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## Ehe

# Farmer's Ydvocate 

## EDITORIAL

## The "Devil Machine.

The automobile fend is again abroad in the land. Our readers will prolably agree with us in saying that he is the most unmitigated nuisance that over struck the public highways of this country. As a general rule, he has more money than Lrains, and should either le put under restraint or inoculated with common sense, if only some modern pathologist would discover an effec nive serum of that character to inject under his cuticle. We think of offering a reward for the
discovery of such a preparation, and John 1 . discovery of such a preparation, and John D. millions to endow an institute for the treatment motorists, who would re required to produce certificate therefrom before being granted license by the Provincial Secretary to run one of their "devil machines." He is a pretty hopeless subject, but if caught in time and given heavy doses at frequent intervals for a considerable length of time, he might reach a condition in which it would be saie for him to be at large.
Farmers have been heavily taxed for the construction of the roads upon which they and their families are supposed to have the right to travel unmolested in the pursuit of their business, but the advent his His ill allong idiot has furiously along in a cloud of dust which wout ruriously aisible his tag invisimer is would seven times as large as the law proscribes. If the hapless farmer or his wife do not wish to be run over and maimed they can get out of the road or take to the nearest side line, providin: they are smart enough and the horse does not die of fright in the interval. Most horses are likely to die of old, age before getting used to the sight and sound of the automobile, which more nearly resembles a Western cyclone than anything know of. Meanwhile, about all the farmer can do is to exercise patience, and prosecute for damages whenever he has ground for so doing. In the Province of Cntario every automobile must carry its number "securely fixed" on the Tack of tre body of the vehicle, and the figures must be five inches in height, instead of three as of the vehicle, and the number of the vehicie must be displayed on the glass of the lamps. The section requiring the motorman to be carerul not ed at the last session of the Legislature so as compel the motorist to slow down within iod yards, and to pass a horse at a speed not greater than seven miles an hour. The necessity of signalling to the motorist has been removed. The Provincial Secretary is given power to suspend quired to send to every municipal clerk on 1 s May and 1st September a list of licenses granted In case of accident through runaway of a horse,
the onus of proof as to cause of damage is cast the onus of proof as to cause of damage is cast
upon the owner or driver of the motor vehicle This law comes into force on the 15 th of this month. day, and will then be thrown in the scrap-iron heap. Fortunately, in Canada, at least, ther
are ceasons of muddy roads-fall and springand a good long winter, with its deep snows, when has the right of wav: and will be found with us long after the present fad has disappeared from the King's highway, which, in their present rough condition, have one good effect, viz, dislocating
mercy, and thes. This is a small mercy, and about the only justification for main-
taining bad roads we can think of at the present tainin
time.

## The War with Weeds

The complaint of a correspondent in this issue against the Ontario Statute requiring that farmrs cut the weeds on the side of the public roads n which their lands front, in addition to the rerformance or statute labor, not always fairly apportioned or applied, calls attention once more the forgent need of combating at every point statute confess a judicious wholesome lack of respect, believing for cash judicious commutation of the time required permanent road improvement, to be meli-directed nesslike principle and one more more busisatisfactory results than the present system. But "eternal viligance is the price of liberty " from the curse of weeds, and farmers should declare a perpetual war against them. We do not think it should be considered a hardship to be required to cut down weeds by the roadside opposite one's own farm. The principles of self-preservation should lead farmers to attend to this duty apar: from the feeling of personal pride accompanying an appearance of neatness. When we consider the Fotentialities for damage and desolation wrapped up in the seed sacks of noxious weeds, we should make it a strict ruif to allow as few as possible and send theme plant may shed a thousand seeds a mission of mischief that years of labr care may not overtake, Farmers, as and the past, have not exercised sufficient care in the purchase of seed grain and grass seeds to avoid introducing noxious weeds. The danger from this source has been emphasized by the reForts of official teats of clover and grass seeds placed upon the market, in which many thousands of weed seeds have been found in a single pound of the samples offered for sale, and for which farmers have been paying high prices to seed their land. The organization of a Canadian seedgrowers' association for the production and dissemination of pure seed of improved quality, a report of the annaal mecting of which appears in this issue, should serve a good purpose in direct seed. In the meantime every available mean should be employed to destroy weeds in their in cipient stages by frequent cultivation in all hoed crops, a process which, at the same time, pays well in the increased growth and yield of the crop, as well as improving the condition of the land for the production of future crops of any kind.
The seeds of certain weeds, such as mustard and ox-eye daisy, being of an oily nature, will lie dormant in the iand for years ir plowed under, and when turned up to the influence of sun and air will germinate and reproduce in profusion. With these, where too numerous for pulling by hand, care should be taken to check them before the daisy by the use of the mower spraying, an appears in meadows or pasture land In th corn and root fields, keeping the cultivator going as regularly and as often as time and circumstances permit, is one of the most effective ways of eradicating weeds, commencing the sicge when they are young, and keeping them cut down below the surface of the ground, as it is only through their leaves they can breathe, and when deprived of this privilege they must nuccumb

Government Owmership Not Profitehle. The deficit of nearly $\$ 2,000,000$ announced by Hon. Mr. Emerson, Minister of lailways, in con ection with running the Government railway, he Intercolonial, is somewhat of a blow to the advocates of Govermment ownership of public utilities. True, the Intercolonial has not the most advantageous location for a dividend-paying road, but authorities on such matters claim the were the road nianaged by a private company the deficit would not be nearly so large. Mómbers of the Government agree that a Governmentowned road cannot be or is not operated so conomically' as' a privately-owned road, and the general tone of the discussion upon the subject in Parliament seemed to indicate that the Intercolonial would, in the near fucure, be thed over to some company to operate. It is something of a reflection upon the executive ability of our Governments of both parties that they cannot operate a road as proftably as do railway companies, but they are willing to admit that political considerations have a great deal, to do in the matter. Of course, it is but natural for the present Government to take this view of the situation, as it vindicates their policy in connecGrand Trume construction and operation of the vious Government, proportionally great deficite had to be annually proportionally great so it is probable that the question of Government-ownership, at least of railways in Canada, will soon be a dead fssue. burdens that would require to be assumed by the country in taking over railway systems would probebly stand in the way of the adoption of such a policy. What with the of the adoption of such a policy. What with the
heavy interest charges involved; and the hazards heavy interest charges involved, and the hazards
of politically-controlled railways, it is seriously open to cuestion whether the people would fare any better in the long run than they will under regulation of rates, service and facilities by the Canadian Railway Commission.
If the Intercolonial had been constructed and run on business principles, rather than as politipaying, though it might not seod a chance of paying, though it might not be quite as satis is more, had the Government extended the Intercolonial to the Upper Lakes, where it could tap direct the business of the West, by acquiring the Canada Atliantic line to Depot Harbor the Georgian Bay, it would have held the key to the transportation problem in Canada; but the Grand Trunk has scooped in the Canada Atlantic, so that chance is gone. The only other way in sight to control the situation is a $20-\mathrm{ft}$. French River ship canal from Georgian Bay to the Ottawa River and Montreal, but the big railways intimate that they won't allow that to be done ! before at in the meantime, as a ast ning it by a commission constituted something after the fashion of the Railway Commission?

Prof. F. H. King states that it will often happen in farm practice, after a field of corn or potatoes has been brought into perfect condition, o far as being free from weeds and $\operatorname{in}$ possefining good mulch are concerned, that a rain may once more, in order to restore the earth mulch and to retain the matter which has been broutht up within the reach of root action

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## JOHN WELD, Manao

4. THE FARMER'S AD (sa issues per year).
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 - ALE COMMUNIC

ALL COMMUNICATIONS in reference to any manterer connected
inth this paper stould be baddresed as below, and not to nay
ddrose-THE FARMER'S ADVOCATE,
the william weld company (Lnateon)

## HORSES

## The Farmer Boy and the Horse

 An old fricnd of mine who hus spent all his ife on the farm without becoming even a fair judge of a horse, said to me a few days ago,while in a confidential mood: "If I had life to live over again, I would endeavor while a boy to study horse-judging, so that I could pick out the good ones," said he. "I know 1 have lust a lo of money and failed to make a great deal because might have been." I fancy, if the majority of old farmers were to speak their mind on this question, they would say the same thing.
To the young man of the present day the eif perience of those who have preceded thein ought to be of great interest on this question. It is
much easier for a young man to obtain an inti-
mate knowledre much easier for a young man to obtain an inti-
mate knowledge of horse-judging to-day than it
was twenty years ago, and hence it is that the was twenty years ago, and hence it is that the
farmer of the future will require to know more farmer of the future will require to know mor
of horses than his father. Whether it is the intention to breed horses or not, the necessity for
being able to judge them is important, because every farm must needs have them, and every
farmer must own a number. It is safo to say that there is not a young
farmer in Manitoba who has any aptitude for judging who may not become a good judge of requires that an interest must first be taken in
the subject, and secondly, that that interest be maintained. No one should expect to becom
proficient in judging any class of stock in a shor proficient in judging any class of stock in a short
time, that would be impossible. It takes time
to become a horse-iudge. but the greater the to become a horse-iudge, but the greater the
interest in the subject, the sooner may a fair
knowledge be obtained. nowledge be obtained.
But when a fair knowledge of the subiect has been obtained, the dancer point has been reached
with some men. It is then, unfortunately, that far
too many get the iden that they " too many get the idea that they " know a horse."
and aiter they lave become reconnized in thin
loculitios as judges, they soon feel that there is
litul Not long ago I ran across a finc-looking horse
that hal then bought in Winnipeg last spring for
a long
district as a horseman, but, upon examination, The horse was found to have very bad sidebones presence until his attention was drawn to them and no one could fail to realize that far too much money had been paid for the animal.
merely one example of a supposedly good horse man being badly fooled, when there was no do casion for it, had, he been more careful in his examination; I would, therefore, like my friend, the farm boy, to realize that there is a $10 t$ to be
learned about the horse, but there is no more interesting nor, in fact, valuable subject than horsejudging, and there is not a Western boy who cannot improve his knowledge of our noble frie if he will.
Manitoba.

OLD VET

## Automobiles Slower Than Horses.

'Virtue is said to be its own reward, and per ontra, it may be said that sinning brings ts punishment in due time. On this latter score contemptuous of the law were many users of the mackine that offlcers and constables everywhere were licensed to make arrests, whether there was cause for them or not. Any number of innocen victims to this spirt Aly the time had arrived when

Drest in a little man, prief authority,
Most ignorant of what he's most assur'd-
His glassy essence-like an angry ape,
Plays such fantastic tricks before high Heaven,
As make the angels weep
Like the famous school teacher who always oxed a boy's ears when he met one, "because it the average constable and policeman, too, has come to look upon the automobile occupant with the most insolent suspicion. On the way to and the motor cars crept along, particularly York, and down the magniflcent driveway to the
ocean. Speeding horses, training for the lightharness race-tracks and speedways, swept by the
machines as though the latter were standing still. There was thines ar hesitation on the tiar the horse-drivers, but the chauffeurs had lost heir nerve, and couldn't be coerced nor cajoled nto going faster. It was a slow, and, at the
pace, in a cramped space, tedious means of pace, in a crampod space, on ted coach, when the pace may be as slow as you like, the sensation is always agreeable, because of more room, the
elevation and the opportunity for enjoying the scenatry, watching the horses at work, the skill of the whip in making every horse go up in his collar, and the always-contagious good fellowship cuaching song ran:

$$
\begin{aligned}
& \text { " The team trots merrily oor the road, } \\
& \text { The rattling bars have charms ; } \\
& \text { Eleven and four is our average yoad, } \\
& \text { And we change at the Coachman's Arms. }
\end{aligned}
$$

We learn with pleasure that the various. in automobile law which shall be fair to automobiles and the public, have thally agreed upon a meascpeced limit of the bill fixes the rate at twelve miles an hour in cilies and boroughs and twenty miles an hour in the country, with heavy fines public health and safety favored the suspension limits, but finally decided to omit this penalty aiter a conference with the attorney-gencral, who Miestioncd its legality. Motor bicycles come bers the same as an automobile. The wisdom of the horseman and the autoist will eventually prevail, to the end that we may have everywhere

Mr. D, Messenger, Guelph, Ont., writes the with article on page 916 , in your much cleased
22nd, entitled Draft Morse Breeding me back to my boyhood days, and brings to my mind afresh the land of my birth, an also the
home of the hist live stock of all breeds in the

## Tell Your Wants

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## STOCK.

