruit trees every year by mice, which pirdle tham ing the days and weeks following heavy falls of snow and coming upon young trees ground in search of food and coming upon young trees commence to gnaw thebark. As a rule, they are not very tate orchards where clean cultivation rubbish allowed to accumulate as a shelter for them; but, even in these, it pays to provide sole protection against mice and rabbits.
Wooden veneer wrapped loosely about the trunk and tied, has been found an excellent means of proof sunscald, being, for this reason, particularly commendable for northern districts, where sunscald is often base of the trunk earth about a foot high around the ful and timely trampling turn mice, and even caroly effective, though as this chore is liable to be neglected at cruclal times, it is not advisable to to be
the plan of painting the trunks. Last year before the Ontario Fruit-growers Central Experimental Farm, Ottawa, reported ver avorably on the results of experiments with painting not recommended for peaches mice. The paint was Virginia Experiment Station some injury to the trees occurred from its use. For apple trees, howevgr virginia. Ready-mixed paint should not be wed it may contain some injurious mineral oil. White lead and pure linseed oil should be mixed together to a consistency about the same as for an outside coat on
a building. With this, the lower part of the tree Still another, and a very good form of mice pro tection, is wrapping the trunks with building paper,
and, judging from Prof. Sears' 1906 annual report on an experiment tried at Truro in the winter of 1905 to 1906, ordinary newspaper proved quite as effective as Wrapped wither, each in November, 1905. In an orchard
of some hundred of some hundred and seventy-five trees, only one or
two lost the papers by blowinver two lost the papers by blowing off. This is often a
serious trouble, but can lieves, by the proper method prevented, Prof. Sears be-
This we describe as "Our system has been to start with one corner of the sheet of paper, and wind it about the trunk, be-
ing sure to start low enough down so that the per ing sure to start low enough down so that the paper
Will connect well with the ground at the bottom of the
tree. This brings us on tree. This brings us out, at the end of the operation,
with the opposite corner of the sheet, and gives and tear it off, which is a common difficulty with of the sheet. We end by tying the paper at three If you decide on this plan, we shall he pleased to
hear as to which you find more satisfactory.
Ontario Agricultural College

## APIARY.

Find a

## SAVE THE PIECES

he bees. The winter and spring werable one forood results in wintering and spring were both against
ow the up tor the honey where extra good preparations the the ade the previous fall, and extra creparations had been spring. Then the honey flow, which should have re
warded the eftorts warded the eltorts of the spring, failed to materialize in a great many places, and, as a consequence, there the winter and spring. This naturally had the losses of
ing effect on thecourg ing effect on the owners of the bees, many of whom,
no doubt, last fall were caraless in no doubt, last fall were careless in pees, many of whom,
for what proved to be an even more disastrous bees
ter and tre and a spring which apiarists wore disastrous win in future refer
to as simply desperate. And the to as simply desperate. And the summer which refor
lowed, such as it was. honed, such as it was, produced practically which folThis series of setbacks, following one another withOut a break, has resulted, allowing one another with-
large decrease in the number be expected, in large decrease in the number of bees in this part of
the country. Indeed, it is estimated in a the country. Indeed, it is estimated by those who of
in positions to know best, that there are
than than a quarter as many colonies in the are not more there were some three years ago. Further, what beas
there are left are not for the approaching winter to be in such good shape for the approaching winter as they would be aatter a
time of prosperity, so that severe losses may result in
a great many places acain a great many places again nexe winses may result in
and the already depleted and apiaries may lo. hrokng.
still smallerBut don't throw up the spongo yet, Mr. Beekeeper,
no matter how hard yoll may have heen hit. Any
game that is worth yots
game that is worth rtrying is worth playing to a
finish, and if you have any bees loft, even if it hum unly
one last colony, kive them all
finish, and, if you have any bees loft, ceven if it h., uml.
one last colony, five them all the care und preparat
tion you know of, just ns if they had stored a
$\qquad$ to narrow rows by cutting the runners. I would my patch if I plowed I would be likely to destroy each side just about freezing-up time, and rew from the same in the spring by harrowing, or, perhaps, raking it off. I expect to cultivate continuously in the spring until ripening time, and would like spaces after pioking-time, and, after it cultivated so, plow the old row over these new rows for their winter protection
Ans.-We have never trien of managing strawberry plantation, hence suggested in a position to speak definitely upon it. Howover, I would have some doubts about the success of the thing. In the first place, although it
might be quite possible ditions, to cover the plants with favorable conhave them come out all right in the spring, and more likely, however, that the earth covering regard to renewing the plantation trogain, with patch after picking, we plantation from the old not a satisfactory method.
cover the plants would reoommend would be to cover the plants lightly this fall, as soon as the
ground freazes, with a mulch of loose, strawy ma-
nure, or other nure, or other such material, which will be suffl-
cient to protect the plants cient to protect the plants from alternate freezing
and thawing, and yet not heavy and thawing, and yet not heavy enough to
smother out the plants. This mulch should be smother out the plants. This mulch should be
removed as soon as danger trom frosts is over in the spring, and left as mulch between the rows.
This helps to retain soil moistune quite as woll by cultivation, and protects the fruits from being splashed with soil during heavy rains. It also after rains without gether the fruit immediately the whole, I think this is not only a better, but a cheaper plan than keeping plants cultivated up

$$
\begin{aligned}
& \text { ill the fruiting scason. } \\
& \text { With regard to renew }
\end{aligned}
$$

proved repeatedly that the best resultan, we have selecting vigorous young plants from a new from tation which has not yet borne fruit, and plantallowed to fruit the first season. If these are not sufficient runners to make a row of shoold make plants for fruiting the following season.
There is strong to find out definitely just experimenting, however adapted to varying conditions. methods seem best that you try part of your plantation would suggest you have outlined, and the other as I have described, and then you may see for as I havelf de
will be more satisfactory will be more satisfactory under your conditions.



 Lho festive bee moth mado a summer tour of oup it
vacant hives, and left a bunch of web and oor your
 Susiness away as usiess, but cut out the olitlo corners
ot comb that the moths d dun't need and sane the
 timere id is ood wax in them that can bo taken out any
timere oung the winter, and wax is worth money, Aro
ond


 with all tho money you would get tor tith and mould do wwarme wero money you would get for ft, and when
swarning in ouch rapid sucosesion




## POULTRY.

## WHAT IS THE BEST HEN FOR THE MONEY

## Dditor ". TV F BEST HEN FOR

I have of late been breeding White Plymouth Rocks, and find them a very satisfactory breed for veniently, giving at least about 100 birds conspace to each fowl. I have been using trap nests during the winter months, or part of the winter things. If I find a good, trua taught me many things. If I find a good, truo-typed bird, full of her until she dies, having found that, as a rule, a bird which lays exceptionally as a matured pullet. and decreases more or less per month as a hen, while some of the poorer layers as pullets will year; very much less as yearling hens, and are lay useless the third year. I have, never been able trap nest, although the sure method except the busy, end go to roost with crops full are usually My method of rearing is very simple feed. from a few good ones. They must be full-grown
the females often the females often over standard weight, with full, vigor, mated to a male not backs, and lots of put together, and of the desired tyone, but well the eggs as laid with the number on the leg-band
of the hen, and set each hen's As they hatch out, I toe-punch eggs separately. and which was the mother. Thew which was the sire out on unlimited range in flocks of chicks are put
twenty or thirty than inenty or thirty, in colony houses, and brough and females, are gotten rid of ; the both males
and and unhealthy are gotten rid of; the undersized put in pens where they are to spend the winter, cd on wheat, ground bone, or meat scrap and a supper of green food. When they the day for tomed to the nests, the traps are dropped, and
then one finds then one finds which hens pay are their board. Somd
will lay month ander others make a spurt, and then to 25 eggs apiece; or two and start again; another for a month not lay at all. while others will only lay an anaps, apiece every two weeks. Some lay eggs two
pounds to the dozen and a half pounds to or the deabout; others one even go that. Some are whitesh, some don't with shown or flesh-colored eggs. Some and some with shells that are soft or thin and brittle, while almost continually normal size and good firm shells But what of that? We set the Y. This excellent layer has her eggs separatetime comes-a few eggs look all right. Testinghext lot a few chicks, hall of which chicks; the second hen : her: ong them. Then there is the is nothing one. Her eggs hatche eqgs laid by chickens are strong. We toe-punch nest. The hem. Which mothers them never seems to stem. The in, eggs from hen. In the fall, when chicks put ,y hen number, but only a few are left hatched out a cemed to have grown nicely to have hatched; they hicks survived grown nicely, and almost all they prience has Noll, and almost evary cogen that some hens lay
hickateh into a strong another will lay almost as well, but in
or maybe a fair percentage are ferthe. When fall
came, there would be an occasional promising
chick. The chicks from these dill

so a very markod degree, hereditary. The few
chiviving pullets of hen number one had not many
chicks to their rredit, while chicls
I have found that, as far as laying powers and
like produces like: also that laty of the same shape, or resembling those lay eg
the mother, and often much the samo man wishes to succeet impe on the mother. If proper male bird, fed on grood wholesome to a
kept dry, clean and comfortalle
laid by , laid by these hens, set under a raise from eggs
ous, high-class chickens, free from vigor
diarrher proper housing and feedinc conditions due to imin many makes of incuy artificial means, which methods. Were we farmers to use more common unatural
sense in poultry menal to the bottom of things, poultry-the neglected
poultry-could to none. Just pick out the hen thoducer second of large, normal eggs-eggs which will platch
Keep the best and kill the rest. al-purpose fowl, let it be Rock, Weep the generorp poultry-raising, and fertility are the keystone
to lack of which has sent sending, and will send, many poultry plants to poultry-breeder into hase put many a would-be tive business. It is not the breed, mut the ine dividual.
years ago. I almost ruined of me quite a few artificial methods of incubation and breeding by everything. It took 100 eggs to hatch 25 chicknot much good. Proper housing is absolutely ing-box, while some of the grood, winters in a pack-
are filled wite houses are filled with consumptives. So. I have conion, "What is the best hen for the money ? Is not this the foundation of all farm crops
which are to be raised with profit: Seed selec-
tion, strong germs, pood vitality light, air, and care, to raise the crop to ma-

## A FARMER'S POULTRY-HOUSE

Having been in the poultry business quite exHaving been in the poultry business quite ex-
tensively of late, I will try to answer your ques-
tions as far as experience permits ninety to one hundred hens in the winter, all pure $16 \times 24$ bred Plymouth Rocks. My henhouse is the ground. The walls are double-boarded, with the ground. The walls are double-boarded, with
tar paper between them, the outside lumber being matched. It is 12 feet from the sill to eaves, Which gives me a second floor, used for setting the the winter. It is ventilated with in during pipes extending about three feet above the roof, 10 in. wide each, and extending from the top of the sill to within one foot of the upper floor.
This allows the sun, when it is low in the winter. This allows the sun, when it is low in the winter,
to shine nearly to the opposite wall. The floor is of cement, kept covered with six inches of fine, Now, as regards an ideal poultry house, the site has much to do. It should be on the south side of
the farm buildings and straw stack, where it is high and dry, if you have to draw gravel to make
it so. Then, by having a small slide door on the side next to the stack large enough for the poultry to pass through, you wind the hens work-
ing around the stack most of the time, whereas if you confine them all the time, they are sure to shrink in their egg yield. very important, both as to convenience and cleanliness, I will try to describe the very satisfactory
way I have mine placed. I have a row of nests and four rows of roosts running across both the east and west ends, from the north side to within
three feet of south side, which would make them three feet of south side, which would make them
about thirteen feet long. The nests are fastened to the wall just high enough so the fowl, when standing on the floor, cannot see into the nest, thus preventing her from eating the eggs and drivlarge enough to permit one bird in each nest, with a roof steep enough to prevent the chickens from roosting on it. Four feet from each end wall I
have a square-bottomed trough, wide enough to clean with shovel. This is 30 inches from floor o top, which is 8 inches deep, and hung from
joists above. It is tight-boarded from back part
 ough anything that fails to roll down itself the horizontal wire, as she passes it, and lifts it enough, ar the door swings down and passes a wire spring aping and other

## THE FARM BULLETIN.

## FARM VALUES IN NEW YORK STATE.

 At the recent conference in Syracuse, N. Y., calledconsider the question of the decreased value and production of farm lands in proximity to the large cities,
it was brought out that in the thirty yers 1900 , the value of farmat property in the the State had decreased by $\$ 126,000,000$. In the twenty years ending
with 1900 , the number of with 1900, the number of males engaged in agricul-
tural pursuits in the State was reduced by 13,312 . while the number of males engaged in other gainful pursuits increased by 814,000 . In the same period the number of farms decreased by 14,388, while the percentage of farms occupied by their owners declined years ending with 1900 , the rural population deyears ending with 1900 , the rural population de-
creased by 115,823 , while the city population increased The reasons for the foregoing condition of affairs were ably discussed by Secretary of, Agriculture Wilson whose address we have reviewed editorially elewhere.
Another speaker, Prof. W. H. Jorden Another speaker, Prof. W. H. Jordan, of the State
Experiment Station, Geneva, showed . the the direction of improvement had set in, as a result of fairer legislation in relation to agriculture, improved rural schools and more up-to-date methods on the farm. Prof. Jordan declared, with well-directed emphasis, the race would gee the passing of the soll into the
hands of an inferior race of men.