## Holstein-Friesian Records.

## -coma:ttee ap

xecutivo, Canadian Heletein
Fontlemen,-Your sub-committee, as instruited, pro ceeded to Ottawa, and were favored by the Minister of are, giving us a lengthy interview, in whic in detail: in detail
Assoctation many years ago, the Holstein-Friesia Assed Hodeo wore favored with an invitation from Mr of the Province of Ontario, to locate our offices a the Parliament Buildings, Toronto. We then took the ground that as our association was reglatering stock from all parts of the Dominion, we did not wish become involved with the provincial authoritios

And, also, that the system of affliation then pro posed would destroy the usefulness of our organization lor business purposes. We explatiod that we were then very tempting, but to-day we are very pleased not yield, for, in comparison with the progress by other essociations. we are well pleased with the course we then adopted, and, consequently, regard the present invitation for affliating with the other breeders naturally cautious in our movements regarching same 2nd.-We also showed the Minister that through th discussion which then took place, the Holatein people determined. if possitie, ${ }^{\text {to }}$ secure the creation of quently, to-day, by the impulse of the Canadian Hol stein-Friesian Association of Canada, who were succens tul in so doing, the nationalizing of all breeds wa made possible.
We
also
when we were incorporated fact that we considere became the only "National Holstein Record Associacion, as the Act does not permit more than one asso to show in our beal endence of Dominio poration, there could not be any possibility of dece tion being practioed upon the railroad authorities.
We also endeavored to satisfy the Minister Though the alsfliation of all small and weak associla tions seemed necessary, at the same time experienc has shown us that under that condition these small associations did not grow to any extent, for where the
business of two or three breeders' associations was conducted by one offlicial it was like an individual serv ing two or three masters at the same time, and that if our association found it hocessary to remove their accept of the generous offer made by the Minister's De partment to supply us with stationery, office accounmo dation and free postage, this would not be a sufficient inducement, unless we were thoroughly satisfied that
our business interests would not suffer, and, to mion our business interests would not suffer, and, to guard
against this, we found it mecessary to demand an in dividual office for the conducting of our affairs. And, as to the part of the agreement referring did not consider the Live-stock Commissioner's were at all discreet, and, by his actions, he has already forfeited our respect, and, consequently, our Executive were very emphatic on the question of the present Live
stock Commissioner being barred against having thing to do with the inspection and management their work. The Minister, on the other hand, pointed out the diffculty of his complying with our request, a
the Live-stock Commissioner was his officer in his department that such work would be performed. On the other hand, regarding the individual offlice de manded by us if we locate in the Departmental Buil ing, the Minister promised very kindly to look further Your committee, later on in the day, visited the
office accommodation set apart for the purposi of keep ing the affliated National Recorrs, interviewed the dif-
ferent clerks, examined the system which hedd been inaugurated, and are sorry system which had been in mot at all satisfied with the accommodation aiready
alforded, and conidd allforded, and consider the affliation plan a serious
blunder, the blunder, the room so far set apart for their accommo on the work of the Shorthorn Association, let alone the affliated associations. But, as it was stated, the had not yet completed their arrangements, the futur also enquired from the proper officials. Your committen
possibiling the of freight rates, amd, as far as they can tearn, there
is very litule likelihood of this being tole 1) veminion little likelihood of this being inflicted upon a With this inatter we are stlll occupied, and expe:t to Inake a report later on.
Your committee also enquired into the cost of our work being conducted as it should be conducted in o creased difference of about $\$ 350$. Oo.
All of which we respectully subbit.

Signed on bethalf of the sub-committee,

Sheep at the Royal Counties Show. To breeders who have visited England during show that has a greater attraction to them than that of the Royal Counties Agricultural Society,
held this year at Bournemouth, June 8th to

The Hanpshire Downs, a breed that is rapidly forcing its way to the front in countries beyond the sea, and went does it deserve its reputation, ram class Mr. James Flower secured a yotable success, with sheep of superior type, winning
first and third.
Following close after the leader came one of very good type and first-class scale Mr. T. F. Buxton had the reserve number in a first-class sheep. The two-year-old ram section was one of very fine merit, and here Mr. Carey
Coles won with a typical ram, the second prize going to Mr. Buxton, whose sheep had fine mas-
culine appearance and character, Mr. H. C. culine appearance and character,
Stephens taking the reserve number.
Stephens taking the reserve number.
In the yearling ewe class Mr. J. Flower scored another great success, winning first and second with two of the best pens of ewes it, has been our pleasure to see for many years. The leading pen
was afterwards made champion pen of the female ection of the breed. Two pens with great scale section of the breed. Two pens with great scale
and excellent flesh, from Mr. Buxton's flock, followed, and then a very fine pen from Mr. H. L.
Cripp's. 'The contest in the class for single ram Cripp's. The contest in the class for single ram best specimens of the breed, so far as early maturity, dvelopment, size and substance are concerned, from Mr. H. C. Stephens' flock, was
selected for leading honors. Two lambs owned by Sir W. G. Pearce were then placed second and third, and the reserve number went to one from Mr. Buxton's flock, whose fine tlesh and capital pread indicates the making of a fine stud sheep particularly strong in merit and type. The winhers here were from Sir W. G. Pearce's flock, who certainly secured a notable success in bringing out were subsequently made the champion pen of the show, winning over leading animals in other lasses. Mr. J. Flower, with a pen of quality,
ype and character, took second honors, and the hird prize went to a well-matched pen from Mr. Stephens' fock, Mr. Buxton again having to be ontent with the reserve number. The ewe lamb class had for its winners three
ypical sisters of the leading ram lamb in the ypical sisters of the leading ram lamb in th
single ram lamb class, owned by Mr. Stephens. The Southdowns were well represented. Champion honors as well as the gold medal for the of Richmond's yearling ram, whose fine type and excellent fleece and flesh fully entitled him to the same. Mr. C. R. W. Adeane took second honor
with a sheep fully equal to the high reputation his flock has secured. Mr. E. Henty, a breeder who is coming well to the front, secured third hors for a wide deep, and good-fleshed ram, and Mr. J. Colman took the reserve number. The two-shear ram class with a very wide and good-
fleshed ram, who was reserve number for chameshed ram, who was reserve number for cham-
pion honors. Two other sheep of very superior pion honors. Two other sheep of very superior
merit, particularly in respect to the quality of
their flesh, won second honors and reserve number their, flesh, won second honors and reserve number
for Mr. Ellis. Frobably one of the best ram ambs that has been seen out for some consider lambs, and was owned by Mr. Adeane, who won first honors in the class. Mr. Ellis followed then came Col. Walters' entry and that from the
Pagham Harbor Company, which was at lamb of superior merit. In the yearling ewe class Mr.J. Colman went to the top with a wide pen, good in their .fleece and straight on their legs. These victory, however, was only won with a narrow margin, for Mr. Ellis with a very fine pen of yearling ewes that had not been shown before, number for championship. The Earl of Cadogan won the reserve number in this class with a neat and evenly-matched pen. Mr. E. Ellis was first for pen of ram lambs, and also took similar
honors in the ewe lamb class with a pen of not-
ably fine Mr. Adeane was second for ram
lambs, and the Pagham Harbor Co. third Shropshires.-In consequence of the Shrewsbury
Show being at the same time, there was only one Show being at the same time, there was only on es, and he secured first honors in each class with Very typical shece.
Oxford Downs.-Mr. A. Brassey, M. P., con-
tinued his successful career again at this show tinued his successful career again at this show
his unbeaten yearling rams and yearling ewes be ing at the top of their respective classes. Mr J. T. Hobbs was third with a fine, deep-fleshed ling, ewes, the reserve number going to Mr. M
Horlick. The latter exhibitor won first with a
very fin the very fine pen of ram lambs.
Dorset Horns.-It may ha rec.nt years, a fact that this breed had mate a
if this is so, they have never been better in merit yearling ram that won in its class. Mr. Wh. The Flower taking second honors, and F. J. Merson reserve number. All the 8 pens of yearling ewes wore each, and commended the class as a whole. Mr. W. R. Flower won here with a notably fine pen, tion. His second entry was hoserve of the secMr. E. A. Hambro took second honors with and pen of wide and deep ewes. In the ram lamb
class Mr. Flower was first and second, their merit class Mr. Flower was first and second, their merit being most superior. The class for ewe lambs mended, a worthily even and uniform class, at the head of which stood the very fine pen owned by Mr. Flower. Mr. T. F. Todd was second, and entry.

## Shropshires at Shrewsbury

 represented as at the Shrepshire and Midland, held as 8th. would appoar that, as a rule, outstanding shieep as usual, but the average merit was very good. To Mr. M. Williams belongs the honor this year of winning1he Mansell Memorial Challemge Cup, the blue ribbon of the Shropshire show-yard season. He won this prize with the grand yearling ram, of immense scale and
splendid character and substance, the splendid character and substance, that headed the year-
ling ram class of twenty-two ntries. Mr. R. P. con ram class of twenty-two entries. Mr. M. P. P.
Coper, with one of superior merit, was second.


Loretta D 141708.

## Moina

fillowod Silir P. A. Muntz, P. L. Mills, and R. Tanter The old ram class had at its head a notable sheep whose show-yard record proves his constitutional vigor and inherent merit, the two-shear owned by Mr. Cooper. Ho made a keen fight for the Mansell cup, but was r. n. He had won first as a lamb, and frst as a yearling at
the Royal Show, and now as a two-shear talkes first in
this important show. A notable class was that for perll of three yearling
rams, In which Mr. Cooper secured a grand victory, winning first with three, whit was also second with three nearly equally good. Sir P. A. Muntz, and
Messrs. E. Nock and J. Harding occupied the succoedMessrs. E. Nock and J. Harding
In the ewe class, with a pen of five, well-deserved first honors went to Mr. R. P. Cooper, for a grand
pen. Sir P. A. Muntz, Mr. P. L. Mills. Sir w. CorSir P. A. Muntz, Mr. P. L. Mills, Sir
vett and Mr. T. Fenn were the other winners.
Mr. Nock amd Mr. Harding came out top in the two
lasees for ram lambs and ewe lambs, the merit and classes for ram lambs and ewe lambs, the merit and
character of which was highly creditable, and Mr. Nock had the satisfection of winning the champion prize for e best peri of lambe in the stiow.

## Both Up-to-date.

RICHARD GOURLAy.