HARD-WHEAT FLOUR
Editor "The Farmer's Advocaten
I have read with interest your editorial reforring to the superiority of soft-wheat flours for pastry purwheat flour for bread-making. Unfortunately missed the copy of "The Farmer's Advocate " containing Professor Harcourt's article on this
subject, but I subject, but I am under the impression that one were not considered at all. The writer has done a great deal of experiment work along these oughly convinced that for a nice colored thor-well-flavored pastry, combined with economp, a good hard-wheat patent is superior to any
There is a prevailing opinion that hard-wheat the leading millers have been largely responsibe owing to the fact that they have advised the public that it was necessary to use more. Such is not the case. If the same amount of short-
ering and water is used, we have owing to its hither used, we have found that
oworbing power, it requires
some some 17 to 20 per cent. less of the hard-wheat
flour. This means four. This means a saving of approximately $\$ 1$ per
barrel. The question immediately arises, if all other ingredients are equal and less flour is usod, it must result in less pastry. This is is true, so far as welght. is concerned, but the nutritive value is still greater, and
as hard-wheat-flour pastry requires to be rolled thinner as hard-wheat-flour pastry requires to be rolled thinner
than the soft-wheat, it will go just as far. We, of course, must consider the greatest good t the greatest number, which, in this case, fo the con-
suming public, the majority of whom will only kee flour in the house. As hard-wheat four inly keep one be the best for bread-making purposes, the mille this class of whent exclusively are making fancy patents,
which are ideal all Which are 1deal all-round family flours, suitable for flours for breapastry. As to the use of blended
focking, this is again a mater economy. Professor Chas. D. Woods, of matter of Agricultural Station, in speaking of feeding stuffis, made
the following statement: "T the following statement: "The cost per lb. of proteln ton price." The same thing. applies to human the Consequently, if we pay $\$ 8$ for a bablies to human feed. flour, containing 12 per cent. protein, the latter costa approximately 25 c . per 1 b . If we pay $\$ 5$ for a barrel
of soft-wheat flour, with 9 per cent proteln is 27.2 c . per 1 b ., and a 50 -per-cent. blend of the cost $\$ 5.50$ per barrel, would mean a cost of 26.1 c . per a 1 b . protein. Dr. Hutchison, an authority on dietetice
makes the following statement: "An ideal contain one part of proteid to 4.2 parts carbohydrates."

A good hard-wheat patent would contain about one part of proteid to six parts carbohydrates; a soltWheat patent of about one proteid to 8.5 carbohydrates,
and, as bread forms the staple article of diet y of the homes, it is important that the flour from which it is made has as high a proteid content as is con sistent with the proper elimination of the outaide Montreal, Que.

POOR CUPY

Prince edward island's harvest.
West at the mang influences tending to populate the West at the expense of Eastern Canada are the
dazziling facts and figures of Western crop production
played upon with ingenious purpose by writers and played upon with ingenious purpose by writers and
speakers who ring the variations on our wonderful
Western Western heritage. In saying this, no reflection is cast. dian panains region is being rejiciumphantly advertised be-
fore the world, and it is well, indeed, fore the world, and it is well, indeed, that a consider-
able quota of Easterners have settled there to found able quota of Easterners have settled there to found
Canadian institutions, and impress on the heterogeneous
swarms of settlers teristics. Nor would we see the westward characotemmed. At the same time the most casual observer too great volume late years, it has been of rathen too great volume for the gqod of the Eastern
Provinces.
It is evident that sotmé people have lately been leaving good opportunities behind, and it is well, at this stage, that the Eastern press should give little heed to advertising the resources, production and
ccipabitities of Ontario,
Quebec and the Maritime Provinices. Of these, Prince Edward Island is the smallest in area, and yet this year her million-acre rarm has produced quite a tidy crop of agricultural
wealth, to say nothing of the oyster, lobster weath, to say nothing of the oyster, lobster, cod,
mackerel, herring and other marine wealth harvested about her saline shores: The following estimate of farm produce, grown on P. E. Island in 1907, is pub-
lished over the signture Commísioner for Agriculture:
Wheit, 650.000 . Reia, Provincial Wheat, " 650,000 bushels; barley, 200,000 bushels;
oats, $9,000,000$ bushels : buckwhent 49,000 bushels: oats, $9,000,000$ bushels; buck wheat, 49,000 bushels ;
mixed grains, 500,000 bushels. hay mixed grains, 500,000 bushels ; hay, 168,000 tons; po-
tatoes, $4,000,000$ bushels ; cheese, $2,000,000 \mathrm{lbs}$. ; butter, $500,000 \mathrm{lbs}$. Unlike some other States and Provinces, where vast aggregations of capital bulk large in the total wealth,
Prince Edward Island can truthfully claim the Prince Edward Island can truthfully claim that the
proceeds
of her harvests are quite equitably disproceeds her harvests are quite equitably dis-
tributed. There are few rich people in the Island
Provine Province, but, ou the other hand, few poor ones, and
practically no paupers or indigents practically no paupers or indigents. A rugged original
Celtic and Saxon stock has been nurtured amid invigorating conditions of soil and climate, producing the thrity Prince Fdward Islanders of to-day-a people who have won acknowledgment all over the continent. marketing facilities to make their Province to and greater degree than it yet is, a flourishing community

## THE SCALE-INFESTED FRUIT

 prompt action has will be pleased to know that infestation with San Jose scale from the America pears that were shipped in to the Grimsby Canning Factory. As soon as it was known that a car of thesescale-infested Kieffers, from Delaware, was being unloaded at Grimsby, a public meeting of fruit-growers was held, and communication made with the Minister of Agriculture. The inspector was at once sent over,
and the worst carioad condemned and shipped back to and the worst carload condemned and shipped back t
the. United. States. But this car was only twenty of the same kind; so, after conference with the
officials of the Canadian Canners, Limited, who offficials of the Canadian Canners, Limited, who had
imported them, and were having them distributed imported them, and were having them distributed the pears to be bagged in the cars and taken to the
factories and thoroughly scalded, under direction of scale inspectors, so as to destroy the scales before paring. wisest course, because it caused the least canners, and yet thoroughly protected the fruit-growers.

## SASKATCHEWAN CROPS

Late official returns received by, the Saskatchewan
Department of Agriculture from a thousand corre Department of Agriculture from, a thousand corre-
spondents in all parts of the Provinef, indicate that the
total wheat yield tetal wheat yield for 1997 is nearly $30,000,000$ bushels.
Earlier and less conservative estimates had placed it at, Earlier and less conservative estimates had placed it at
$\mathbf{3 5 , 0 0 0}, 000$. According to the last estimate, the 35,000,000. According to the last estimate, the
acreage under crop is $1,965,774$ acres, and the average yield about 15 bushels per acre. In 1906, the
acreage was $1,730,586$; average yield per acre, 21 acreage was 1,730,586; average yield per acre, 21
bushels, making a total production of $37,000,000$
 age quality will be considerably below last year, and
some of the crop will be unfit for any purpose except some of the crop will be unfit for any purpose except
feeding. The opinion has been ventured that the lower meeding. The opinion has been ventured that the lower
milling will sell for as much as the highest
grades did last year und some go so far that the $30,000,000$-crop this year may realize as much as the $37,000,000$ bushels harvested in 1906 . Considering, however, that a considerable proportion of the
total crop has to be reserved by the farmer for seed total crop has to be reserved by the farmer for seed
and bread, it is building pretty high to say that the marketable surplus from a crop of $30,000,000$ bushels year's crop, which was not only much more abundant, much better off than might have been feared.
Mr. Wood, the painstaking and capable herdsman under whose care the enormous record of 20,778 lbs
milk in twelve months was made by the Holstein co at the O. A. C., has given up the charge of the dairy
herd and gone to the Central Experimental Farm, Ot

THE BRITISH CROPS OF 1907. all classes of the community, whether dwellers in in or in country, when agriculture has its gleams
prosperity. The oldest, universal of all industries, it has too often and most
during the past thirty or forty years been down on its luck. by training or experience many a farmer, ill-prepared gone under in the race of life. meet them, and he has left his native fields for the showy, but precarious, at
tractions residuum for the town, leaving behind him an inefflcient inclined to despair altogether soil; and some have been culture. We do not share that despair As farming becomes more scientific, and the earth vields larger inmore attraction already more profit, and, consequently, many years; and we can all unfeignedly reioice when so good a harvest as this year's rewards the husbandman's toil in the past and kindles his hopes for the
future."-[London (Eng.) Times.

## FARM VS. VILLAGE TAXATION

Editor "The Farmer's Advocate
school do not wish to criticise your editorials on publicpeople from the farm to fill American cities. I amm only one out of thousands who would never have owned a farm if I had not left the farm and gone to the city
However, I will give you some facto ghout school wherein you can probably halp us out I in the Princeton school section, and own a farm valued
at $\$ 3,000$. Copy of tax-card:

$$
\begin{aligned}
& \text { To county ta } \\
& \text { To township }
\end{aligned}
$$

8720
$\times 1600$

Total
Princeton bo
school; sometines as high as three called a high general stores, and one of them valued at $\$ 10$ chers; tw ing a total tax of about $\$ 17$. A carriage-maker owns a splendid home and shops, and pays about $\$ 7$, and all
other property in comparison. other property in comparison.
Why is it the business
taxed according to its value, like farm property is not $\$ 42$ an outrageous tax? Your tax system is rotten, worse than it is in Chicago. Is it any won-
der the Americans threw the English tea into the sea Oxford Co., Ont. [Note.- The above communication seemed to imply
such unwarranted discrepancy in the taxation of village versus county property that we suspected there must cordingly, wrote the township clerk of Blenheim, to reply.-Editor. 1 Indebted for the following illuminating Fditor "The Farmer's Advocate
In the first with pleasure, the following particulars: In the first instance, your correspondent., "Juno,"
is assessed for $\$ 4,000$ instead statement of his tax, as given, is correct, levied accord-
ing to the following:

County tax, $18-10^{\circ}$ mills on the dollar.. $\$ 720$
Township and general school, 4 mills


Further, he states there are two general stom
of them valued at $\$ 10,000)$. Permit me to say, with all fairness and due regard to my friend's valuation,
that there are no two business places in Princeton
worth $\$ 10$ oon the worth $\$ 10,000$. The facts are these, the best store in
Princeton, and the one he evidently refers to as pay-
ing a total tax of $\$ 17$. ing a total tax of $\$ 17$, is assessed for $\$ 2,700$.
County tax, $18-10$ mills


## Total Tax …......

Just a misrepresentation of $\$ 11.35$. The other store
the village is assessed for $\$ 2$.ine

## 



## school


village have nots, which would make their tax considerahe
more.
These are fucts which cannot be disputed, and when Howo "got his information, I am at a loss to know However,, one thing is clear. It is both fitting and asks the editor of any medium to give an explanintio on any question, the premises of which is based wholly upon supposition or the product of his over-fertile imagination. I am free to admit that under the new assessment Act there are discrepancies existing, some
of which are difficult to adjust; but, so far as is posof which are dificult to adjust, but, so far as is
sible, I believe the assessors of this township try
scientionsly scientiously to do their duty in a way that every rat
payer shall bear his proper proportion of the tax. Oxford Co., Ont. Clerk, Tp. of Blenheim.

## LUXURY DEPRIVES NECESSITY.

$\begin{array}{r}\text { Yet another } \\ \text { servant question. } \\ \text { paper has delivered itself on the } \\ \text { The Toronto Mail and Empire con- }\end{array}$ cludes a column editorial with the following paragraph, which drives one point pretty squarely home:
. Probably the very heart of the trouble is in the housewives themselves. The louder they cry to be re-
lieved of housework, the more they convince lieved of housework, the more they convince girls that
housework is contemptible. Their profuse housework is contemptible. Their profuse apologies to
visitors who may surprise them in some little domestio employment is a further advertisement of their loathing for it. In the face of these facts, of what avail are aweetly-scented, beribboned essays on the dignity of
labor, and platitudes about making things pleasant their hired help? That there are thousands of women who are so genuinely busy in the cares of rearing chil-
dren that they have no time for housework in ren that they have no time for housework in nowisa not the inclination, for baking, cooking, dusting, sweep ing, etc. The latter are just as wealthy as the
former, and can afford to nrmer, and can afford to pay for the help they don't veed, thus increasing the demand, and putting up the
price of labor. Women to whom help servants from women to whom it is a necessity with the result that dissatisfaction is general. One way to lessen the demand is for parents to train their children he expense ork, even if the time should be stolen at china-painting and burnt-leather proficiency in the art of
exises.,

## CHINESE IMMIGRATION

With or the first nine months of the year 1907, ending tributed, by way of poll tax of $\$ 500$ each, no and coss than
$\$ 391,000$ to the $\$ 391,000$ to the Dominion treasury. They are still arNared at Vancouver in fairly large numbers as com-
parecting two years, and by the end of capitation tax probable that the total of the Chinese It is understax will run close to half a million dollars. over by contract, the $\$ 500$ head tax being being brought several rich Chinamen in this country, for whom they The increased poll tax of $\$ 500$ has now been en forced for three years. During the first fiscal year it
was in force, 1904-05, only eight Chinese entere country. in 1904-05, only eight Chinese entered the
there was number was 22 . In 1903-04 there was a large influx, in order to escape the coming increase of the tax froni $\$ 100$ to $\$ 500$, the number for
that year being 4,719 . For 1900 . Chinese immigrants was 5,243 ; for 1901 ine number of 3.523; for $1900-01$ it was 2,518 ; for 1899190 ; it was
4,231 , and for 1890 it was 4,231, and for 1898-99 it was 4,385. The total immi-

LOCAL TELEPHONES IN GLENGARRY.
with lines covering a goodly Co-operative Association, ship, is now an established fact. The work was comready recently, the central office being at Lochiel. Al-
rones have been installed in some twenty homes, covering points at McCrimmon, Laggan, Fassi-
fern, Lochiel and Gilen Sandfeld ise of the telephones anywhere Subscribers have free messages and conversation must be the line, but pay
tation. Non through pay
 to subiberibers of the Borll Tive Association may conts, Iabscribers of the Bell Telephone system in Alex-
undria, and when using the long-distance, the Bell Tele
thone rates are own company. Mr. Peter Chisholm tate fixed by the president of the company. and Mr. M. J. Morris, also of Lochiel of is
the semectary-treasurer. Mr. Chisholin writes thanking
" The Farmer's. Adver

FORTHCOMING SHOWS

## County tax, 18 -10 mills ................ 8144 Township and reneral schoul 14 mils

Township and general schowl, 4 mills
School tax, sec. $21,322-10$ mills
Deb. school tax, sec. $21,14,10$ mills


## MARKETS.

## TORONTO

## resto

Receipts of live stock at the City and
Junction markets last
Junction markets last week were 258
carloads, composed of 3,944 cattle 4.941
carloads, composed of 3,944 cattle, 4,941
hogs. 5,905 sheep, and 392 calves. The
quality of the fat cattle being offered
was generally not good. Trade was
slow, with market draggy.
Prices $~$ were
lower for all common, unfnished cattle
Exporters.-Prices last week ranged from $\$ 4$ to $\$ 4.80$, the bulk selling
$\$ 4: 25$ to $\$ 4.50 ;$ bulls, $\$ 3.50$ to $\$ 4$. Butchers'.-Prime picked to $\$ 4$.
$\$ 4.50$ to 84.75: loads of good 84.25 to
$\$ 4.50$ to $\$ 4.75 ;$ loads of good, $\$ 4.25$ to
$\$ 4.50$; medium, $\$ 8.75$ to $\$ 4 ;$ common 4.50; medium, $\$ 8.75$ to $\$ 4$; common,
is to $\$ 3.50 ;$ cows, $\$ 2$ to $\$ 4$; cannerg $\$ 1$ to 81.50 .
Feeders and Stockers.-Best steors, steers, 800 to 900 lbs , 33.15; stockers, 500 to 700 the sol rrom $\$ 2$ to $\$ 2.50$ per cwt
Milkers and Springers.-Trade was
good for choice milkers and forward springers, with promising milking qualities, at $\$ 40$ to $\$ 60$, the average price for the best being about $\$ 50$; but therg that sold from $\$ 35$ down to $\$ 15$ each.
Veal Calves.-The general run of calves offered were of poor quality. Prices
ranged from $\$ 3$ to $\$ 6.50$ per cwt., the
bulk selling at $\$ 5$ to $\$ 5.50$ per cwt.
Sheep and lambs.-Deliveries were fairIy large, but generally of poor quality. at $\$ 425$ to 8440 . Export ewes sold culls, $\$ 8$ to 88.50 ; lambs, $\$ 4.25$ to at $\$ 5.60$ to $\$ 5.80$ per cwt
Hogs. - Deliveries of hogs were moderate, with far too many of the undo not want. Prices owoted baykers packers were 8625 for selects ted and watered, and unfinished at 85 to 8525 Horses.--Burns \& Sheppard, of the B pository, report few first-class horses any kind being offered, although there is a little better demand for first-class heavy draft. Farmers are trying to get class quality. About 100 horses changed hands last week at following prices: Heavy workers, $\mathbf{\$ 1 2 5}$ to $\$ 175$; medium $\$ 80$ to $\$ 100 ;$ second-class drivers and
saddlo
horeses, $\$ 60$ to $\$ 100 ;$ expressers, sadda horses, $\$ 86$ to $\$ 100$; expressers
$\$ 100$ to $\$ 100$; wagon horses, $\$ 100$ to $\$ 140$.




## 2, 55 c . bid


Bran. $\$ 25$, in bulk, at $T$ To Shorts. ${ }^{\text {828, }}$ at Toronto ${ }_{\text {83.85; }}^{\text {Flour-Ontario, Manitoba }}$ patent, ${ }^{90}$ per cent. patent, $\$ 6.20 ;$
bakers, second
bater
$\$ 5.50$ bakers', 85.50
Corn. - No.

## Corn.- Toronto.

Country produce
$\begin{array}{lllll}\text { Butter.-Supplies } & \text { light; } & \text { prices } & \text { frm } \\ \text { Creamery, } \\ \text { pound }\end{array} \begin{array}{llll}\text { rolls, } & \text { Boc. } & \text { to } & \text { 31c }\end{array}$ dairy, pound rolls, 28 rocs, to 290. . , cream
 storage, 25 c . Cheese.-Market firm. Large, 13 kc .
twins, $13 \mathrm{~m}_{\mathrm{c}} \mathrm{c}$.



Towl. 5 c. to 7 c. These quotations are fo
dresscol poulty

## Per ion less

teady. per bag, by the load. Car lots of on
 Hay, -Baled hay continues frm, and
scarce, at $\$ 17.50$ to $\$ 18.50$, for car lots. on track, at Toronto.
Straw, -Baled
straw . markot $\$ 9.50$ to $\$ 10.50$ per ton for car fots, on

| Urack, at Toronto. |
| :--- |
| Beans. - Market |
| steady |
| at |
| 1.80 |
| to |

Beans, -Market steady at 81.80 to
$\mathbf{\$ 1 . 9 0}$ for primes, and $\$ 1.90$ to $\$ 2$ for S1.90 for primes, and 81.90 to $\$ 2$ for:
hand-picked.
These
quotations

Prices heres and tallow.
Pricess are quoted as follows b
Carter \& Co., 85 East Front
ronto: Inspected hides, No. 1 cows and sters, 7ic.; inspected hides, No. 2 cows and steers, 6 b.c.i. country hides, 66
7 c.; calt skins, No. 1 , city, 120

 un washod, 12c. to 18 c.; washoc, 22 co . to ${ }_{75 \mathrm{c} \text { c. }}^{23 \mathrm{c} \text {. rejections, } 16 \mathrm{c} \text {.; lamb skins, } 65 \mathrm{c} \text {. }}$

The William Rennie Seed Co. report the seod market about steady, a follopors
No. 1 alsike, $\$ 8.60$ to 89 alsike. No. No. 1 alsike, 88.60 to $\$$; alsike, No. 2,
$\$ 7.50$ to $\$ 8$ per bushel.

Chicago.
 bulls, $\$ 22.60$ to 85 ; calves, $\$ 3$ to 87.75 .

Hoge | Hogs. -Choice heavy shtpping, 86.10 to |
| :--- |
| $\$ 6.25 \mathrm{t}$; light butoherss, $\$ 6.15$ to $\$ 6.30$ |



 Shep and Lambs--Sheep, 82 to $\$ 6,25$, | lembe |
| :--- |
| 85.50 |

## CHEESE BOARD PRICES


 ${ }_{2}+\mathrm{c}$. and colored sold on the board at
 1ilc. Picton, highest bid, 12 tc . Belle
vile.-White and colored, sales at
buffalo
Cattle- Prime 8 seers, $\$ 5.65$ to $\$ 6.25$.
Veals. $\$ 5$ to $\$ 9$
 $86.60 ;$ Yorkers, 86.30 to $\$ 6.50$ pigs,
$\$ 6.25$, ounhs, $\$ 5,50$ to 85.80 ; dairies
$\$$.


montreal.
Live Stock.-Shipments of live stock
from the port of Montreal for the week
 the and 386 sheep the previous week The local cattle market showed an
easier tone last week, and prices casined slightly. week, and prices have de
Demand was ever, and choice cattle sold at 4 ac. c .
5 c . fine, 4 c 5c., fine, 4 kc . to 4 tc .; good, 4 c . to 4 tc c .
medium
 3xc.. canners being as low as 1 the. The
demand tor export sheop was on the dull
side, owing to scarcity of ocean treithts side, owing to scarcity of ocean freithts,
but the foreign market was fairly strons
 4itc. per 1 b. The demand from butchers
was also rather light, and prices ranged Yrom $3 \ddagger$ c. to $3 \ddagger$. per ib. The supply of
lambs was moderate, and barley sufficien
lor the


 attict 价保rationt.