## Successful Hog Raising

lowa State Agricultural College, he said, in part corn The hog is pre-eminently the most profitable No other, domestic animal is capable of farm ing so large a part of the feed it consumes into a percentage of dressed meat to live weight. The hog will make
live weight, from a bushel of corn: the sheep from 5 to 8 , and the steer from 4 to 5 . The
sheep will kill from 50 to 60 per cont sheep will kill from 50 to 60 per cent. of net moat; the steer from 55 to 65 per cent.,( and the
hog from 75 to 85 per cent. As an economical meat producer the hog has no rival. Viewed as finished products the hog stands predufs into finished products the hog stands preeminent.
Etiminate the hog's part in the economy of farm feeding operations, and you will remove the facor of profit in many cases.
"During the growing period, grazing is especially important and conducive to health and ng should provide for an ample supply of succuthroughout the spring and suane crops for hogs hroughout the spring and summer and autumn
months. Combined with this, the system of management should enforce exercise. The entire arm, or as much of it as possible. should be "Thred for hogs. clover, seed pounds of rape and five pounds of crops will afford an abundance of good feod on the stubble fields after harvest, at a merely nom-
inal cost. The utilization of this fer
 le moved out ings to
the ideal surrounding alforded by a clean ulfalla lot. They make t possible to distribute
he hogs in clean, fresh he hogs in clean, fresh
quarters, thereby utilizing grass and forage crops to the largest degree, as at a minimum. The favor tconomical production. 'They promote the fecundity and more profitable breeding qualities farm son, and raised 280 to weaning time. Stations show that an acre of the rape has a feedStations show that an acre of rape has a foed
ing value equivalent to the froduction of 500 ing value equivalent to the Iroduction of 500
pounds of pork. An acre of alfalfa is even more valuable than an acre of rape for grazing hogs,
though it cannot be grown as a catch crop for though it cannot be grown as a catch crop for adjoining the the hoge farm we sowed some ground
and alfolf lonst August adjoining the hog yards to alfalfa last August,
and I think we have had the best returns from it of any crop we have ever grown for hogs. We expect to largely increase the acreage of alfalia In a blue-grass pasture we have pastured 86 Thesective show barrows since the first of May the date named, yet they are in excellent condition and growing, though making but little, if any, increase in weight.
The principle which
The principle which I wish to emphasize in
feeding hogs is that, in order to insure the best of health, vigor. Pccundity and profit in hog-rat?
ing, the herd chould be handled as larigely ing, the herd should be handled as largely possithle in the open field and pasture, and that
during a period of six or seven monthe of the
year, alfelfa, clover, rape and other forage crops have stalls arranged same as in the preceding
should constitue an important adjunct to the plan, but instead of having the feed passagelevel should constitue an important adjunct to the
grain ration, and at times the green fields miay furnish even the major part of the ration, with marked advantage and profit.

## Care of Brood sows.

Writing in the Iowa Register, Professor Ken-
nedy stales from his observations during his re cent trip abroad
" In the estimation of the English breeder, the brood sow, during the gestation period, requires sults, and to withhold these on account ost sults, and to withhold these on account of a
slight difierence in price, is short-sighted economy,
if not very disastrous. On those farms where skim slight difierence in price, is short-sighted economy,
if not very disastrous. On those farms where skinn milk was available the brood sows were fed bran, oats and skim milk, or bran, shorts and
skim milk or bran, barley meal and skim milk. In addition, the sows were grazed on grass. soiling crops during the summer months, and were fed on raw mangels, turnips, beets or steam-
ed potatoes during the winter season. Where skim milk was not available, the rations were composed of cooked bran, shorts and middlings,
or soaked bran, shorts and barley meal, witke the or soaked bran, shorts and barley meal, witk th tioned. This method of feeding was continued up to within a week or so of farrowing tinie. At
this time the amount of roots fed was decreased This was done for the purpose of keeping th
digestive organs in a loose condition. On man good farms from four to eight ounces of Epsom salts, in accordance with the size of the sow, was
fed in the food to each sow about two days befed in the food to each sow about two days be-
fore farrowing. This was given for the purcose of cooling the system and preventing an early flow of milk, which so often is the cause of an inflamed udder, und, as a consequence, a vicious
mother at farrowing time. That careful attention to all of the little details pays, was amply demonstrated on a large pig-feeding farm in Cheshire, where 130 sows reared on an average
nine living pigs per sow. On some farms even higher averages were obtained, but the number of brood sows was much less,
" During the nursing period, which varies in length from five to seven weeks, the sows are very
liberally fed. The feeding stuffs used are of the kind that are conducive to a liberal supply o milk. For this purpose, rations of equal part
bran, shorts and barley meal, scalded and fed in conjunction with skim milk, or two parts bran two parts middlings, one part barley meal and one part corn meal, soaked or steamed and fed
in conjunction with skim milk, or equal parts of in conjunction with skim milk, or equal parts o
bran, shorts and cooked potatoes, fed with of without skim milk, were in general use, and gave highly satisfactory results. Ground oats, in con-
junction with the other feeding stuffs, were also junction with the other feeding stuffs, were also
used by some, but the price of oats usually pro hibits the same. The brood sows were always fed three times per day, and in some instances
four times per day. Whenever skim milk or but our times per day. Whenever skim milk or but
termilk could be had they were used in the feed ing of the sows during the nursing period. The young pigs are encouraged to eat at an early
age, as at the end of three weeks some milk and age, as at the end of three weeks some milk and
finely ground oatmeal or shorts are supplied in finey ground oatmeal or shorts are supplied in
low troughs where the little ones may partake of the same. In this manner they are taught to at early, and thus can be weaned at an earlier
age, a point which is of much importance to th age, a point which is of much impo
man who rears two litters per ycar.

## Ventilation of Stables.

As this is the season of the year that new
barns and stables are being built, or old ones
torn down and remodelled torn down and remodelled, a few uords on ventiarmers
As cattle and horses at the present time aish and as they are generally housed during wook in the same sort of stables, they at least whould be given as sanitary and healihfin stahling as
possible, and this cannot be provided without good ventilation.
I do not profess to be an expert on this par-
ticular question, but from what I have read and observed, I will here enumerate a few of what I tems of ventilation.
The system which
The system which T consilur ithe hest, al-
though somewhat expensive, and more aldated
to large stables than some others, is to have the tables so arranged that two rows each other, fresh air being brought outside by means of a garvanized
hated some fifty or one hundred arted some fifty or one hundred
table, and about twenty or twentwith a movable cowl or hood an tup,
his fipe, and two or three feet undin. have thle to run up between with ever
tall., connections being made whis supplies
y means of smaller tile. This rech air, of which, coming in at heads
whis and rives the foul air out through pipes at cril
plan, but instead of having. the feed passage level
with the rest of stable, have it raised a foot or more, and underneath it run large tile or pipe from outside the full length of passage, with
smaller tile running to each stall, coming out at smaller tile running to each stall, coming out at
head of cattle, the outlet pipes being at the ceilhead of cattue, the outlet pipes being at the ceil-
ing, and running to the vetilators at roof of

Then there is the U-shaped pipe system, which is recommended by those who have uried it. This on outside of stone wall, and, passing underneath the wall, coune out above floor on the inside, thus with connection with ventilator at roof. ceiling The cheapest, and last ulicich I shall mention, five or six feet apart, all around the top of the or close wall, arranged so that one can shut of is required. according as much or little ventilation system, is,open to the objection that it is some that difficult to kecp the stables at an even
temperature, although followed successfully by some prominent stockimen

## FARM.

## A Perfect Soil.

Some years ago an extremely important ex since dead, who had been endeavoring to ascertain as conclusively as possible what actually congrown with great diligence under various conditions, and the result was the conclusion that the
best soil for agricultural crops, and they produced during the experiments, was one consisting of equal parts of sandy, was one conclavey and peaty maiter, not by weight but by
volume. It will be observed that the sand volume. It will be observed that the sand supand mechanically adapted for its purpose; the peat provisied the organic matter and the resulting huinus, in addition to which it assists im-
mensely in the retention of moisture at a time when moisture is most needed, and in the warming of the soil as it gradually undergoes decomposition ; the clay furnishes the retentive and substantial matter which gives a soll compactsolidate and to provide a firm seed-bed, apart from which it also furnishes essential constituents would provide the lime, which has so many funtions, more, perhafs, than any other constituent of the soil, and which would adapt it to the monly of crops other than those which are comTransactions.

## Nature Study and Birds'-mesting

in the cornfield, I I was sudtenty aroused a row wild commotion and shrieking of something on he ground just ahead of my horse. Stopping specimen of that handsome bird, the killdeer plower, floundering in a very paroxysm of demonstration. I immediately suspected the presence of a
nest to be the occaation of her distress, as I knew of the habit which various birds have of trying to lead the intruder away from its locality, by feigning injury, and I therefore stopped to look about ine.
lest I should inadvertently tread upon it minute's careful scrutiny before I detected is within two feet of where I stood-a mere, depres-
sicn in the earth, lined with pieces of straw. It ontained four eggs. There they lay, a dirts olor scheme effectually harnonizing with the round to form a protective coloration. Quite
vidently it was never meant that they should discovered and admired by human eyes should be Knowing, even if the poor hird did not, that heen. and that in a few minutes her anxiety could rimd to her accustomed domestic bliss. I deterWatchine her actions for a little. As 1 stronie
up to the spot where her nest was seereted. she and heen , harcing about mes. with wings a-flutter
and shrilly cryinu. Presently the ran from mer fow vards, and. throwing herself on her side. with wings stretched limp, hecan to strurcle in a ime uttering the most pitenus sermams. In a twinkne she was un. only to repeat her tactics again and.
gain. As she finally saw me stoop to examine ,ucc kre ran somewhat farther away befor, Wi.t mir awav her hopolescnecs appeared to give 11. ........ tor run hack and forth, with her was overv motion.
of mother-love and colici-
Thouch I prohath! nuvor

perpetration of a deed so foul. I knew of one for so time a prize to' add to their " speciment I wonder if such a one could as cheerfully obtain the coveted treasure from the presence of that To me the monstrous nature of the act asands itself in all its repugnance.
I know that a great many people have collected birds' eggs, and they truly make an eresting collection; but I have long felt that
teachers and students of nature, particularly. should be laught to see a difference between col-
lecting birds' eggs and such objects as incel lecting birds' esgs and such objects as insects, exceptions, live independently of either their mates or their offspring ; therefore, their death, if humanely brought about, need cause no appreciable
pain. There may be a few who could feel sight sentimental pang at the violent could feel a of the life of an insect or plant, but it will bo generally granted that there is no sound objec-
tion here, and the same may be said of a wide ion here, and the same may be said of a wide
range of natural objects. On the other hand, a collection of birds' eggs represents the aggregate of the grief of a great number of parent birds, in their kelpless surrender of what are their own
exclusive belongings, in which are centered all exclusive belongugs, in which are cellered all
their hopes. There mav be few so capable of
showing their anxiety, but there is no less surely planted in them all the same parental affection In the case of a very few birds, like the cow bird or the English sparrow, the destruction of both birds and cggs may be justifiable, and in acrificed; but against a certain number nust be Liveness of the great army of mere collectors I eggs as are needed be found in public institutions where they can be available for whosoever is suffiand let teachers and base counterfeit of nature study, formerly branded Collecting ing.
nature study, but Collificining is NoT NA intrusion into the affairs of this biy my chance more of nature, though I did not touch an egg, than anyone possibly could by boldly disregarding her actions
booty. Is nature study to be regarded as a sort of
juvenile " specimens." as the manifest fruit of its effect and on the child? Is not rather its best educative infuence this selfsame interest and sympathy begotten towards all things, which would repel the
thought of doing anything without cause to mar the perfect order of nature? Oh, for teachers who
can grasp the vital signiticance of this distinc-
tion !