## W. L. FORSTER

J. W. L. FORSTER.
Noted Portrait Painter Many life-sketches tell facts which clue to the success or failure of the of such facts in connection with the natural right to call himself was his er. He was born on a farm at Nor ton, and for nearly a score bram he grew up with nature's simple truth around him. Because of this early life, and because of an inherited
love of truth he has paint true pictures.
For years the farm boy unconsciously observed the realities abou him, and when, later, his pictures
were placed before the public ther was no false note in them to defeat their purpose. He knew nature's colors, forms, lights and shades, tic errors which often mar fantas ings, were not found in his paint what he saiw. When quite a young man, Mr local people. His aptitude for thi class of work was very evident, and he entered upon a course of study in
Furope, which trained him master of the brush that be th About 1875 he visited 'Great Britain and the Continent, to see what was being done in art, and to study the
methods of teaching. The chief value of this trip was to teach him the need of what he had yet to entered Apter some four years, he real course of study fut not without having to face great difficulties, chiefly from broken health diane is much of the sturdy Canadifficulties were overcome cheerfully in order that he might become prowhen the London fog was thick, it was but typical of the clouded pros-
pects of the young artist. Not long ago, in looking over furniture designs issued by a leading Canadian house, he was surprised to find some had made in those early, which he London factory. Paris, the home of art, was reached
at last. Hard work at last. Hard work was in plenty
here, for. when study was not occuearned upon which to live. spare moments were filled in with kindly words and deeds for those who needed them, and the spmantic scenery of old Frameng Mr. Forster's first French masters were, Boulanger (a painter of strong
academic character), and Jules Le-
fehvre
but perhaps less painstaking and thorough as a teacher. The artist to whom Mr. Forster
owes most as a teacher, was Bouguerowes most as a teacher, was Bouguer-
eau, whose exquisite draughtsman-
ship, charm of color and character president, and on all occasions is
won the student's interest. Mr. strong advocate of the strong advocate of the beautification
of rural homes and highways. He
believes that this will be a splendid
$\begin{aligned} & \text { believes that this will be a splendid } \\ & \text { method to make young Canadians }\end{aligned}$
$\begin{aligned} & \text { method to make young Canadians } \\ & \text { proud of their home and country. }\end{aligned}$
The accompanying cut of Dr. Gold
is but smith, taken from a painting
is but recently completed. The grand
old historian and critic's grave and
thoughtful face rests upon his hand
pose. The three-quarter-length re
$\begin{aligned} & \text { ure, in Oxford gown, is seated in an } \\ & \text { armchair, his elbow resting unon }\end{aligned}$
School," in which he has set forth
$\begin{aligned} & \text { pupil in those student years. } \\ & \text { The results of such teaching, cou } \\ & \text { pled with }\end{aligned}$
$\begin{aligned} & \text { pled with the skillful application of } \\ & \text { the student, can easily be under- }\end{aligned}$
$\begin{aligned} & \text { stood. First the masters be under fellow } \\ & \text { students became interested, and then }\end{aligned}$
$\begin{aligned} & \text { students became interested, and then } \\ & \text { the critics and the general public. } \\ & \text { Mr. Forster's }\end{aligned}$
$\begin{aligned} & \text { the critics and the general public. } \\ & \text { Mr. Forster's portraits were frequent- }\end{aligned}$

Forster has recently published
booklet,
glance at the accompanying portrait must testify. This quality in his deserved popularity, and aster wellquence, he is numbered among Toonto's busiest artists.
The Farmer's mas Number an article on the Beautification of Rural Homes and Highways."]

## HOBBIES FOR FARM FOLK

 Hobbies are occasionally thing which are a delight to one's self, but a bore to one's friends. However, if reasonably pursued and not broughtinto evidence out of season as
well as in into
well as idence in out of season as usually more to be commended than decried. The possessor of a hobby usually gets enough pleasure out o of time or money which he may spend upon it.
The variety in farm work to som extent precludes the necessity fore hobby-which is often a vent for escape from a rut; nevertheless, th
farmer with a farmer with to cling tobly will invariably too good and too interesting to give up. I know one farmer whose hobby is to recognize birds and their songs. As a consequence, his walk to and
from the fields, especially during the early part of the summer, are a con tinual pleasure to him -a deeper pleasure, perhaps, than those who
know nothing of bird lore can grasp. The other day we heard of a grarket gardener whose "garden " covers an extent of several farms, whp adopted
as his hobby the planting of rows of flowers among the vegetables. To his surprise, he soon found that his workmen, from the mere fact of working with so much beauty all around more satisfactory in every way. The interest which began with the flowers was extended to the vegetables, and than ever before. The fame of this garden has spread far and wide, and last summer it was honored by a visit from the renowned Professor greatest horticulturist in America. Truly excellence in any line is its own best advertisement. might adopt with which every farmer y be the study of weeds.
There are thers which recommend themselves ${ }^{\circ}$ more especially to the winter season,
when the long evenings afford a little time-reading or study of any kind; making furniture according to arts and crafts methods, when wearisuch endeavor ; and for the younger members of the family, stencilling, drawing designs conventionalized from
leaves and flowers, which may be leaves and flowers, which may be
worked into rugs, etc. A dozen devices for interesting and useful work will suggest themselves.
The quest for happiness is not by n empty or frivolous tail, which can, even the smallest deinterest or wholesome tension, bring worth while, and likely pleasure, is later, in better work in the chief business of life. If a hobby can be made a means to this end, is it not
ments of the French press at that table, on which are suggested his to the young student. gratirying papers. On his knee is a volume Had it not been for the patriotic
just closed, with his finger still keep-
spirit which even then animated the
ing the page for reference. The beck subject of our sketch, Canada would ground is his library at "The temptation her young artist. The Grange", The the atmosphere of mellow very strong, because success seemed years and ripened thought. Mr.
well assured ; art received much Forster is in his happiestan well assured; art received much Forster is in his happiest mood with
greater encouragement in Europe such a subject. than was possible in Canada.
tharope $\begin{aligned} & \text { such a subject. He loves to depict } \\ & \text { character as well as mere likeness of }\end{aligned}$ For a number of years Mr. Forster form and feature; and to his ability has been an officer of the County of to do this, to bring out the inner
Peel's Old Boys' Association, as its light of soul and mind, the nerest

A CORRECTION.
$\xrightarrow[\text { writes as follows }]{\text { Mr. Hartin, }}$
writes as follows
"Permit me to call your attention to an error which appeared in your
issue of Ootober 17 th . In it you state that Nelson's flagship at Tra falgar was the Temeraire. His flag ship at Trafalgar was the Victory
For very many years afterwards she For very many years afterwards she
was used as the flagship of the Com-mander-in-Chief at Portsmouth.' We heartily thank Mr. Martin fo calling our attention to so stupid a it was the following, from Vol. IV on "Great Artists,", issued by the Educational Publishing Co.: "Everyone knows that the Temeraire was
Nelson's flagship, and this fact alone would make the picture of deep interest to Englishmen. . How trivial, even saucy, seems the snorting tug
as it pulls along to its final dissolution the hero of Trafalgar !', soon, however, as we read Mr tin's letter, we remembered that there had been a " Victory." We frankly
confess that our knowledge of the British navy is limited, but our curiosity has been aroused, and we we will be very glad if Mr. Martin, or anyone else, will tell us the part
which the Temeraire took at the battle of Trafalgar, also during what

## The Quiet Hour.

NOT EASILY PROVOKED.
A tone of pride or petulance repressedA shadow of annoyance set at naugh A murmur of disquietude suppressed
A peace in importunity possessedreconcilement generously sought-
purpose put aside-a banishe purpose
thought-
thought-
Trifles of they selfexplaining unexpressed; he who proves them such mus needs possess

They are the trifles that
the saints:
Cive me to practice them in humbl
ness, ness,
And nob
a nobler power than mine doth
man hold."
When St. Paul strings together th magnificent $\left.\begin{array}{c}\text { cluster of jewels which h } \\ \text { calls by the comprehensive name o }\end{array}\right]$ Charity or Love, he does not forget the stone which is bright and sparkling as diamond, and, like a diamond, hard wear and tear. Charity is "not easily provoked," or, in the stronger words o
the revised version, "is not provoked.
Now, I am afraid charity rare article, for most of us are very easily provoked. One whose manners are ery polite and charming to strangers,
sometimes uses his own family as sometimes uses his own family as a
safety-valve, letting loose on the unfortunate heads of
whole supply of irritability and rudeness. Samuel Johnson has put into words
what we all feel to be true: "The most authentic witnesses of any man's character are those who know him in his
own family, and see him without any own family, and see him without any
restraint or rule of conduct but such as he voluntarily prescribes to himself." What witness would our nearest relations bear to us if they told the exact
truth? Would they say that we were truth? Would they say that we were
never known to get cross or snappish, even when everything was in a muddle, when the children were tiresome or mis-
chievous, when the oven refused to chievous, when the oven refused to get
hot or the sewing-machine wouldn't work, when the bicycle was punctured or
mud was tracked over a clean floor. If one's own family is unappreciative there must be something wrong. Nearly all
these trifling annoyances I have mentioned are women's worries, but, really, it does seem as though women had more
of these little things to fret and try hom than mon. Then women, especially on a farm, often work too hard. Theip
$\qquad$ idol of work, and worship it from fiva
in the morning until eleven at night must indeed be angelic if they can always be pleasant and cheerful. They may keep up that sort of treadmill ex-
istence for a time, but it is pretty sure lo end in a nervous condition of mind and body and a pitiable irritability of temper, which might be avoited if they
would, take our Lord's advice to His would take our Lord's advice to His
disciples, and ." rest awhile." But an
uncertain uncertain temper is not always a sign of physical overstrain. To be "easily pro-
voked " is a habit we are apt to drift into unless we are on the watch against it. Good temper has been declared to certainly it is is not a virtue," and certainly $\quad$ it is not a virtue to be
despised. How many men do you supdespised. How many men do you sup-
pose have taken to loafing round the hotels and become drunkards, partly, at least, because the home atmosphere is so
stormy and unpleasant and someone is always nagging or looking cross and gloomy. Perhaps we hardly realize that gloomy. Perhaps we hardly realize that showing itself in every gesture and every
being cross and disagreeable is a sin at action. Don't let us rest satisfied with


all, much less that it may do such terri- controlling our tongues or trying to hide patient and long-suffering when wo
pall Israelities were mutinous and unruly, was forbiden to enter the Promised Land because his sorely-tried temper at last gave way and "they provoked his
spirit, so that he spake unadvisedly with spirit, so that he spake unadvisedly wit
his lips." Surely God must have con sidered his impatient anger a sin, or He Do you think, then, that He neve notices when we are provoked and speak unadvisedly? It may happen many imes in a day, when we are out of sorts or everything seems to go wrong,
but that does not make it any less sinbut that does not make it any less sin-
ful. We may not entirely agree with the
cynic who cuid. cynic who said "Relations I detest,
connections I hate, Priends I dislike, ac connections I hate, friends I dislike, ac-

help owning that the poor man may have Perhaps his relations used the privilege worst side in the privacy of home.
. We have careful thoughts for the And smiles for the sometime guest But oft for 'our own' the bitter, tone One who " shines everymbere but home " has not really good manners, for it is most certainly true that " a really good manner is like, our skin, put on
from within, and, never taken off while rom within, and never taken off while
we are alive." People who would be
 language, sometimes indulge in what has been called "wooden swearing," as chil dren often show their anger by slamming doors, kicking or stamping or bangword, the fact the Without speaking a temper is plain to the whole family
onember


SOME SIMPLE RECIPES FOR PREPARING ARTICHOKES
Artichokes (the " Jerusalem "variety)
may be dug from the ground any time
during late fall, during a thaw in wimer ter, or early in spring before growth be gins, and will be found a very pleasing
as well as nutritious addition to the bill of fare. The following recipes, con-
tributed by "E. W.," present perhaps surprising to those who are only
familiar with the ordinary method of serving them with cream sauce: chokes, and boil until tender, which takes into the colander, with their own water, the pot (which should be a granite-
ware one); add milk; when boiling thicken with flour; butter and salt to taste.
Artichoter Artichoke Scallop. -Take articholse soup
that has been left over; put a layer in the bottom of a deep dish, and fill, up
with alternate layers of cracker crumbs, butter and scup. Put a layer of crumbs,
on top, and sprinkle with bits of butter. and brown in the oven. If the soup is Fried Artichokes.-Wash, pare and slice artichokes, and fry in butter.
Boiled or Steamed Artichokes.-Wash and pare whole artichokes (or the skins ware pot, or on), and cook in granitevercook them. When done, put the peelsauce over them, not forgetting the butter and salt.
Artichoke Stow.-Boil pared artichokes in water which has milk added to it
(milk keps artichokes white); thicken,
when tender, with flour and butter, and salt and pepper to taste.
Artichokes in Salad.-Artichokes may