Top-dressing Winter Wheat.
Having seen an article in the "Farmer's Ad-
vocate" some time ago, asking readers to give ocate " some time ago, asking readers to give
their experience with top-dressing wheat in winter and as I now see the results, will give my experi-
ence for the bencfit of my brother farmers. The field in question contains twelve acres; fone hall was top-dressed in the fall and the manure worked the wheat, with good results. The other half
was top-diecsed was top-dressed with manure direct from the fully spread, and with during the winter, car thing. except where the sesults-scarcely anywhere did not put any manure; there is goo field on which manure was spread upon heavy as there is really nothing on them, which show have learned a lesson 1 will never need to so le Irn
again. The exporiment hall hy all passers-ly, asiment has been carefully watched
way where all lies by the public highHaldimand Co., Ont. CONSTANT READER

## The Statute Labor Law.

## Cutting Weeds on Roads." I claim that the

 to is very unfair Ontario Municipal Act referred $\mathbf{w}$ ithout not already statute labor enough to do from that. look at the difference in the amount instance, one different farmers have to do. Fo lons. and irom one road to the other. He hastwo hundred rods of road thed a mile man has a corner farm, and perhaps has not over a hundred acres. and in all proababilty has inore
road to look after than the larger farmer much road to see to as some twice as large, and of the wondred-acre farms with nearly two mile

Rapil Hay Curing My experience in curing hary rapidily is, on the
hole, quite satisfactory. I find that much do whole, quite satisfactory. Ind that much de pendor, $I$ find it better to allow about a quarter
clo to one-third of the heads to turn brown before cutting, as it wilts much more rapidly than when
it is cut in full bloom.
$I$ know that 1 sacrifice to some extent the digestibility of the plant, yet the greater surrety of handili"g the hay in the mow without spoiling co the hay wilts raridly and in stead of putting up in coils the afternoon of the day in which it is cut, I leave it in the wind row over night, unless, of cour se, it looks show-
ery.
Next forenoon I suread sut the too ery. Next aren on the apread out the too-green
parts some, and in 1 put it into a large mow where considerable bulk is to be placed, and spread it around evenly in the mow. IT ind
if it is allowed to remain in a henp where dronpe if it is allowed to remain in a heap where dropped
in the mow it ferments too much and rete dusty I expect such hay to sweat out in the mow, and it does sweat, but the hay comes out all right in the winter and spring. At first, when I found
it sweating, I would pitch out the center and let the air in, and put some dry straw in to absorb that now I leave it it alone wand let it sweat out mistake, so
the It cools of arter a while, and the stock rellsh
and do well upon the hay. I also like the prac tice of putting a sprinkling of salt on the hay as it is mowes away. It is not essential to the keeping qualities
the palatability.
of course it
putting in any will be understood that I avoid it, as when that is the case I Ifind it moisture on or less dusty and mouldy. When the getsund is
wet $I$ find it Well as that better to cure clover in the coil, as
which is cut early when very green with a view of getting a crop of colover seed.
When coiling green, witted clover hay When coiling green, witted ciover hay, I use to sweat well before opening up. It then cures green, and is a fine quality of hay, T. RAYNOB

## DAIRY

## The Feeding of Dairy Heifers.

The opinion prevails among breeders of dairy
methe cattle that generous feeding of heifers in calf-
hood and beloro coming into use as milkers has a tendency to impair their miking propensities and to fifx the disposition to produce beef rather
than milk While there may be some than milk. While there may be some ground for
this opinton, if whole milk and rich fat-producting grain rations are fed in the growing period, we are persuaded that going to the other extreme and practicing a system of semi-starvation, as too
many do may seriously handicap the animal as many do, may seriously handicap the animal as
a worker in dairy production when she comes ina worker in dairy protuction when she comes in
to use, and throughout her life. wee are all agreed that the development of a strong and sults in a dairy cow, and the question arisest can a strong constitution be founded in a calf fed, as many are, on insufficient rations of skim milk with poor pasturr, exposed to the extreme heat grain feed to strengthen them and to help puild up bone and muscle and to expand their lung capacity ?. In the desire to secure a big middle and a capacious stomach, we orten see, as the
result of such a system of feeding, a narrow chest, a ewe neck, a wasp waist and a drooping rump, in short, a dwarfed and imperfectly-de-
veloped cow, incanable of enduring heavy feeding veloped cow, incapable of enduring heavy feeding
or working up liberal rations into milk in large measure, but predisposed to indigestion and bloating, an easy prey to disease, lacking the power
to cope with stckness, or to throw it of when it comes, and. failing to
and good-wenring to
There is, we are persuaded, a happy medium in ceeding, midway between these extremes, by which growing and of healthy parents may be kep upow as a milker, without being stunted at any period, and without being made unduly fat at
any time.
Skim milk, fed warm and in moderate anuantity. after the first three weeks, during which time whole milk fresh from the dam is given, is the ideal principal food of a dairy heifer, but
should be supplemented by a diberal ration of bran and oats during the first eipht months at Kast, and the calves should, during that in por
kept in clean, roomy boxes or sheds, and, it pracicable, will be the better for access to a yard
or pasture lot in summer. where, hy free exertnimals better prepared to rustle for a living in he second and following summor of their lives. I liberal feeding of roots and nutritions rourhage
of which clover hay, if available. is the best, will also tend to producing a vigorous and healthy ,r, without impairing her usefillness as a milkr, but rather doveloping her powers to the full that direction. We have known many in
tances of a helfer liberally fed, and declared by

Connoisseurs to be too much after the beef type,
proving an extra miker, and ther becming
satisfactorily refined and cowy in appearance as well, while her strong and constitution, built up by
generons and vigorous mother and milker while a healthy long and successfuer life. and milker throughout a
constitution spoiled by of many a cow has been cramped and being given irregsularly in in over supply, causing
bloating and ioating and scours, checking growth, predispos-
ing to attacks of indigestion and end detracting from the usefulness of the cow a breeder of healthy stock, and as a producer in The points it is doshortening her life term. there is a great difference between fat and flesh; that flesh, which is lenn meat or muscle, is eit her a d diiry or a meand and natural quantity in of an excess of fat-profucing food anat the peas and oil meals, to young and growing animals is a mistake, and that muscle-producing
foods, such as oats and bran, may safely and proftably be fed in liberal rations to either class
of cattlo of cattle at any period.

F. M. Logan, B. S. A.


## A Question of Cows for Profit

In your issue of June 15th appeartd a very
interesting article under the heading, "A Cheese Experiment," which, while very helpful to the dairyman would, I think, have been more helpfu from each cow in the different tests. Here is statement from our factory, which may be of port I find that, A delivered to factory from May 18 th to June 131 h , from five cows, 2,772 pounds same time sent. from eight cows, 2,317 pounds milk, testing 5 per cent. fat. Report also show and after expenses gave 110.88 pounds fat and atter expenses at $\$ 17.25$, he received $\$ 19.02$ expenses of $\$ 17.25$, he received $\$ 19.98$. and after worth 86.23 cents per hundred pounds, and $\mathbb{B}^{\prime}$ s an advance for B of hundred pounds, showing
pounds milk. A delivered to factory daily from each cow 20.53 pounds milk, and B delivered arises, which lot of cows is the mow the question the dairyman? Will someone competent pleas answer through the " Farmer's Advocate."
R. $G$. D.

## "Gassy" Milk.

The value of milk for the manufacture of butter and cheese is largely influenced by the care warm summer noonths, dairymen will he foce to face with the important problem of how to avoid "grassy" milk, a few hints on the subiect may be considered timely. Although much tas been said and written on the matter, it is evident that many continue to produce a very indifferent qual ity of milk, not so much because of intentiona neglect as the lack of clearly understanding the Milk of is an ideal medium for almost any species bers, ranging from a few hundred to many millions in a single drop, according to the surround ing conditions. For practical purposes they may be classified as harmless, uscful, and harmful. Passing over the first, the second class is very necessary to dairy operations, but must be kept
under control, while the third is directly mm portant to the former who is trying to dimgood, pure milk. Gassy milk being one of the most frequent troubles in this connection, we will mention the gas-producing bacteria particularly
as a type of that class. The species is technically known as the Colon Bacillus, because it is ound in large numbers in the large intestine of associated with filth in some form or other Investigations at the Ontario Agricultural College show that the ratio of gas-rroducing germs to
other species in some seventeen examinations of ther species in some seventeen examinations be a very prolific source of these undesirable teria, 20,000 having been frequently obtained rom a single fily Watering troughs, dairy all proved to be the means by which milk was contaminated. It should be noted that there are three essentials effecting bacterial growth, viz
food, warmth and moisture. their development are light, lack of food, extreme of temperature and dryness. When properly used, these may become effectual weapons in checking the increase of undesirable germs, and reducing
the same, under ordinary circumstances, over 95 per cent. Care should be taken to have the
flanks and udders of the flanks and udders of the cows well brushed before nilking, so as to avoid particles of manure,
dried mud, hair, etc., dropping into the milk pail along with the innumerable bacteria adhering to them. As the bacterium is susceptible to moishe germs being unable to leave ar this work Bacteria thrive best in milk at about 90 do rrees $\mathbf{F}$. , the rate of their multiplication decreas Ing with both the rise and fall of temperature se set in cold water, and the milk thoroughly stirred until the temperature has been reduced to about e0 degrees. It is very important that
cooling is not delayed, or these micro-organisms evelop very rapidly. An experiment is reported in which a difference of 18 degrees in the temnerature of two samples of milk caused in 15 er cubic rentimeter, quantity equal to hals per cubic
they subtain in allowing their gasisy ${ }^{\circ}$ there is reaso to believe the become ould soon cease. As it takes from one to three is evident that at a factory a pound of cheese, ounds per day, if three or four cans ing 10,000 ffected in this way, the loss would be considerble. Adding to this the decrease in price for an further reduced In conclusion, it cannot still strongly emphasized that the production and care of milk is the foundation of the dairy industry,
and that eternal vigilance is the price of success.

## Good for the Merchant.

Althougk: F have given up farming, and am in general-atore keeping, I would not like to bo
without the "Farmer's Advocate and Home Magazine." I am trying to get up a subscripHOLMES

IF YOU HAVE A FARM FOR GALE OR MEN'
 CATERE

## POULTRY

## Possibilities in Egg Production.

To the Editor "Farmer's Advocate" ":
In your issue of June 8th, under the above heading, it is pointed out that 140 egrs per year for a single hen is no mean record, and is greatly
above the average obtained. According to the reports of the Poultry Man ager experimental Farm, Ottawa the average on
all their pure breeds for the year $1901-02$ is all their pure breeds for the year $1901-02$ is
barely over 60, and the year $1902-03$ is only 703
eggs per hen.
might be of interest to your many readers. She is a Barred Rock-good shape, tidy rend compact but not pertect color ; was hatched in May 1903, and I have no record of her work up to
Sept. 19th, 1904, when she was 16 months old Sept. 19th, 1904, when she was 16 months old.
From that date an accurate account has been
kept. and she has produced 177 eegra to date kept, and she has produced 177 eggs to date
(June 26th), and now is laying well and in the
 pink of condition.
never offered to sit. During this time she she starting to lay she
 stop moult. In March she quit laying for 19
dyas and cast the rest of her ord coot, but before
the new one had made much progrcss she began days and cast the rest of her old coat, but before
the new one had made much progress she began
年 suopplying eggs again, and continued producing both eggs and feathers in good order. She has
nearly three months of the year to spare yet, and nearly three months of the year to spare yet, and
I consider her a good one. The gratifying part of it is trat sho did best lay ling when eggs ware the best price, Here is the record: September
 consulting memo re prices obtained when these egge were produced, 1 find their value to be $\$ 3.65$ Her care has not been the best., and the housing almost the worst conceivabie-drafty, and These facts, well considered, prove to me that the pecssibilitiess of the hen are very much in excess of anything ordinarily conceived of by the 9 no doubt but breeding from such individuals as the above and keeping farcful records, will produce the desired class of fowl, and the man
who devotes antention to looking after these who devotes a titention to looking after these



NEWS OF THE DAY
Canadien.
per day, has been siruck tearmington, one barrels
A promising discovery of copper and silver has heenn
made in Awenge township. Ont., ten miles trom the
The socialist element in Toronto, which disapprovert
of the Boer war, is raising a strenuous obiection th
having of the Boer war, is raising a strenuous obiection
having Lord Loberts open the Toronto Exhibition.
Discoveries of oil have. been reported from New 0
tario, and an exploring party will be sent out by then Temiskaming Rai
the Abititibi River

The Provincial Government of Nova Scotia has be
roorganizard.
Hon


 are lavyers, and are regarded as oxceedingly able for
the positions which they are to fill.

British and Foreign.
Serious Aghting, in which the robel Marongo hat
been reported victorious, has again oceurred in (iorma been reported vict
South west Arrice.

The drum has been banished from the French minitit. on the ground that it is a serious incumbrancer iil<br><br>


in an accident near

The Danish cadet-training schooner Georg-Stage, was run down near Copenhagen recently by the British and of the 129 cadets on board, 72 wero drowned. The Ancona has been placed under embargo at Copenhagen until an investigation has been made.
The peace delegates in connection with the Russo-
Japanese war are to meet in Washington Russia has already selected two representatives Muravieff, former Minister of Justice, and Baron Rosen, the newly-appointed ambassador at Washington. Japan's delogates to the conference will be Baron Komura, Min-
ister of Foreign Affairs, and Mr. Takahira, the Japan Minister to the United States. In addition to these
Mation there will be army and navy offcers, and officials from Tokio and St. Petersburg. Negotiations regarding an
armistice are in progress, but no announcement lias bren armistice are
made as yet.


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The Moroccan affair still hangs fire. In answer Germany's demand for an international conference
France has despatched a note to the German Gover ment, stating that, in connection with Morocco, her
Government entered into certain other nations which were final and irrevocable, hence beyond revision by any conference. Accordingly, France will not agree to a conference without a preliminary
agreement as to the matters to on the other hand, will hear of no arransed. Germany. will limit the scope of the conference. So far the nerotiations, carried on principally botween
ambassador at Berlin and Chancellor
novel development is the foment which
the German papers, asserting that Great Britain
urging France on, in the hope of stirring up a Franco
German war, an event which would.
German war. an event which would, in effect, hreak th
power of Britain's two most powerfull political rivals in
Eurone
wards England has seldum been more rosentful than an
present. and it is hinted that the German Fmperor han
already caused the Sultan of Turkey to bo sounded ns
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 couraged the war with Japan merelly in ordler that fi.
own hands might be more free. The most hopeful fon
ture in the situation lies in for ture in the situation lies in Germany's fonr of clving
England a similar advantage. and it is now generally
thourht that the Kater England a similar advantage, and it is now generally
thought that the Kaiser will he willing to grant the
French many concessions rather than wive chanco any such posilibility. England's intentions towards
France, however, are of a different nature, and it is evident that. in this respect. Gramany's sumpicions nre
unfounded. Encland can afford to be warlike on accasion, but her natural sentiment fravors peace. and the hy delicacy of diplomacy, enginerer to he he who chan,
cult situantion so as to olitain it.

## THE FARM BULLETIN

## The licrosess ot several milkmen in

## mseovery of formaldehyde in the milk.

T., are American
class of settlers.

At the third annual open-air horse show in Queen's
Park To setters. Park, Toronto, on Dominion Day, there were 400 en-
tries and over 600 horses in the parade, the being about two miles long. Attendance was larg
The Provincial Farm at Compton, P. Q to be Sold.

Seed-growers Field Meeting. The Seed-growers' field meetings, now in progress tario and the various clover-growing sections of onwith decided success, and have been productive of much interest. It is, perhaps, quite safe to say that the greatest clover-growing section in Canada is found Chrough the counties of Victoria, Ontario, Hastings, meetings held in these districts, theren it is of the interested will be most anxious to learn. As delos for this particular section, I have much pleasure and no hesitation in saying that the future awaiting the
clover-seed growdrg industry is many seemed to think it would be should the new as
Bill become Bill become lnw. It is presumably safo to say new see is the superabundance of one particular weed which is partcularly troublesome, rather than a number of dif
ferent kinds, that keeps much of the alakike and clover seed from grading up to the requirements of ther Bill. In Victoria County, for instance, the of the of night-flowering catchfly in the alsike fields,
with the fagethe with the crop, has been accountable for the harvested ing of much of this valuable clover. The seed of catch-
fiy hears Aly bears a very close resemblance in size to the seed of alsske, which renders it practically tmpossible to to
thoroughly separate the two. of oroughly separate the two. The only practical way
ofecuring clean seed when such plants are the field is to remoed when such plants are found in
them before they go to seed, or nt least, before harvesting the crop. This io seed, or
the important points brought the important points brought out in connection with of
the meetimgs, and one which, if carried out, will well
repay the gro repay the grower for his trouble.
The clover-seed midge has heen found in will well bers, working in the heads of the found in large num-
and has aroused the clover plants alarm on the part of those who heretofore considerable yet noticed not." Many who heretofore "have seen,
nrought out to these meetings areds have been hrought out to these meetings for isendtifcation, and
information respecting practical methods of and combating them has been fiven. $\mathrm{K}_{\mathrm{n}}$ the light of present beonditions it is tquite obvious that much greater care will necensarily be required un
the part of the growers themselves to ". clean that
fields." whith the part of the growers themessiles to to clean their
fields," which method is in many cases vastly
 seens from the seeds of clovers of similar size when
fround together in a mixture. apparent, practical nature of these meetings is readlly
judging from the interest shown and the apparent, and, judging from the interest shown and the
discuussions which have taken place, there is every
reason to hope that the good effects will be widespread.

| Temiskaming District. <br> After a somewhat wet and cold spring, the present able to seed as soon as they wished, owing to the cold dampness, but those who are late seeding have the that seeds and plants have hard work to strike at all. crops of the district-oats and hay-give promise of good yields. Red clover is coming into bloom, and alsike is already in full flower. Large red clover seems to be more popular here than any other, with alsike a good second. Swedes are showing well so far, as also <br> These are practically the only crops grown in bulk, though I have seen a very fair sample of fall wheat, also half an acre of finelooking field peas. The latter lieve, also, that wheat will be in this district. I beAt present it the settlers have time to attend to it. |  |
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At present it is more experimental than attend to it. it.
Fruit is consplicuous by its atisan ded upon.

Tooked promising. Small bush fruits should do very
wall up here, for in the
tivated as a small addition they are only seen cul
There will be, or even now is, a good opening for a
man who can suuccessfully grow small fruits, and run
market gardan
market garden for vegetables. Purebred poultry are
being gone into more extenalvel and
being gone into more extensively this year, and in-
cubators are becoming common.
ket locally for eggs, and in the winter for arod mar-
At present the demand is filled by wholesalerg in old
Ontario, but in a few yeara
ohy catch up and capture the local supply will prob-
he is not much touched yct, the average settler simply
feping a cow or two to supply home needs.
ans neiphbor or two. to supply home needs, and ber
We expect to get wood mentinus
$\qquad$
$\qquad$

The Cemadian Seed-growers ${ }^{\circ}$ Convention
 which held its annual convention at Otta wa, June 27 th,
28th and 29th. "I I believe." said he, "this associa28th and 29th. "I bellieve," said he, "this associa-
tion is laying out work that will enable the farmers
Canada to get hold of a few great fund Canles and apply them in practice. When they do this
ciplen they will raise good crops, clear of weeds, and th
millennium will be ten years hence instead of ten thou
sand years in prospect.". His words epitomized th sand years in prospect., His words epitomized the
objects of the organization, and sounded the keynote of
the convention. Although a comparatively small dele the convention. Although a comparatively small dele-
gation had been arranged, the information presented in gation had been arranged, the information presented in
the valuable papers read will be broadcasted through
the press and annual report, so that the educational the press and annual report, so that the educational
effects of this representative national gathering will he
widespread.
widespread
resolutions and business.
On Tuesday morning, 27th, an executive and after-
wards a directors' meeting were held, the opening regu-
lar seasion being in the afternoon. Ing ertain recommendations of the At rectorate, regard-
Ing certer a few changes in the constitution, were adopted.
Ing
Clause 7 , as printed in the ansual Clause 7, as printed in the annual report, had provided
that the Chief of the Seed Division of the Branch of
the Commissioner of Agriculture the Commissioner of Agriculture and Dairying should,
by virtue of his offce, be secretary-treasurer of the association. It appears that a departmental regula-
tion prevents consulting officers of the Minister from
being directly connected with any organization which may look to the Government for financial aid, hence
Mr. G. H. Clark, formerly Chief of the Seed Division,
now Seed Commissioner, is debarred from the al ove now Seed Commissioner, is debarred from the al ove
office, although he will continue to assist the organiza-
tion. Provision was made for the employment of a galaried secretary-treasurer, the choice of the directors
later falling upon Mr. L. H. Newman, who has lieen doing excellent work as district superintendent in the
Province of Ontario.
The necessary alteration, with a few accol
 The general officers of the association shall consist
of a president, three vice-presidents, a secretary-treasurer and ten directors, which bodys shall have power to
add ten directors to its number, and the vice-presi-
dents shall be elected by and from the completed directorate. The president and ten directors shall be
elected each year at the annual meeting, and the secre-
tary treasurer shall be appointed by the directorate. Inry-treasurer shall he appointed hy the directorate.
In clause 10 a requirement is inserted, that appli-
cants for membership carry on selection according to the rules of the association for one year before being
admitted.
A resolution was passed, affirming the primeiple of

