## BAD COOKERY AND ITS EFFECTS

 mons, at Ottawa, last March, upon the prohibit boys from smoking, Mr. Osler of Toronto, said, " Might I suggest tothe ladies who are so interested in this the ladies who are so interested in this
subject that more harm in Canada re subject that more harm in Canada re
sults from bad cooking than from cigar-
ettes. The greatest education that could ettes. The greatest education that culd
be given the wives of some section
$\qquad$
economize."
With the subject of cigarette-smoking,
we have here nothing to do, but we be With the subject of cigarette-smoking
lieve fave here nothing to do, but we be
firmly that more harm than is usually imagined is done by bad cookery.
Cond continnous diet of heavy bread and
pastry, potatatoes fried in grease, rich
gith conked to a hard mass pastry, and beef cooked to a hard mass
from which half the nutriment has gane. is enough to set up digestive disorders
in all but the strongest stomachs. Make
dyspeptic, and you have practically made an invalid; ofter cross, melancholy,
querulous, unreasonable, unfitted, to a water, and drain again. Butter a hald ing-dish (earthen or granite) ; put into
it a layer of potatoes; sprinkle lightly
with salt add bite and a little finely-chopped parsley onion, Con-
tinue the layers until filled. milke to cover, and bake filled. Pour in
Prince of Wales Cake an hour. Prince of Wales Cake.-One cup brown
sugar, half a cup butter, 4 tablespoon molasses, half cup butter, 4 tablespoons
seeded raisins, one tilk, one cup teaspoon spices, two cups flour. Bake in jelly tins. This will keep well, and
is all the better for being a weelk old at least. Good Jelly Cake.-Cream together one cup sugar and three beaten egger
Add six tablespoons rich sour cream, half a teaspoon soda, and one cup flour. Bake
in three tins Never-failing Jelly Cake.-Cream to-
gether one cup butter and two cups sugar. Beat in three well-beaten eggs, then one cup sweet milk, and, last $c^{c}$ all,
three cups flour, in which haii teaspoun soda and one teaspoon cream tartar
have been sifted. Color half the batter have been sifted. Color half the batter
with melted chocolate, and bake in two
tins. Use any kind of flling you ins. Use any kind of filling you choose,
and put icing or whipped cream on top.
Sour-cream Sour-cream Icing.-Take hals a pint
cream which has turned a little sour, add heam which has turned a ilttie sour, ada
half pint sugar, and- the same quantity
of walnuts. Boil for fifteen minutes; remove from fire, and, when
two-thirds cool, spread evenly over the Cream Sauce.-Serve with fried chick-
en, croquettes, fish, etc. Half cup milk, one tablespoon flour, one tablespoon but-
ter, salt and pepper.
Heat the butter in a. stewpan; add the flour, and cook; stirring all the time until smooth. Do
not let brown. Gradually add the milk and when of a creamy consistence, sea-
son and serve.
Double the quantities, if necessary.
Egg Sauce.-Make a cream sauce; add the finely-chopped whites of two hard
boiled eggs. then the yolks pressed through a sieve.
Caramel for Coloring Soups, Gravies
and Sauces. Stir a cup of granulated
sugar over the fire in a bakinc-pan (an sugar over the fire in a baking-pan (an
old one that discoloring will not harm)
until it is very near burning while until it is very near burning. While
smoking. put into it a cup of cold
water. When the sugar is melted, take treat extent, for the work that he or keep in a cool, dark place.
she must do. Moreover, when food is (rape Marmalade.- Fight pounds of

THE FARMER'S ADVOCATE


Children's Corner.
CAUTION TO CARELESS COUSINS A good many letters have come ad-
dressed to Victoria Ave., instead of 52 Victor Ave. This gives the postman
great deal of trouble, and makes the ters late. Don't you make such a

$$
\quad \longrightarrow
$$

[All letters for Children's Corer
(Ald letters for Children's Corner must tor Ave., Toronto. Otherwise they will
Creamed Chicken in RECIPES.
chicken into
of cubes make a small cup of sauce, as it, cook. Melt two tablespoons of suucter, as
cup rich
two tablespoons flour. the chicken into the and cook. Stir patty-shells freshly made; and hot. Fill
these serve, with the chicken mixture, and
Scalloped enough potatoes to to make three pints
Cover with boile Cover with boiling salted water, and three minutes; then point; let boin rinse about
feelings by only p letters I have received. -C. D. 1 pr your extremely interestinen I first read your extremely interesting letter, I felt a box your ears, too, if I only had and opportunity; but, on further consideration, I came to the conclusion that you
were to be pitied, for you evidently Were to be pitied, for you evidently had you have been very unfortunate in your acquaintance with Ontario farmers If you wish to meet some girls of an entirely diriserent character to those of
whom you spoke, just take a ticket for whom you spoke, just take a ticket for Hickson, and $I$ will meet you, if you give
me a fair notice, and then I me a fair notice, and then 1 will intro-
duce you to girls who can paint the piano, sing, do fancywork, and all
kinds of housework, kinds of housework, and yot can hoe,
pitch hay and grain, build loadie pitch hay and grain, build loadis, drive
the horse on the hay-forl and hay dralke harness and unherness horses, mills,' and
take loads and take loads of grain to the mill for chop
or flour, and do it cheertully, too As for the selfish and discontented girl,
Oxford County has her than for the has no more room for her than for the complaining boy.
Now, then, Mr. Cooke, I hope that you are convinced that, just because yoo
have seen one or two girls you do not approve of, all girls aren't inferior
boys. I don't know what tind boys. I don't know what kifid of girle
you have at Antrim, but I can asure you have at Antrim, but I can assure
you that Hickson girls are just' $O$. K :
Although I Although I do not approve of giris
making a practice of doing boys' worlic or of boys doing girls' worls, I think help should know how and be willing to Hoping that you will write again, and
that you will soon form a better opinion that you will soon form a better opinion
of Ontario girlhood, Hickson, Ont. HICKSON GIRL.

Dear Cousin Dorothy, - In one of the
recent numbers of "T The Farmer's recent numbers of "The Farmer's Advo-
cate," I saw a letter from Eddie Cookle, on the subject of "Can Giris be as Use-

 ask "Can boys be
as useful as girls?",
I dare say they can be, but, as a Look how clumsy
boy is when he a boy is when he
does $a$ bit of
 know that girls work that hays have to do, but
that is just where he is mistaken.
know lots of girls
that know that know how to
harness horses, fork hay, stooly grait
hoe turnips, wood, build sheavee
on the wagon, and

## FINGER FOLK

## Ten little fingers in delight

 bight Give them a bath in the soap-sud sea,Where waves are as pleasant as can be The finger people find it fun, Through the bright water swift to run Now we must trim their faces bright,
Else they will be an ugly sight. Then they may carry bread and tea
To little Miss Mouth so red and wee. We'll show them the way to yonder box ${ }_{n}$ To-night by the trundle-bed upstairs, They'll all bend down to say their
prayers. Mright little stars in East and West, hall shine white the ten little finger
-Lucia B. Cook.
the girls have something to
SAY.
do chores, besides doing housework. I have
often done it myself. I think girls kno often done it myself. I think girls know
good deal more about boys' work than boys know about girls' work. I ven-
ture ture to say that I could build a load bell, and cook a meal far better than he cound. I think some boys are so selamh
that they think if they have herd to do, the girls are having an easy time, which shows how much they know about work because they are the strongerdest they often don't think about that. As Sor boys doing housework, I don't think
much of a boy that would not help his mother when she is busy and theire are no girls to help her. I think it is just as
common to see a useless boy as st is to see a useless girl, perhaps more so. I
will close now, hoping to see this in

Greenock ONE OF THE GIRLS

Dear Cousin Dorothy, -1 have been one divocate." silent readers of "The Farmer's Corner, for quite a number of years, and
have decided to write you In a number, not long ago, a boy from Antrim wrote a pretty hard letter for,us firls He mentioned that he thought




 -號

##           bout work is mut haraer woil the but bopa aro mued stronger tan gitis  


 koors very meeh atoot girib. Why:
 Wir minat. 1




 tuakt Eadio cooke nas orey poor




 sad strong, too. oo, E.athene couk goo
 Thavo avo broturer and three siterer thy younear tien ter tor








 matoor work wiben hoey have practioced.

 ccustomed which he is not accustomed
And if you set a boy at washing dishes than a girl will in a year. But if girl is taken to the barn to work, she may not be strong enough to lift the bundles
of hay, but when it comes to milking Comen mean min tu

 two kentucky girls. Thite ifis win by numbers in thin do


 On Trant midy mon vou mowe turk to velly tomy mon. you have tuek to mo


## Cammichael.

## BY ANISON NORTH.

## Copypichted- Mill richte reserved, in oluding thet of tranmation into En languarangincoludin the Boandinaylan

## ER I

The Raising.
Not long after this the "bids," as Jamieson's bern were sent out. There had been much talk of the immense proportions which this prospective day night for weeks, the spot upon laid and the timbers were being been the rendezvous for all the young men of the neighborhood, who sat about on the logs and lumber piles, gossiped, and made eye-measurements
with much sagacity until time ". in the little church at meetin'corner (dignified by the name of The passing Centre"), had arrived. The passing of our meek little the signal for a general departure and, as a rule, the lads, each with a marigold in the button-hole, arrived was given out, sidled bashfully into the back seats, and as bashfully out again, to reappear in brave company in the semicircle which aweaited the door. The courage which the lads displaved in this proceeding was remarkable, yet the waiting semicircle had come to be something of an in-
stitution at our church. like the stitution at our church, like the col-
lection or the benediction; and. in deed, among the young people it had

mer.. It perhaps detracted
from my pleasure that, from
from my pleasure that, from
time, 1 could hear the silvers
of a meadow-lark coming up notes
thin quaver of liquid music like a neighboring meadow, as though to
remind me that, even though remind me that, even though 1 were bustle, not far off were the great and thes, peopled only with the hirds creeping things that I myself waiting in the intervals for that silvery song, and for a long much if anyone else heard it doub once, but then, perhaps, no one else Paradise. could have understood my

Then, presontiy
came, in a white frock frilled Torranc waist, with blue ribbons to the shoulders and on her flaxen curls. She was late in coming, because, as asual, the frills had to be ironed, a very long time to make the bows "set " properly. Mrs. Torrance looked very tired, but very proud, who began dancing around Gay, ever began dancing around as she fairy did not get down off my lumber pile when Gay came, but I remember laughed a great deal too much, she that she was very silly when she kept running around after Dick Carachael and Hud Jamieson, tugging to be "chased." I was a little dis gusted with Dick for chiming in with her foolishness so readily, and
thought that he was much more interesting when he was walking fences or climb-
ng trees: but I contented myself by thinking ie a rather superior litabove running around at coat-t ails. Nevertheless, I could
not help seeing that everyone noticed Gay for her, and the women all praised her beauty while scarcely a one
scemed to notice me the little gray-clad fig
ure with the straight black locks and the elfin black eyes, sitting so
Tuietily on the lumber
More than once, it is true, I overheard some ntinually coming out
come to be thought something of a belittlement to a young man if a me to addle-headed! I'm as anxious see how things were progressing, say
had not his "gamieson as anyone, but to my mother, "What and his place I' Itll do it in that in the phalanx at the gate. "Gis place he can't get anybody to go with him, was an imputation as much
dreaded among our boys as the appellation of thief or pickpocket.
However, all this is neither here However, all this is neither here
nor there, for it is of Jamieson' norn we should be speaking. Many were the tales of it brought by our
lads after these Sunday-night visits and retailed with much gusto, first to the favored lassie on the way home, then to the parents, hers and
his, later. Such foundations, such timbers, had never been seen in Oro way Township-such plates, such beams, such rafters! And many
were the speculations as to how they were the speculations as to how they
would . go upp, and whether Bill
Gilliland. the ", Gould go up," and whether Bil
Gilliand, the "framer "Whose con
tract the building was woul cract the building was, would be able accident. Should he manage to dit accident. Should he manage to do
so, it was unanimously conceded, the
event would bot event would be the crowning success
of his life. of his life. "bids", were at last isWhen the " bids" were at last issued, talk ran wild again, especially
when it was learned that the men
rom Atterill. ten miles away had
 n' ${ }^{\prime}$ quietness.'
So saying, she uncovered a basket which she had brought with her, disall the other necessities butter, and making which employed her for cakeest of the afternoon.
where all in momentous day came, we son homestead. Just to the Jamieon homestead. Just to peep into
the cellar, with its shelves laden with cakes, pies, and tartlets, and beauti-
fully trimmed fully trimmed with "valances" of to ine as good as a patterns, was
fairyland: while as a men and girls arriving at the wodressed all in their ". best,", and the stone foundations and the about the bers, while the horses tugged at beams and the horses tugged at haw'd, was cortainly better than a
fair, and almust as interesting as a circus, a litule as interesting as a
Ever a people, however, I shy among many lumber-pile by the gate and sat on a
seeing and cnioying pere, seeing and cnioying everything, the
animated scene about me, the sun-
streperd findds loven
your little girl ? "What! Is that
And how straight dark she is !
And how straight her hair ! Not a Mrs. Might, too, remarked mother within my hearing that she liked to see children dressed that she up to the neck like not fol-de-roled ranoe." But such notice Gay Torvery different from the attention Gay frilled dried to imagine myself in a imagination could blue ribbons; but fairy ringlets and dancing blue eyes and so I presently found myself wishand wondering if beauty like Gay, were always petted beautiful favored and loved more than homely ones, and always and always their way would
be the happier For the first time in my life, thene jesting. I began ton feel utterly, miserably alone. The feeling was such been thrown into a to one who has uncared for, far from home and
$\qquad$
november
ooms wher
but serve to twit himmaled gestur
ness. Perhaps the with his jealousy in tha gnawing at my litle all, is not the root of, jealousy but
the longing to be
I remember yet the great rush of
feeling that came to my timid, lonely
little heart when little heart when an arm stole gent round me, so gently that I knew, be-
fore I looked up into the sweet, pale
face, that it belonged to 1 have said little as yet of Tring, the gentle teacher who Mass
come to live with us, ing in and out among our people quiety as moves the south win gradually but surely bringing, was the roughness out frond smoothing Among us children, perhaps speech influence in this last respect was her patent, and yet it was on record
that, after Amanda Might, for three visits, even days, remembered to sound her
" ings."
It may, perhaps, be mentioned, as
characteristic of Miss Tring characteristic of Miss Tring, that at south wind, flowers seemed of the up all but spontaneously. The spring at the "Centre,", brown schoolhouse time, had been a dentre," which, before "her crated to thistles and desolation conse among which little bare feet did daily, penance, not long after her coming different quality, forth into bloom of a had passed, posies might two years there at any season of the year thed lips and narcissus in spring, June peas and nasturtiums, of all sweet petunias, in all the riotous and ing. ing.
It
more noteworthy that old Yorkie more noteworthy that old Yorkie
Dodd, who seldom paid attention to such things, should have noticed it-
how the flowers seemed to spread from the school-yard, making their of those living nearest it, gardens those farther away, with a system and regularity which constrained old Yorkie to say, giving utterance to
the one brilliant $\because$ Flowers is olike meech of his life, But neither Yorkie Dodd, nor, per haps, anyone else, fully realized how
much of this "tetchingess" how much of this "ketchingness", was deavor and suggestion, a sersonal ena few seds there, a ""wouldn't
like to send for a catalogue?" so on, until in all the district abou
Oroway Centre without its garden and its no home winter bloom. Our people appreoiated Miss Tring, and most of all, her in the little brown schoolhouse and so knew her best of all ; and none among the circle loved her more Whe she put that day on the lumber-pile and me have thrown mine about her, and her touch; but, instead, I only looked and whispered. "Oh. Miss Tring face love me, don't you ?" g. you Course I love you? Why, yes, dear, of course I love you," she said, tighten-
ing her hold on me. "Why do you But instead of answering her T just let my head drop on her shoulder and began to cry quietly, wiping the Andkerchief. And so I sat. with Miss Tring smoothing my hair, until d' ye do, Miss Tring ? Fine day for
d ye the matter with the Why, what's
Sitck, is she ," girl? "Just a little lonely, I think,",
Said Miss Tring, as I hid my face But a big hand was laid on my

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year
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ment. Allow from ment. Allow from one to two weeks
in which to fill order. Address. . ${ }^{\text {Ferder }}$ Farmer's Advochion Department," "The [Note.-Where two numbers appear, ten
cents must be sent cents must be sent for each number.j LADY WARWICK AND HER HOME. It has been said that "a man may
saw off the social branch on which he saw off the social branch on which he
is comfortably seated-a woman, never," yet this is precisely what has been done
by the Countess of Warwick recent visit to America you have, in all probability, read. Twenty years ago,
as the famous Lady Brooke the Count was one of the most beautiful and most beautifully-gowned women in court circles;
to-day, she is, to to-day, she is, to a great extent, self-
ostracized from her own class, ostracized from her own class, and has
become a dress reformer and a Socialist It would be interesting to know by what mental gradations she reached this latt
metamorphosis. There are those who look upon it as a "pose," a mere fad
teken up for want of a more novel annusement. There are those, too, who
sneer at her penchant to political and labor meetings in her
handsome handsome auto car, for espousing a
cause for which she has not yet sacri-
ficed her ficed her great wealth.
It is to be expected that so unigue lady will not escape scathing tongues, and yet. who knows the whole story? of character might become tired of idle handed luxury, nor that becoming of idlo-
nterested in charities assuredtly in charities-as Lid Lidy Warwick
ashe might pass to a full symathethy with, pass easily on lass-one might walmost pay caste
lower than her own sold her great possessions to she has not
sivide them mong the people according to the most
adical Socialism, yet Socialism consists
f more theories than this theories
 $\xrightarrow{\text { Picess }}$
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bon. Address
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ing ing, and with the Infirmary for women and to women desirour of entering the profese ion,




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F%. CANARIES Norwinh is the Canary (
CANARIES Norwich is the Canary
he Aviaries of Market of the world and itt merkend and
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hibinion, breeding or song at
lowest prices for quality. Cage lowest prices for quality, Carees
and thl bird room reauiitien.
Illutrated catologe and bree
er's handy diary, with prese


it might not have so well escaped the de-
vastation wrought by the Purtan
soldiery. Warwick is but forty-five years
Lady Warw Lady Warwick is but forty-five years
of age, and still very beautiful. With her beauty, her rank, her mental brilliance, her wealth, her possession
a home so ancient and so "splendid, a home so ancient and so "splendid
she might claim every pleasure, eve she might claim every pleasure, ever
recognition which these things can com mand. That she has relinquished so much, and laid herself open to the criticism and contumely of her natural
associates, and for so many years, is surely proof enough that she has acte only because of a principle; fads
as a rule, stand the test of time.
\[
\begin{aligned}
& \text { as a rule, stand the test of time. } \\
& \text { [By a mistake, the picture belonging } \\
& \text { [ this article anpeared last week. If }
\end{aligned}
\]
to this article appeared last week. If
\[
\begin{aligned}
& \text { you want to know what Lady Warwick' } \\
& \text { dining-room looks like, kindly refer ts }
\end{aligned}
\]
last week's issue.]

FALLING HAIR Dear Dame Durden,-You give such valuable advise to those bringing thei-
difficulties to you, that I am bringing difficulties to you, that I am bringing
mine, too.
It is this : My hair seems to fall out altogether too much, and if I comb it dry
it will not stay in place. Also there gray hairs growing in, and I do not like to see them, as I am only twenty. Will some of the Chatterers please te me of a tonic or restorer, or give a
recipe for one, and tell me how to care recipe for one, and tell me how to caio
for the hair? By giving the information, you will greatly oblige \(\begin{aligned} & \text { WREN OF THE WOODS. }\end{aligned}\) Grey County. You cannot use anything better than
ammoniated mercury ointment for your
hair, rubbing a little on the scalp at hair, rubbing a little on the scalp at
nights. It will make your hair rathe
oily, so that it may be necessary oily, so that it may be necessary to
wash it before going out anywhere, but wash it before going out anywhere, but
is sure to be effective if used steadily fo
several several months. Carboline applied
the scalp occasionally is also good to the scalp occasionally is also good to
remove dandruff and stimulate growth, remove dandruff and stimulate growth,
while many of the hair tonics containing
bay rum are also effective. I had my bay rum are also effective. I had my
hair treated by a professional hair-
dresser about
\[
\mathrm{a}
\]

Buttress, nor coign of vantage, but
this bird
Hath made his pendent bed and proHath made his pendent bed and pro-
creant cradde
Where they most breed and haunt, I have observ'd
The air is delicate.'
Although the towers still frown, one
hundred and thirty feet above the waters of the Avon, the buttresses still extend
massive as of old, the battlements still hold their place pierced with loop-
holes for the orders, there is ". delicate. peacefulness everywhere, from the trees
of the great domain that stretches about
the castle. to the corty the castle, to the court-yard that nestles
beneath its wall, filled with flowers and
shrubs, and enlivened by the plash of shrubs, and enlivened by the plash
fountains and the gleaming plumage
the peacocks which strut about everythe peacocks which strut about every-
where. Within the castle itself, there
are fearsome dungeons, from whose walls
the waters trickle, and whose only adornment is to be found in the ope only
records scratched on the stone by men once inprisoned in them. From one of
them, the one-time friend of Edward II.,
the gay and intre.

\[
\begin{aligned}
& \text { A correspondent wishes to exchan } \\
& \text { picture post cards with members of } \\
& \text { Ingle Nook, but, as we have found th }
\end{aligned}
\]

long rest are ranged the suits of armor
worn by the knights whose swords and spurs once clanked along these same
magnificent old passages; and there are, too, conservatories filled, with flowers un-
known to the old warlike days. In one compartment is placed the famous "War
wick Vase," dug from the ruins o
Hadrin's, fect, from the Bacchus heads ranged
tbout its rim, to the graceful grape ten-
driis carven about its pedostol Irils carven about its pedestal.
In another place is shown a helme once worn by Oliver Cromwell, and a
death mask modelled from his stern old
countenance, for the owner of the castle countenance, for the owner of the castle
at that time was a Parliamentarian, a
sufficient reason why the building should remain to-day, as Sir Walter Scott has
described it, the fairest monument of
ancient and chivalrous splendor which
rubbing the scalp vieat imporously with thi
fingers. She used to rub my head untí
it ting. She used to rub my head until
it and occasionally would catce
the hai near the res.
the hair near the roots and pull it by
ferks all over my head. In weshing it
it
she never rubbed sonp directly on th
hair, but invariauly dissolved it first in
tho wuter
the water. In combing, she alway
began
near the ends, and freed thy then
tangles there frst, proceeding gradually
upwards. She said that massaging th
scalp should be done every ningt, an
that the hair should be washed once
rom two to six weeks, depending on
natural
oilineses.
Io nom afraid you ca


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sure that you get the kind of Dilamond Dyes that is adapted to the article you intend to dye. If your materials are
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 GOSSIP.
polled herefords at auction Attantion is called to an important standard Pollod Heretera property of Mosamm Boyd Co., Bobecaygeon, Ont., to bo beld at Widdor, Ont.,
on Thursalay, Nov, 28th. This sale will on Thursany, Nov. 28th. This sale will
aford a tavorable opportunity tor those Who have teod enough to seeure foundation gtock tor \(a\) herd of a clase of beef cat-
tie sure to bocome popular in the near tot gure to beome popular in the near
tuture; and, as prices are iliely to to
bo yery moderate, owing to sararcity of teed
n \&ome sections, thero will probabiy bo bargains going. Catalogues may be had on application isolatensus-taker village isolated village.
offcial papers might fill in the to a woman that she the questions, instead of reading

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are answered 'in this den are answered in this department free.
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paper anly, and must be accompanied by
the full name and address of the writer. 3rd.-In veterinary quass of the writer.
toms ospecially must be fully , the gyy clomptated, otherwise satisfactory replies can-
not be piven.
tth. When a reply by mail is required 4th.- When a reply by mall is required
ot urgent veterinary
or must be enclosed. or Veterinary
WOUNDED FETLOCK Sucking colt got its fetlock torn front, right over the joint. What shal
I apply so as to leave no disiguration Ans.-The result of a wound depend most cases it is wise to stitch it. It very hard to treat a wound on a join
where every motion of the limb ope and closes
is to keep Keep the wound clean by bathing with
carm water, warm water, and apply a good anti-
septic, as a five-per-cent. solution of carbolic in water, four or five times dail prevent a visible scar, and, possibly
some enlargement, which will graduall some enlargement, which
disappear or nearly so.