a bushel, sald : "I think every farmer ought to sow
yearly a small plot with wheat got from hand-selected
heads. In this way he could heads. In this way he could always be sure of having
the greater part of his crop sown with pure seed.
Owing to the extent of the field it he he Murray to the eastern portion west, by confining Mr. new Province of Saskatchewan, viz, Manitoba and the
British Columbia Kritich Columbia to a new appointee, Mr. W. C. Mctime this month, to establish his headquarters in CalAt a business session on the final afternoon, it was ment of a couple of auditors, one by the Department that provisulion and one by the Board of Directors; also the association, which meantime should he in otta of It was further decided that, as the C. P. R. had intimated its willingness to provide next summer a train
of one or two cars to travel all over the West and hold ssed meetings, in which case it over the West and
to distribute a large be desirable To distribute a large number of copies of the associa-
tion's report, an edition of 50,000 copies should be Minted. Resolutions of thanks were passed to the torest and support; to Mr. Clarke, retiring secretary and to the four district superintendents, who (with the exception of Mr. Nowman), though serving henceforth ander somewhat difierent titles and acting as attaches
of the Agricultural Department, will continue in alli-
ance with the associsit ance with the association. With regard to the issuance Robertson stated that although buch a publication
might in many ways seem desirable, it would
sound sound principle for the association to use any of the funds recelved by it as a grant from the public treasury
in doing that in doing that which might be considered as interfering
with private business interesta, a form of free advertisement., Whatever action members kind were taken at any time would have to be the out-
come of individual members co-operating among themThe full complement of officers stands: President,
Prof. J. W. Robertson. Vice-Presidents Pret Zavitz, O. A. C., Guelph, Ont.; G. A. Gigault, Quebec,
Que., and John Mooney Vider Que., and John Mooney, Valley River, Man. Secretary-
Treasurer, L. H. Newanan, Ottawa.
Directors elected. Directors elected: Thos, A. Peters, Fredericton, N
B.: G. A. Gigault, Quebec. Que.; Prof. C. A. Zavitz, O A. C., Guelph; John Mooney, Valley River, Man.
Thos.. H. Woollord, Cardston, Alta. : Thos. S. Waugh
North Redeque p. J. (). Dukeque, Olinda, O. I.: W. L. Davidson, Bethel, Que.
Assh W. Wibson, Wolseley Assa.; Morris Middleton, Vernon, B. C.
Directors appointed:
Prof. M. C. Cumming, Truro N.S.; Geo. Harcourt, Winnipeg, Man.; J. W. Wheaton,
Toronto, Ont.: W. L. Smith, Toronto, Ont.; Geo,
Batho, Winniper Me. Wmind Ratho, Winnipeg, Man.; W. J. Black, Winnipeg, Man.
w. Thompson, London, Ont.; J. C. Readey, Charlotte town, P. E. I.. L. S. Klinck, St. Anne, Que.; D. Innes
Toblque River, N. B.

PROGRAMME.

In order to present them more fully, we are holding Ther later publication a number of the papers dellivered
The list of contributors included: Dr. H. Jo Webber Physiologist, In charge of the Laboratory of Plant
Breeding, Washington, D.C. Dr. Wm. Breeding, Washington, D.C.; Dr. Wm. Saunders, Director
Experimental Farms, Ottawa ; G. H. Clarlc, Seed Com missioner, Ottawa : Prof. W. Lochhead, formerly of the O. A. C., Guelph, Ont., now of Sir Wm. Macdonald's
College at St. Anne, Que.; Prof. Frank T. Shutt, College at St. Anne, Que.; Prof. Frank T. Shutt,
Chemist, Experimental Farm, Ottawa; : Prof. C. A. Zavitz, Experimentalist, O. A. C., Guelph; Prof. L. S.
Klinck, Agricultural College, St. Anne H. Grisdale, Agriculturist, Experimental Farm, Ottawa:
S. E. Briggs, Toronto ; Wm. Thompson, London, Ont.; n. L. Smith and J. W. Wheaton, Toronto. Hon. Syd-
ney Fisher addressed the first evening meeting briefly and a few papers were read by men who have been car-
rying on seed selection, viz., Donald Innes, Tobique River, N. B., and F. Kirkham, Saltcoats, Assa.
Frof. Robertson with a few characteristic observations. $\begin{aligned} & \text { He urged the } \\ & \text { value of the work of seed improvement for its effects }\end{aligned}$ upon the people. Training people, especially boys and
girls, to think was a greater gain than an increased yield of ten bushels of grain per acre. It's the seed we sow in our minds that enables us to put thinkiligg Into all our operatlons, that yielde the greatest return.
First we observe facts, then we should try to observe the relation of things in our attempts to evolve principles. The great value of the Seed-growers' Assocla-
tion work is its intellectual force. It will not only in crease our crops, but deepen and broaden and improve Following Dr. Saunders, the gist of whose paper
will be given next issue. Dr. Webber gave a scientifcally interesting paper, on "Pedigree or Crade-breeding of
Plants." We used to read in the geographies sald. of the prescribed limitations of various crop zones. The northern winter wheat area used to be
Iowa: now. through the efforts of the plant breeder, ly the orange area will be extended from Fiorida up into Tenneessee, Arkansas, and Oregon. In this great
work of plant breeding the U. S. Department had folHon. Mr. Fisher sald that he hat been Hon. Mr. Fisher sald that he had been struck with
the results of corr-breading in the United States, and
afermed his beliof in the clatimg of the Canadian Seer-
growers' Association, that our farmers could grow mpe
heavier and cleaner crops by using better seed. He had not hesitated in his Department to establish a Seed
Division, and he hoped Division, and he hoped that the work of the association
would go On Wednesday despatched, the delegates heard Mr. Clark's paper been
the scope of work the scope of work for the Canadian Seed-growerse Asso-
ciation, and after that Prof. Shutt's of Certain Smut Preventives on the vitality of Action
Bluestone and Bluestone and formalin, he said, are the two principal
smut preventives smut preventives. Iron sulphate had also been used, and likewise a mixture of iron and copper sulphates,
in varying proportions, called agricultural bluestone which had been sold in the Northwest. By means charts, giving tabulated results of experiments, Prof.
Shutt showed that cop,er sulphate had deleterious effect upon the seed, the had a somewhat creasing with the upon the seed, the degree of injury in
creat time the seed was kept after treatment. Iron sulphate had little bad eflect, and agricultural bluestone affected the seed mainly in pro-
portion to the amount of copper sulphate it containe It may be noted that, unlike copper sulphate, iron
sulphate sulphate appeared to have no injurious after elfects, the length of time the seed was kept making no difference in the germination. Bluestone, however, was an effect fungicidal properties of agricultural bluestone depended principally upon the amount of copper sulphate con-
tained. Another set of experiments to try immeralion in
lime water to neutralizo the action of copper enlphate on the vitality of the seed revealed the fact that white ceased the the effectiveness of the germination it also do preventive. Prof. Shutt's advice, therefore, a himut sprinkle the seed or immerse it five minutes, using a
solution of be solution of bluestone, 1 lb . to 8 gals. of water, allow-
ing the seed to dry spontaneously. ing the seed to dry spontaneously. With this treat-
ment there will be no serious loss of vitality,
though the and al though the grain may be a fow days Jater in appearing above ground, it will almost or quite make up for the
delay
before harvest. delay before harvest. Leaving the make up for the
speaker turned to formalin, which had been the peaker turned to formalin, which had boen tested con-
siderably at ottawa as a smut preventive. While not without a certain injurious action on the germ of the srain, investigation indicated that a sprinkling of the seed with a solution of 9 ozs. commercial formalin to
10 gallons of water could be used with impunlty that it was completely eflective in destroying aporas smut. The Professor stated that analysis had falled
to disclose any Canadian samples of to disclose any Canadian samples of formalin seriously
below the mark in strength; it should contain $40 \%$ of chemically pure formaldehyde.
Inquiries had been recelved from the Northwest regarding some samples of formalin which were millky,
and in some cases partly solid. and in some cases partly solid. This was due to a
certain physical change in the liquid, technically called "polymerizing." While not pronouncing Anally upon chis point. Prof. Shutt expreseed his opinion that this
change, which in no way affects the chise change, which in no way affects the chemioal composi-
tion, would lessen the effeet of the cormali, upon the germ of the grain, but also upon the spores A practical paper was that of Mr. Briggs, on the lion," who stated that the educational work of the Seed Department was being apprectanted by the soeds-
men. It has in the past been find supplies of pure seed, and the past for them to seasonal causes, was the worst yet. He touched upon through the Experimental Farms, doubting whether the enefite wero commensurate with the cout. What cost Refarmer nothing was lightly valued. Regarding the ways and means of disposing of the operative society, but thought those basie of a cofind it to their advantage to dispose of the esed woul two or three leading seed firms, who afforded the moat natural channel for dissemination. In discunsion it was agreed that any farmer growing selected seed
should receive for his general crop seed a promium of at least 15 cents per bushel above market price, though there is no reason why a man producing very superior seed should not get a greater reward for his enterprise
and pains.
$\qquad$ most enjoyable visit to the delegateo eppent in Farm, where they listened to Prof. Grisdaleoperimental " Some Common Principles which Underlie Mpprove

Determined to Bring Autoists to Time.
It is reported that the Wentworth County Council
has decided to grant $\$ 25$ for every conviction made has decided to grant $\$ 25$ for every conviction made
under the new Ontario law regarding automobile trafic.
This will mate This will make it worth while to wateh the roads. Men -all points along the main road from Flionilton Creet Niagara Falls, which is a favorite highway of motor ists-to watch the roads and telephone along, thue keeping track of every machine, and thereby facilitating
arrest and conviction of law violators. The tapagers arrest and conviction of law violators. The taxpayers
A Fine Knife. the premfum farmers' knife. It is a Ane one, and I am
well pleased with it.
June, 1905.
F. SLATER.

International S. S. Convention. The triennial meeting of the International Sunday-
School Assoclation, which met in Toronto, Ont., recentIy, was without doubt one of the great ventrs of the
year ; in fact, the event of the year, in so far as year, in tact, the event of the yoar, in so far as
religious education in America is concerned. Some 2 ,eoo regular delogates were present, and all told prob-
ably 6,000 persons, Including many of the brightest and ably, , ooor perosons, Including many of the brightest and brainiest people in America. It was an effective demon-
stration of Christian church union in actual practice. In this great gathering of many days' duration, Episcopalians, Preabyterians, Methodists, Baptists, Congregationalists and others dealt with many and varied in-
tereats of vital Importance without a trace of trouble or discord arising trom denominational difiterences While the general scheme of the International Lesson is adhered to as the best for all purposes, the Lesson
Committee were directed to prepare an Committee were directed to prepare an optional ad-
veneed course for use where desired. primary course, which covers some two years' school work for children up to seven years old, is reported giving good satifaction where tried. A Canadian,
Juutice
J . J. Mctaren, was chosen President of the assoolation, and Louisville was selected as the next place of meeting. Vistiors from the U. S. and other
countries all expressed themselves dellighted with Can-

## Mecdonald Institute Graduates

 Following are the results in order of merit of the manual training at the Macdonald Institute, 0 . ualph :course in domestic science (year's mork) Senior Normal.-The Misses: 1, F. G. Williamson,
Burlington, Ont.: 2, M. I. Johnston. Isilington, Ont.; 3 . B. Berry, Mildmay, Ont.; 4, O. G. Kent, Toronto, Ont.; Guelph, Ont.; 7, L. L. Ross, Ross Corner, P. E. I., and
 Iorth, Ont.; 10, M. A. Rath, South Augusta, Ont.; 11.
A. E. Smillie, Bluevale, Ont.; 12, L. C. Culham. Hamil ton. Ont:; 18, A. M. Bell, Tavistock, Ont.; 14, F. Howitt, Guolph, Ont., 15, L. F. Sheeffeld, Toronto, Ont:;
18, R. McCrimmon, Vankleek Hill, Ont: 17, M. Fowell,
 ford. Ont.
O. Conditioned in practice tenching. Junior Normal.-The Misses: 1 , C. T. McCaly, Col-
lingwood, Ont; 2, H. M. Card, Wickiow, Ont: 3 , 4 A.

 A. Robertson, Chateanguay Basin, Que.; 9, H. McDun-
nough, Montreal, Que. 10, R. V. Gardner, Niagara
 Durham, Ont., 14, O, $M$ Winchester, Toronto, Cnt.t. 15,
 1903-05 Housckeepers' Course.-The misses
 Junior Housekepers' Course.-1, Mrs. E. Dunbrack. St. John, N. B.. the Misses ; 2. E. Shand, Port Dover.
Ont.; B. J. M. McKenzie, Galt, Ont; 4, E. A. Sallier.

 son, Eden Mills, Ont., 7. K. K. Mcintosh, Arkona, Ont
o. W. Powell, Gualph, Ont.; ©. Brown, Woodstock, Ont. - Part of year only.
Che fourse in nature study.
 Misges








den, Ont.; G. A. Clayton, Arkell, Ont.; and C. Klinck, and ahbeep, Peter Oochran, Almonte ; alarry cattle and . Kinck, $\begin{gathered}\text { and } \\ \text { swine, } \\ \text { A. . Y yulle }\end{gathered}$
the Course in manual tratining. onditions as laid down by the Ontario Education Do partment, and passed successfully the examinations in tifcates, as followa
Teacher's certiicate, as specialist in manual train
ing $-W$. W . Snider Cualph ing-W. W. Snider, Guelph, On
Teacher's certifcate in
Runions, Cornwall, ont. Mr. H. B. McLean, Charlotetown, P.E.I., and Mr.
Chas. T. Yeo, Little Britain, Ont., have completed part of the prescribed course, and have successfully passed in primary work and woodwork, and woodwork and metal

The Cornstalk Borer
Last week we received from a Kent County sub
scriber a specimen of a small corn plant, with a hol eater in specimen of a side small a orrn plant, with a hinsect found working in in the
pith a good many stalks in certain fields, and ho feared that unless something could be done the corn, crop was
doomed. The insect has been identififed as the corn
der stalk borer (Gortyna nitela), a boring cutworm, ordł narily present to a greater or less extent, but never
known to do any very extensive domage. The lifd history was thus described to us by Prof. Lochhead O. A. C. © The moth lays her egg on the young plant,
and the larva as soon as hatched bores into the stalk and then works in the pith. By about the first of September it gets down into the root, or, possibly, in to the soll, and there pupates. In the spring the mot
 us along with the corn. At this date, practically all the damage that will be done this season is noticable
Prof. Lochhead could ventive one of cutting out anfected stalks, so ns the pre vent the larym from developing into mature insects th lay eggs on next year's crop. He did not regard the


When de Boss Am Away.
By James Frise.
Eastern Ontario Fairs
The following th the final draft of the Eastern cir
-uit of fairs, and the names of the expert judges whi will altend thei

 Sept. 21 ; Vanklieok Hill, Sept. 22 and 23 ; Rlchmond,
Sept. 26 ; Renfrow, Sept. 27 and 28 .

 Io and swine, D. D. Gray, Chate au Blondeau, Septr
 Hetcalfo and Richmond
Mr. Jas. Irving. of WInchester, will judfe the hight
horses at at Brockville Heachlurg, nnd R. Mcloonald an at Metollint, Richmond. and Renfrew.
Judging will take place at Maxville, Sept. 26, andl

au Blondeau

Cobden, Sept. 22. Horsee, John Foraythe; boef
cattle and shoop. G. R. Bradios: dairy cattlo and
cattle and shoop., G. R. Bradioy
swine, A. R. Yull. A number of Ematern Ontarlo men have been employed as exppert judgoe this year. The fudgee roverve
from $\$ 2.50$ to $\$ 8$ per day and expennes.
Thio socioties Irom $\$ 2.50$ to 83 per day and
pay $\$ 5$ for each judge per day.

South Waterloo.
The scanty precipitation of the whole of the period letween last year's growing season and this was causlately been the rule, until the beginining of May, since which there have been froquent and abundant rainfalls, ith cool and ploasant weather. Consequently, vogetaion has bes are confident of another of the series of "fat" years. We are glad for them when they come : but let us never fall into the habit of letting our suc-
 ime as this, because anybody can raiso there is sufficient rainfall; it is in a dry seakion that the virtue of the fertilil farm and the atudious farmer nature's generous mooth, let we also use thent ame conditions to fortily against the future. When clover catches" and grows as it has for some years now, tor not work the clover method of soll improvement These favorable years are golng to dive some farmers aplendid start, while some others will be surprised osnd themselves after a while away back again whero Pastures, though lato in starting, are holding up well, inares is a heoung crop, and both fall and sppring
krains promise to yleld heavily of straw at least. Many
 is spreading agy the last ralna. The growing of peas come less troublesome since it induced farmers to quit growing this much appreciated crop. Whether or not
it ever would be practicable to tever would be practicable to exterminate the pest by topping the growing or peas, it is evident that
time for any such attempt is past for the present.
orr various flourishing towns pravide a Arrat-clasq anget or all
kinds
high. of produce, with prices usually
Butter. at 15 cants principal excention now there are pound, is the
 dairying which ordinarily meats the local demands
promptly
gluts the market during the perlods of flush production: whereas the surplus should be exported as buyer, quite a few fat cattle are stlll on the hands of
farmers who wanted the prtco to rise stull higher. farmers who wanted the prite to rise sttll higher.
Calves are in good demand, with few disposed to sell Daring June, the month for improvements and re pairs, considerable fencing, mainly of w.ven wire, has
been done. In one locality wire is roplacing the the


## Missisquoi County, Quebec.

dairymen of this county. Cattle came through the Winter without much sickness, and went on the grass thal for pasturan. As the weather has been almost The quality of the butter and cheese seems to be better
than in previous and finding on the part of exporters. lities of butter and cheese are being magh large quanpices are higher than usual at this mado for export, Last woek finest creamery butter sold at 19tc. to 20atc. The trade two carloads per week are shipeen active, and about real markets. $\quad$ Buyers have paidd from here to Montper cwt. at the car all summer. Young pigs do not
appear to be so pent very few unfinished hlegtiful as use beinal this summer, and nices should keep up well. Fat cattle are very
nit milch contly
 Farmers found that cattle pald peeter than sheep,
 General-purpose horses, welghing from 1.050 te
 to $\$ 150$ A few fancy drivers have changed hands at
$\$ 200$ to $\$ 300$ each. Crass is looking well, and it appears as though
there will be a large hay cron
 diock-a weed that seems to be sprending rapilily. Grain
is srowing rapiluy, though much of it was sown later It erowing rapldyy, though much of it was sown later
than usual Corn, which is an tmportant crop for silase and also for grain, came up ratther unevenly.
nwing largely to the poor qualty of have been very troublosome, quality of the seed. Crows
the methods usuall Thurlig May the weather was quite entirely. lut the records for June have broke those and watt.
vanars.
Quite a
number of days have ben Tollowed ly warm number of days have been very warm.


MARKETS

## Toronto.

LIVE stock
Export Cattle-Local shippers a largely buying their supplies at the Chicago market, and they need only a lew odd lots to round out shipments. Choice are quoted at $\$ 4.90$ to $\$ 5.35$; good to
medium, $\$ 4.75$ to $\$ 4.90$; bulls, $\$ 4$ to $\$ 4.50$, and cows, $\$ 3$ to $\$ 3.75$.
Butchers' Cattle-Picked are quoted $\$ 4.90$ to $\$ 5.20$; falr to choice. $\$ 4$ to $\$ 4.90$ : common, $\$ 3$ to $\$ 3.50$, and cow Stockers and $\begin{gathered}\text { Feeders-Stockers are } \\ \text { quoted at } \\ \$ 2.50 \text { to } \\ \$ 3.80 \text {, and feeders at }\end{gathered}$ $\$ \$$ to $\$ 4.75$. Calves- 8 zl c. to 5 tc . per lb ., and $\$ 2$ to
$\$ 10$ each. Sheep and lambs-Export sheep are
quoted at $\$ 3$ to $\$ 8.90$ per cwt.; culls quoted at $\$$. to $^{2} \$ 3.90$ per cwt.; culls,
$\$ 2.50$ to $\$ 3.50$ each; spring lambs, $\$ 3.50$
to $\$ 5.25$. Hoge $\$ 5$ to $\$ 6.65$ per cwt. for
and $\$ 6.40$ for Hghts and fats.
bREADSTUFFS. Wheat.-Ontario-No. 2 red and white,
98 c .; goose, nommal, 85 c . to 88 c . Mani 98 c .; goose nomtnol, 85 c . to 88 c . Mani-
toba- $\$ 1.09$ for No. 1 northern; $\$ 1.08$ for No. 2 northern, and 911. for No. ${ }^{3}$
northern, lake ports, 6c. more grinding in transit. Flour-Ontario-Millers find it generally
necessary to accept neeossary to accept buyers' bids to effect

 Steady; first patents, $\$ 5.40$ to $\$ 5.50$;
second patents, $\$ 5.10$ to $\$ 5.20$, $\$ 5$ to $\$ 5.10$
nd shorts, $\$ 17$ to $\$ 17.50$. Manitoba17 Ior bran, and $\$ 19$ for shorts, Toro Oats-Firm and scarce, 44c. to 45 c . for No. 2, outside.
Ryo-00c., Ryo-00c., outside. Ireights ; American, firm ; No. 2 y yellow 65 c ; No. 3 yeltow, 64 fc . to 65 c ., lake Peas-71c. to 72 c . 1
east; 75 c . for milling Rothed Oats milling. for cars of bags, and $\$ 5$ for barrels, on track, here ; 250
more for broken lots here, and 40 c , Country produce. Butter-All kinds of butter are coming
forward freely, and the market has an easy tone. Creamery, prints
do..........18c. to
do. solids
Dairy
lo. Dairy lb. rolls, good to
choice .................15c. to 16 c .
do, large rolls $\ldots . . . . . . . . .14 \mathrm{c}$. to 15 c . do, large roll
do, medium do, medium
do, tubs, goo
do, inferior
 the demand is active. Quotations are
unchanged at at $10 \pm$. to on track, here.
Eggs-The receipts are fair in the mat Egge-The receipts are fair in the mat
ter of quantity, but the quality is very much mixed, and on account of the great
shrinkage, the market is firm in tone
Quotations are unchanged at 16 tc. to Quotations are unchanged at 16 jc . to
17 c .
Potatoes-New are selling at 80 c . to Potatoes-New
90 oor per bushel.
Baled Hay-D Baled Hay-Dull; quoted easier
$\$ 7.50$ to $\$ 7.75$ per ton for No. Farmers' Market


Sin


Caplutal Amathorkod. Head Offies, Tornito, Ont.

Edroard Gurney,
EVERY DESCRIPTION OF BANKING BUSINESS TRANSACTED
 agajiarmera' Notese discountod, Farmera' Salos Notes collooted and advanoes made SIVIESS BIMI Bohool Seotion accounts reoelved on favorable terme
 G. de C. O'GRADY, General Manager.