\section*{Miscellaneous}

MUSHROOM CULTURE Will you give me some information,
garding growing mushrooms in a cella

\section*{Ans,-Cellars or basement-rooms, where
the winter temperature does not go be
low 55 degrees, or rise nhove 65 degrees \\ low 55
are
rooms.
rom
them \\ them under it is not advisable to mal al \\ since the odor of the manure will fill th
house. Prepare the heds \\ floor by making rough, box-like
closures of plank, about closures of plank, about 15 inches
depth, and held in place by scantling
The beds should in to The beds should be three or four feet in
width, and the floor of the cellar and th
wall at the side may be used to planks.
tiers
other, \\ \(\qquad\) cellar should have some ventilation, b} the beds. The best material for the
beds has been found to be horse manu without much coarse straw. Th
manure should be piled in some sheltere
place place in a pile from three to four fee
deep, and should be allowed not to burn, a condition which will
shown by its shown by its turning white inside.
this whiteness should show signs appearing, the pile should be turned. I
any case, after it has been well heated, it should be turned once in two or thr
days. If the heating proceeds yer rapidly, every day. If it should get to
dry, water should be keep water should be sprinkled on it to
it
moist. In fifteen or eightee but should not be put into them till the manure may now be put into the beds
the more strawy material the more strawy material at the bottom
As each layer is put in, it should thoroughly tramped down. Finally,
layer of about \(1 \frac{1}{2}\) inches of soil-roted sod is best-is placed over the top. The
spa won must not be planted at once,
the the temperature is likely to rise. It
should not be placed in the bed until temperature has fallen again to 70 or
75 degrees. Spawn comes in 75 degrees. Spawn comes in the form
of bricks, each of which is to be broke planted from eight to pieces, which at
the bed, and anches apart in the bed, and about one or two inche
below the surface, the manure in making
placed in making hard.
covered wi covered with
evaporatiom
gin to evaporation
gin to
weeks.

\section*{Double Standard}

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fillies tark
first－class breodiongs．
and
In－ ifrst－Class breading．In．
\(\substack{\text { spection invited．} \\ \text { torms } \\ \text { touit }}\) Geo．G．Stewart，Howiok，Que． Clydesdales，shorthorns and Cotwoles－For Viduala of above hredd mitite me My nell
 Subscribe for＂Farmer＇s Advocate＂

THE FARMER＇S ADVOCATE


CLYDESDALES

 Smith \＆richardson，columbus，ontario．

CRAIGALEE HACKNEYS
 H．J．Spencely，Boxgrove P． 0 ． markmam sta． Lona－distano：phone．


We have imported more Royal，H A．S．，Toronto and Chioago winnera the
 GRAHAM BROS．，CLAREMONT，ONTARIO O．P．R
Graham Renfrew＇s


 GRAHAM \＆RENFREW，BEDFORD PARK，ONT

Langest Impontation of Clyciescales，Haokneys and Percheroris of the Year．
My latest importation has just arrived home．I have now on han for asele： 20
Cydaesdale statilions from 1 tio 5 yoars of age； 25 Olydesdale fillee from ito





 Imp．Clydesdales（Stallions and Fillies），Hackneys，Welsh Ponies．



SIMCOE LODGE CLYDESDALES
 \(\xlongequal{\text { and aid }}\)

\(\square\)IMPORTED CLYDESDALEES \＆gtellions， 1 to 8 yoars of ase； 10



Imp．Clydesdale Stallions and Filles．




THE WHEEL IS THE LIFE OF A WAGON



DOMINION
WROUGHT IRON
WHEEL CO.,
Orillia, Ontario


CLYOESOALES AND FRENCH COACHERS, IIMP,等
 ROBT. NEES \& SON,

Howlok, Quebee.
25 Imported Ciydesdale Stallions and Fillies 25 Two Clsdi etalinns, 1 Hackney stallion, over 20 Clyde mares and fillies, from 1 to Scotland smong them. They have size, quality, atyle action and breeding wing in and see theson GEO. A. BRODIE, Beihesda P. C.. Stoufiville and Gormley Stations.

\section*{Shorthorns!}

BELMAR PARC.
John Douglas,
Peter White, Pombroke, Ont

Calves for sale by our grand quartette
of breeding and show bulla: Nonpareil Archer, Imp. Proud Bift, Imp. Mariapld Sailor. Nonpareil Eelipoe. Females. Imported and from importh
od stock in oalf bo these bulls.
An unsurpassed lot of yearling heifera.
THE SPICE OF LIFE. fooled the carpenter. ^ carpenter called at a flat to mak
some repairs and knocked on the door. "Who's there?" asked a voice. The carpenter," was the rep Come in," was the response. The carpen

Open the door, said the carpenter.
Haw, haw,
e inside
The carpenter was getting very mad
Then the woman who lives in the flat
he opposite side opened her door, and
. There is no one at home there except

QUESTIONS AND ANSWERS Miscellaneous.

PAYMENT OF WAGES TO MINOR ter firow who is under to pay him or his fathe with his father, the fellow himself him with me?
Ans.-Assuming that the empluyee dops not reside with his parent, you will he
legally justified in paying the wakes


Prove this Stump Puller Best-Try it FREE



THE FARMER'S ADVOCATE GOSSIP
GOSSIP. \begin{tabular}{l} 
It is reported that the British cham-
\end{tabular}
win afford relief from headaches no matter bilious. It oures by removing the cause Mr. Samuel J. Hibbardo Belleville, O writesi Last gpring 1 was very poorly, my siok headacoese, was tirod aul tho nime and no abo to work. I aam Burdock Blood Bitter
 axoellont blood medicine. You may use my
namo an I think that otheri mooid know of tho namo as I think that otherr bhould k now ot the
wonderfal meritu of Burdook Blood Bitteran)

Glen Gow Shorthome


WILLOW BANK
Shorthorns and
GBTABETGHED 52 YTARE

, in


\(\rightarrow\)
Shorthorits, Goiswalis, Berksilires


OIK. .. Bownyourmin
. O. and Etation, ommpbolitord, ouit.
Shorthorins \% Leicesters

 W. A. Dousliae

Oalodonle stazion, Tusomiora p. 0
J. WATT \& SON 1 two - Yarar-old shom bull from 1 mp
 The mbove Hronioued irnem imp. dom SALEII P.O., ELORA STA. G.T.R. AND C.P.R.
\(\rightarrow\) J. BRYDONE Broder of paro Booth shot



Maple Leef Shorthomm

 High-class Shorthorns Rosal colitef, a oon
 Whon Writins Adventlsome
Ploese Mention this Paper

\section*{LIVINGSTON'S OIL CAKE
 MEAL MEAL}


DOMINION LINSEED OIL CO., LIMITED
montroal, Que.
Baden, Ont.

\section*{Queenston Heights SHORTHORNE
 Hudson Usher, Queenston, Ont Hudson Usher, Queenston, Ont
Farm three miles north of Niagara Falle.


 MPORTED SHORTMORM
}

\section*{1854 Maple Lodge Stock \({ }^{\circ}\) Farm 1907

 \\ A. W. Smith, Maple Lodge, Ontario \\ T. DOUGLAS \& SON8 \\ (T) StRathRoy, ont \\ }

Pure Scotch Shorthorns! Our herd is headed by Imp. Prime Favorite
grand champion bull at the Cana dian
Jational Frhibltion tow York State Fair at Toronto, and at the New York State Fair, at Syracuse, for 1907 , want a ohoice young bull do not fail to ask for one of our bull catalogues. A number of females in collf, or with calf at foot, also
for sale. Correspondence solicited. Visitors all \({ }^{\text {for }} \mathbf{W}\). Gale. Correspondence solicited. \(\begin{gathered}\text { Visitors always welcome Long-distanee 'phone. } \\ \text { Freeman P. O., Ont., Burlington Jct. Sta. }\end{gathered}\)
\begin{tabular}{|c|c|}
\hline \multicolumn{2}{|l|}{MORTMORNE|Epring Valley Shomthome} \\
\hline & Bulls in service are: B \\
\hline \multicolumn{2}{|l|}{O bulls, 11 and 18 months old - Miea Rame-} \\
\hline \multirow[t]{4}{*}{} & Stook for sale at all tim \\
\hline & Bros. \\
\hline & \% John Ga \\
\hline & \multirow[t]{3}{*}{Importers and bresders of soote Shorthorn cattie, Shire and OVyd dail horbes, and} \\
\hline \multirow[t]{4}{*}{} & \\
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\hline & Is \\
\hline \multicolumn{2}{|l|}{\multirow[t]{6}{*}{\begin{tabular}{l}
Shorthorns \& Shropshires \\
One yearling Lavender bull for sale. Younger bulls growing. All shearling rams and ewes sold. Will sell a few good ram lambs. \\
JOHN DRYDEN \& SON, Brooklin, Ont. Stations: \(\begin{gathered}\text { Brooklin. A. T. R; Myrtle, C. P. R. } \\ \text { Long-distance telephone. }\end{gathered}\) Long-distance telephone.
\end{tabular}}} \\
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SHORTHORNS|Maple Grove Shorthorms
 \begin{tabular}{l}
150 lbs each. No fancy prices. \\
Kinsston, On \\
\hline
\end{tabular}
 Suat hata by tho samd


 Speclal Offoring of Scotch SHORTHORN BULLS
 and prioet arre right. Cataleogna. dohn Glanoy, \(\begin{gathered}\text { Manager. } \\ \text { H. CARGILL } \\ \text { Carsilli, Ón }\end{gathered}\) Carsill, ónt

\section*{FLETCHER'S SHORTHORNB \& YORKSHIRES Present offering: \(M y \mathbf{~ M ~} 8,000\) stock bull. Imp
Joy of Morning \(=32070=8,8\) years old, winner
 oice sows bred, and boars fit for service fro
 When Writing Mention this Paper. \\ SHORTHORNS We offer for sale choice young bulls from 6 to
monthe old, sired by imp. Lord Roseberry, ale
cowser cows and neif ors, with. calf at foot or bred
either imp. or Conadian-bred. Nolson R. Mitchell \&}

\section*{} br
\(\qquad\)
r
\[
\mathrm{T}_{\mathrm{o}}
\]

Scotch Shorthorns
 choice heifors, all from importod sirese and and number
from importad damp The imported Bruce May fower
bull, Royal Brace 55038 , heade the herd

\section*{GOSSIP} As an importer, breeder and judge Clydesdale horses, no one in the business has a more enviable reputation than John A. Boag, of Ravenshoe, Ont., ings with the pre and word in his deal ings with the public are absolutely above
reproach. For many years dale impor many years his Clyde very best that have landed among the . Before seeing the n. we were shis year's import were an extra good lot, and y well bred, and, after inspection of th animals and their pedigrees, we ha Ardnahoe 4506 (C) is a brown thre year-old, by the great Pride of Hlaco Gold Dust, is a horse of great sum on an ideal bottom, with strong back and stifle and good length of rib. This horse was imported last year, and ha tress 13392 (S.) is a roan two-year-old by the champion Everlasting, the great was by Prince of Wules, dam by Gold Mine, by Goldfinder, grandam by Prince Wales. he is a high-class show colt. He ha size, style and quality galore, and moves
with faultless action is a bay two-yction. Glensman 1350
by Princt, by Flash Sturdy, by Prince Sturdy, by Cedric, dam by
Mains of Airies, by Prince of wates grandam by Darnley. This colt will
make over-a-ton horse. with a smooth
mater beautiful mold, abundance of character
and quality, on a faultess bottom, a
zreat show colt carrying Seoter great show colt, carrying Scotland's rich
est blood. Squire 13786 is a brown
two-year-old, by Castlemilk dam by two-year-old, by Castlemilk, dam by
Royal Standard, a grandson of Prince

\[
\begin{aligned}
& \text { by } \\
& \text { port }
\end{aligned}
\]

\(\qquad\)

november
THE FARMER'S ADVOCATE.

D. M. Watt, St. Louis Station, Quebec, HIGH-CI IBE KYRBHIRES Canadian and \& Sootoh-bred. All of deep millking
qualities. AYRSHIRES \(\begin{gathered}\text { Young bulls trom producing } \\ \text { damg sand same sire, from }\end{gathered}\)
 Hill stook Parm, Olapplion. Ont. Dundas
Btation and Telegraph.
SHANHON BAMK STOER FARK

W. H. TRAN. - Oodar arove, ont A well-known clubman of New York
was in camp with a friend from Minneawoke shivering with cold. The fire was asleep. It isn't nice companion was fast warm blanket to noll frosty logs to a fire, so the wily New Yorker gave his friend a kick and then pretended to be be
asleep. asteep. There was no response, and the Westerner broke into aick. At this augh. "I
did the same thing to you to minutes ago," he explained, you twent that's
how you came to be awake." Then, of course, both turned out to build a fre of A stout man once presented himself to
Sir. Francis Burdett, and asked him for Sir. Francis Burdett, and asked him for employment. "I do not know you,"
said Sir Francis, looking at him. "Why, ave you forgotten me?" said the man; I was formerly a page in your house."
My good man," said the baronet, since then you have become


QUESTIONS AND ANSWERS. Veterinary.


Stoneycroft Ayrshires. SEVENTY-FIVE (75) MEAD
 tign-ciass lot. Anything for sale. Aloo imported Clydesdele
no Imp Yorkshires. Hamold Morgan, Ste. Anne de Bellevue, Que Bell 'Phone oonnection.

MROM Hord or fris AYRSHIRE CATTLE Al animals bred and oaretally geloeted for
 na prioes writo prices. Por HINviow A. KENNEDY \& som Whahow stook Fltion, O.P.'.B. Vornon, Omt
 SPRINGHILL AYRSHIRES. LAST IMPORTATION OF 45 MEAD
 August and september. Bargaseg in int bull ave to freothen in
 HUNTER \& soNs.
Lons-distanoo Phone, maxville s3.


 Heilfore all asoon. 4 lot of Ting.
Forthe dorline compg on for later W. C. 8TEVENS, Phillipsville P. O., Dolta 8ia. Spring Bmook Stock Famm


 QUEEN CITY HOLETEIMs, - For sale


Amnandale Great Dairy Hord omly bulle, 4 to 10 monias ola, for eala at preana Holetelme and Aymehlre GEO, RIOE, THIEembury Ont.

RECOKU OF MERIT HOLSTEINS FAIRYIEW MERD is the plaoe to bay yo
-


RIVERSIDE HOLSTEINE



\begin{tabular}{|c|}
\hline \multirow[t]{2}{*}{\begin{tabular}{l}
 \\
Arthurt Tulth. Tweed, Ont, (Gucoossor too Robs. fouth herd must be reduced. Male sand females, sall neses, for sale ebeap, quality ooneidered.
\end{tabular}} \\
\hline \\
\hline
\end{tabular}

DON JERSEY HERD


D. DUNGAN,

Dunoan Sta., on Canadian Northern Railrond.

\section*{BRAMPTON JERSEYS}


B. H. BULL \& SON, BRAMPTON, ONT.

Linden Oxfords We have at nioe bunch of rams, Wo-year-olds, yearlings and ram
lambs for asale. Bired by ohoice imp. Royal-winning ram.
R. J. HINE DUTTON, ONT P. O. and Tolespaph Omoe
-eicesters theit ind
 anter


Farnham Farm Oxford Douns
 hoedors, alo yearling owos and ewe
lambs. Price rreasonable.
Henry Arkell \& Son, Arkell, Ontario SHROPSHIRES
 D. MONKMAN, BOND HEAD, ONT
 ving sold the "Woodside Farm," we are SOUTHDOWNS.
The oldest and mo.t renowned prizewinnin lock in America, composed of breeding ewe bred to our best rams, also ram and ewe lambs, at ver.
John Jackson \& Son, Abingdon, Ont.

\section*{Shropssilires and Colsulodss Southdowns}
 JOHN MILLER, Sroutham P.O. Olaromont Stn.,C.P.R.
 The above are choice, and will be sold worth

71 Yeans without change means that Shorthorns followed very soon, that we have been importing and breeding them ever since, and that this year I have made an im-
portation of Shomthorns, Shropshires. Clydesdales and Welsh portation of shorthorns, shropshires, Ciydesdales and weish
Ponlos as good as could be bought. They, with high-olas home-brod ones, are for
gale, write me. ROB BRT MILLER, STOUFFVILLE, ONTARIO.

\section*{Musmill SHEEP}

SPLEHDID MUTTOH
8000 WOOL GREAT WEIGHT
This highly valuable Engligh Breed of Sheed te
Wonderfully Exply Maturlty.
Bardinoss of constitution, adapted to all olimatee
Whilst in the quaitity of mutton and laric proportion of lean moat it in unsur, other breed unequalled. Full information 0
UAMES E. RAWLENCE, Sallsbury, Enggland.

\section*{DEERSKINS}

They are worth money. Well worth your
skinning and ghipping to us. Write us.
E. T. CARTER © CO., toronto.

\section*{: Dorset Ram}
grade flock.
Then produce the very choieest butcher's lamb
Ihave heveral on hard
For particulars apply to: very reasonable prices
R. H. HARDING. Mapleviow Farm.

Sheep Breeders Associations.


SHROPSHIRES
 O. HINDMMREH. Miles aralr. on LEICESTERS JOHN LISHMAN, Hagarsville Ont.. P. o \& Stn - ECOTCH COLLIE PUPB of best strains of breeding Easily trained and
well marked Now resdy for bh phing. Prict DORSET U. K. HUX, Radney, Ont. Eegistered raml = HORN SHEEP Most proftable sheep to breed. Write at once to
FORSTER FARM, OAMVILLE, ONTARIO

\section*{QUESTIONS AND ANSWERS Veterinary \\ WORMS-ABORTION}

Sucking colt has worms.
Mare aborted in the seventh month of gestation last year. How can I pre-
vent \(a\) repetition of the accident this year? W. W. T. Ans. -1 . Ake three drams each of sul
miate of iron, gentian and tartar emetic. make into twelve powders. Give a powder, twice daily, in a little after the last has been given, give six ounces raw linseed oll.
2. Feed lightly, and give regular ex
ercise. Retween the end of the sixth and the commencement of the eighth month of gestation, keep as quiet as possible,
avoid all excitement, etc. Better keep
in a large box stall, where she can take in a large box stall, where she can take
exercise, or give her regular exercise in exercise, or give her regular exercise in
halter, or in harness. If symptoms of halter, or in harness. If symptoms of
abortion appear, give two ounces tinc-
ture of opium every three hours until

Miscellaneous
STRAWBERRY LITERATURE.
In reply to W. C. R., who inquired
hrough our issue of October 24th for strawberry literature, the Dominion
offices of the Potash Syndicate, offices of the Potash Syndicate, 1102-
1105 Temple Building. Bay St., Toronto,
Ont advise us that Ont., advise us that they have a "Straw-
berry Handbook," which they are pleased berry Handbook, which they are pleased
to distribute free on appication. From
a copy at hand. we have no besitation in a copy at hand. We have no besitation in
recommending straw berry-growers to ap-
ply for it. \(\begin{aligned} & \text { The bame agency have }\end{aligned}\)
lately issued an ane

\section*{AN OLD BOUNDARY FENCE.}
scales described, and also directions the preparation and-application of th
lime-sulphur wash.
H. L. HUTT HOW TO CATCH WEASELS? A correspondent desires some of ol stroy weasels that have been taking
young chickens. SELLING UNUSED RAILWAY I purchase a full-fare return ticket on
the railway, but circumstances prevent
It my roturning. Is there anything to pre-
vent my giving or selling the return porion to a friend?
Ans.-Yes; the Passenger Tickets Act Ans.- Yes, the Passenger Yickets Act,
Revised Statutes of Canada, 1900, Chap.
38, Sec. 10, which makes it an offence to do so. The penalty is from \(\$ 20\) and osts to \(\$ 50\), or imprisonment for from ton
o ninety days, or both penalty and im. prisonment, in the discretion of the justice of the peace before whom the con-
viction takes place. The unused portion ticket should, within thirty days from sented to the railway company for re-
demption, and upon such present demption, and upon such presentation
the company must repay to the holder the company must repay to the holder
of the ticket the cost of same, less the of the ticket the cost of same, less the
ordinary and regular fare for the dis.
tance for which the ticket has been used. CORN AND COB MEAL, ETC. 1. Is clear corn meal better feed than corn and cob meal ground together ?
2. Does the cob meal cause indigestion 3. Give the comparative value of the (wo meals as food for stock.
4. When is the best time to top-
dress this spring seeding of alfalfa? dress this spring seeding of alfalfa?
Could it be done with safety late in the 5. What kind of cream separator is
used at the O. A. C., Guelph?
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)
\[
\begin{aligned}
& \text { unless mixed with something more bulky. } \\
& \text { I believe, however, that if the corn meal }
\end{aligned}
\]


\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)
on, would be rather earlier in the sea-
5. Practically all the better-known
ypes of cream separators are used in
he Dairy Ilepartment of the College.
hey all seem to be doing effective works
ne machine seems to possess all the good
,ualities. One will have an advantag
her respect, and different ander in some
titerent preferences regarding them. Any

\section*{ONLY A} Common Cold
but it becomes a serious matter if neglected. PNEUMONIA, BRONCHITIS, asthma, Catarrh or con SUMPTION IS The result.
Dr. Wood's Norway Pine Syrup

THE FARMER'S ADVOCATE
questions and answers. Miscellaneous.
oothing action, and in the racking grateful sistent cougt, often present in Conckisump, percases, it gives pronpt and sure relief. In
Asthma and Bronchitis it is a succoss remedy, rendering breathing easy and natural, enabling the sufferer to easy and
freshing sey manent cure. sumption in the advanced stages, but it
taken in time that stage to the poor sufferer from this terrible
you get the genuine Dr D . Pine Syrup. Put up in a yood's Norway Mr. Wm. O. Jenkins, Spring Lake, Alta., writes:"I had a very bad cold of Dr. Wood's Norway Pine Syrup but it
only required one to cure me. I only required one to cure me. I have
never met with any other medicine as good."
Price 25 cto

Price 25 cts., at all dealera

Large Emglish Yorkshires

 NES mon than Oltare broederer in oneater



p. o. FLatr a son, millerove, one

PINE GROVE BERKSHIRES !

 ENGLISH BERKSHIRES.

\(\qquad\) breed. Pairs subplied
Barred Plymouth Rock
corkerels
Lennoxvilie, OUN RACEY NEW CASTLLE TAMWORTHS



 advocate:

YorkSHires of Choicest Typa and Brooding.






\section*{5 Yorkshimes Yortione}
 JAS. WILsoin onsome
 LargeWhite Yorkshires!


rge Englilich bried. Now offertes



 Winner of gold medal three years in
suocession. 6 young
 9 months; also 75 young towa, from
6 to 12 weeks old. David Barr, Jr., Box 3, Rentrow, Onk.
CROPPING OLD SOD PASTURE DRAFT OFE DOUANURE TREE, ETC.
field of soed (clay loam), which u Ween in pasture for over twenty year the shaty What woud bot ho bete top




Yorkshires and Tamworths --⿰亻lilatibrobed

Elmfield Yorkehires

 For Salo -ohio Improved chowtor whition the





FAIRVIEW BERKSHIRES




Willowdale







 SUNNYMOUNT BERKSHIRES:

 ,

 LAREE ENOLSH YORKSHIRES. -Wo havo all


Mount Ploanant Tamworths and Holsteins.




\section*{ADVIGE TO WEAK MEN!}

\section*{Don't Drug. Use Electricity.}


THE OLD WAY

heir.
That's all bosh, but as long as
the ihea exists, poor, deluded That's all bosh, but as long as
the ihea exists, poor, deluded
mortals will continue to dose the ihea exists, poor, deluded
mortals will continue to dose
hat creates a market for carloads
year are manufactured and sold throughout the country.
Said one of America's greatest statesmen, who was a signer of the Declaration best doctor is the one who knows most about the worthlessness of drugs.
Break away from drugs and doctors, and use Fiectricity for just ten days. Get the Dr. McLaughlin's It's a safe bet that your weakness, your pains and aches can all be traced to lack of vital you. em. Animal vitality-Electricity-Magnetism-these are all one and the same thing.
Let us give you back this power, and your troubles will all take wings and fly away.
nerves and tens of millions of little nerve cells that compose your Nower ! Your body-guard is the ten million nerves and tens of mittio storage batteries "'that runs the machinery of your body. It's the Electricity in these
nerve cells the lithe
Read some of these samples of letters we ket every day by the score from per Read some of these samples of letters we get every day by the score from people who have used this grand
reamedy: Dr. McLaughlin

Dear Sir,-I have worn your Belt now for about Dr. McLaughlin: Dear Sir,-The Belt which Searchmount Cut, Ont.
two months and am getting better all the time. Hip
is better. so is my back, also my varicocele is about is better, so is my back, also my varicocele is about
a thing of the past. Your Belt has done me more good than all the drugs that I have takene for the past highly, and will recommend it to anyone sulfering with
five years. five years. \(\quad\) JOHN AXFORD. your Belts. \(\quad\) Wishing you every success with

When You are Cured Pay Me.


PLEASE MENT ON THE FARMER'S ADVOCATE.
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