HORSE MARKET.
iy featureless. Wee of the most notabl events of the week has been the visit o
the British remount commissimers Che British remount commissioners, who
visited the Repository and inspected isited the Repository and inspected a
large number of horses. They showed
great discrimination in their purchases, and appeared to have a thorough under-
standing of their needs, the result Lhat very few of the animals exhibited came up to requirements, and only about
a dozen were selected. They are to re
tur
Ther turn again, however, and, in the mean
time, have commissioned Mr. Burns to purchase all he can find of the required
quality and conformation at $\$ 145$ for quality and conformation at $\$ 145$ io
troopers, $\$ 160$ for gunners, and $\$ 200$ fo
black chargers. black chargers. The general market, as
stated above, has been dull, but when the season is considered, the demand for
commercial classes must be remande fair, though the market for these classes is held in repression by the high prices
demanded. demanded. Good carriage horses and
saddlle horses are also in brisk demand
Cor for thoroughly-broken animals of the
good-acting good-acting, showy-looking class.
Burns \& Sheppard's list of prevailing
prices is as follows: Single

## Single ${ }^{\text {hands }}$ hingle 

 horses, 15 to 16.1 hands. 130 to 200Matched pairs and carriage horses, 15 to 16.1 hands. 300 to 50
Delivery horses, 1,100 to 1,200 lbs. ....................... 100 to 150
General-purpose and express
horses, 1,200 to 1.350 lhs horses, 1,200
Draft horses,
lbs. .......
Serviceable
workers

## drivers ..................... 40 to The range of prices for the week as eported by the Canadian Horse EX

 reported by the Canadian Horse Ex-change, Jarvis St, is
hands cress and carriage $\$ 125$ to $\$ 200$
$\left.\begin{array}{l}\text { Single } \\ \text { horses, } 15 \text { to } 161\end{array}\right)$
horses, 15 to 16.1 hands. 150 to 250
Matched pairs and carriage
horses, 15 to 16.1 hands. 350 to 700
Welivery horses, 1,100 to
1,200 1hs. .......
Ceneral-purpose and express 125 to 175
horses, 1,200 to 1,350 lbs. 140 to 200
Draft horses, 1,350 to 1,750


Chicago


## Montreal.

Butter-Local market firm, in sympathy with the English. Fancy Town ship creamery, 20tc. ; fine to finest, 1910. Chec. : good to fine, 1914c. to 19ac Cheese-Exporters complain of the qual ity. Finest Quebec, around 94c. : finest
Ontarios, 9fc. to 9tc. New York shipments have dwindled away York ship nothing.
Eggs-Dealers' attempts to put prices
own in the country are not succeedin very well. Straight-gathered still selling in Montreal at 16 c . : very large, 18 c . in single cases, and small, or No. 2, 14c.
Potatoes-Market for old stock in a
excited condition, some getting up to 80 c . per bag of 90 lbs ., delivered into ing about 65 c .
Beans-Price a shade firmer, due to con tinued wet weather, and fears throughout ut fair consumption demand, and dealors ask $\$ 1.65$ per bushel for prime pea
Honey-Lowest wholesale price for
60-lb. tins of white strained, dark, or buckwheat, belng quoted at 6 gc . Canadian oats being unusual position,
Cricarce, and
price controlled by ander price controlled by Anery san stocks in
store. No. 2 oats, Soc., store. Live Stock-Export market fairly steady Imis week. Improved demand for ocean
ireights, especially from the West, indicat ing that there will soon be quite a Hittle cctivity in the shipment of ranch cattle,
No enquiry as yet, it is sald, for grass
eed Ontario cattle. Price of frightal red Onturyio cattle. Price of freight has
stifened nevertheless. The local live-
 animals were lighter than usual, but as demand was also light, prices were not
strengthened. Packers were not very
eager for hogs, so that they sold et to 6 qu. for heavy and mixed, according
to quality, light selects being 6ic. to 7 c .
lest cattle sold
 3łc. at $4 \frac{\mathrm{c}}{} \mathrm{c}$. to 4 fc .; medium solling at
to 4 c ., and common at 3 c ., while The thin, poor sturf varied below while
figure. Sheep were steady
ci.
 Calves were in demand, and some of the
fine animals brought $\$ 10$ each, others

## Cheese Board Prices

$\qquad$
 Madoc, 93c. to 9 9-18c.; Brockville, 9qc.;
Belleville, 9fc. to $911-18 \mathrm{cc}$. Alexandria, C. ; Vankleek Hill, 9 9-16c. ; Cornwall, 9-16c.:
tertown,
N.
N. or large. and 9c. for small
Yr, butter, 20 c . twin cheese

## Buffalo.

Hogs-Heavy and mixed Yorkers, 85.75
$\$ 5.85$; roughs, $\$ 4.80$ to $\$ 5$; dairies, Sheep and lambs-Spring lambs 88


## British Cattle Market

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peanuts ; fatality in cows : aud-
get of questions993aoking for a collie ; new collepe ofagricuiture; unsure sire; wate
proofing cotton-preserving hamsMessrs. B. H. Bull \& Son, Lrampton
Ont., proprietors of Brampton JereyHerd, wroprie. ". since Brampton Jersegtising in the 'Farmer's Advocate.young Jorsey bulls for sale, we have sol.almost all of them. There are just
lew choice, lusty ones left. Wrepreparing to to make a large exhtlit nowWinnipeg Fair in July, and our sto: ark
will be in grand ahape
in wowill be in grand shape. Wo have
daughter of Eminent 2nd,daughter of Eminent 2nd, the $\$ 10$, 11 aner's Advocate cut appeared in the Farm-ing. Advocate of June sth, just spring-will likely be full of rich promise, andairs. Minette of Brampton, last year
sweepstakessweepstakes cow at Toronto, Is again
commencing to spring, and should be ingood shape by fair time. Our bulls,
Bhould be ingBlue Blood and Brampton Nameless king,
will probably both be out in form batt anClarksturg, Ont., a young hull of rich
,edigree and individual merit: to $\mathbf{M r}$. $\mathbf{E}$.
great daut of Lusita of Bran;-aradis, Ottawa, a son of Brampton


Life, Literature and Education.

## A Versatile Canadian.

The other day the "Farmer's Ad-
vocate" office was favored by a vocate " office was favored by a
chance call from Mr. J. W. Bengough, whose genial countenance afpears on our page to-day, and will be recognized wreaders.
"I heard you lecture several years ago in a vildage away up nea
one of the staff remarked.
one of the staff remarked. "Oh, yes," he laughed, "I don't
think many of the villages escaped." It is to be hoped that not many of them did "escape," for to see
an instance of "Bengough's" wonan instance of "Bengough's" wonversalulity with which he turns from drawing to lecturing, or reciting
from poems which he has himself from poems which is an event to remember. His plan usually is to "strike "a
town or village a day or Lalf a day town or village a day or his lecturo. betore the time set
The intervening time he utilizes in
hunting up the celebrities of the humhing up the celebrities of the and learning some little "hit" in regard to them orked of before an audience. Whem the nigkt arrives, chalk in hand, he begins to draw
his .. subjects," and the audience folluw with unflagging interest from the making of the first stroke until or two, the face is completed, and the "subject "-who is probably somewhere in the audience laughing astands before in a photograph, and many times more interesting. Such a power is ruly a gift, for the cartoon
Mr. Bengough was bura in Toronof John Bengough, a native of St. Andrew's, Filieshire, scotland, and Margaret Wilson, of Bailieborough, future artist and poet was two years old the family moved to (Wni, by, Ont., and there the young J came noted among his playmates for came wonderful skill in drawing and carving figures from wood, potatoes, candiest, and also for his aptitude for reciting and singing. Although not of a studious nature, he displayed considerable lalent
dowed with a marvellous nemory dowed wine memory which to-day stands him in good
drawing his cartoons.
Aster his cartoons. spent some time at the High School where he matriculated at an early age. He also spent a short hime in tion to go on the staff of the Whitby Gazette. In 1872 he secured an ap pointment on the tor while
and
whilling the position and local reporter, he started, the well-known publication, " Grip,' the only one of its kind in
Canada that ever made its mark In $18{ }^{7} 4$ he made his first appearanc as a lecturer, and has filled engageas a lecturer, and has nince, engage-
ments every season since, having
besides making appearances in Great Britain and the United States. Mir. Bengough has published ${ }^{\text {two }}$
volumes of verse, ". "Motley," and In Many Keys," and has enough ame, all of these poems having pre viously appeared in various news papers. He has also published semi "The Gin Mill Primer," on the emperance question, and the " Up to-date Primer," on the labor quesrogularly to the Chicaro Public an other journals. His "Caleb Jink ins" letters will be well remembered by "Farner's Advocate" reader, he has written several comic operas comedies, and a tragedy. One o, was produced with great success in

Mr . Bengough has, for a long time,
been deeply interested in the social question, and is a devout follower support of which he has writte
 King,
May
grandly
power flow in ever-widening

Whe merry monarch of somed olden line To match our one St. Lawrence." aivine. But just , ,beyed." But just cbeyed."
Unity Day ". : In Many Keys, page 17. -Sir John A. Macdonald. Mot puige 51 . We rear the shaft that by such out- "By this handful of poor ashes-all ward sign By this handiul of poor ashes-all
that's left of tiin: we knew-Leet us swear the "rong he fronted shall See turned to assles, too ! See ! before our sticicken columns goes
 On which our soldiers, by the grace of in his talismanic name."
God.
--Death of a Reformer. boundary line.
andy's Lane Monument: I. M. K.. $\begin{aligned} & \text { Beside the grave's new-rounde.l sod } \\ & \text { By some dear instinct close we come, } \\ & \text { Heart draws to heart. tho we are }\end{aligned}$

Heart draws to heart, tho we areEnnobled by no title but his name, We hail him Gladstone, homespun gentleman,
-Gladstone Me Mot."

The old, old fashion, Death, that doth not change Death,' With blinding snow-wreaths on the And doth not know our nice- And cleop.s and darkness dread appal,
ties of caste,
What can they do th'
 ever strange,
Brings all at last... Death of Prince Victor : Mot eath of Prince Victor: Mot., "Mis but a cloud of splendor rolling by,
page 77. - Her face, though all wrinkled, is radiant with truth, has an expression more
lovely than youth: lovely than youth:
fer form, though tis bent,
has a beauty more real has a beauty more real
han Romancer's, or Puet's, Tis the beauty of goodness -
a halo divine,
ho ideal woman-your wother
and mine." leal Woman Mot wother
His nature was a rusting mountain stream,
Mist faults but eddiins which it.
swiftess bired.".
$\qquad$
huttor than great, he stoo
And dumbly seeh to share the rod.
We do not know what is to be,
We cannot guess, wo cannot see
can but stand and wait for (God) For famished hearts of men.
$\qquad$ kind,
alls on the bronze of Burns's mortal
moult To mourk its virile beauty, not to find The dust in crevice or in mantle-fold,
So let our thougnt fix on his spirit Mold,
IIS broad humanity, his love of truth,
His sconu of meanness (ce things that give his work immortal youth,
And herceforth stand as they have
$\qquad$

Mr. J. W. Bengough.

## Preserve Ideals

several books, which may shortly be before the publice With all kis
geniality and fund of humor, he evidently regard life as a eerious prop-
osition. osition, and its possession as a
sacred trust. He is a Presinverian sacred trust. He is a Presisterian
a staunch believer in the or hodox
Gospel a staunch belierer in the or hodox
Gospel, and an out and-ont often crop oun, lime the politician of either party must recognize in them,
as well, the linsic principles for Which he has cwir limetled right, truth, and the high idmals which can
bring dignity to the humblest life.

Selections from Bengough.

## In differing forms.

heaven
In
differing
$\begin{gathered}\text { Torms. } \\ \text { All h harat } \\ \text { streaum }\end{gathered}$

The New Observatory at Ottawa. (Ottawa correspondence.) Standing on one of the highest points surrounding the City of Ottawa is situated the new observatory of the Do-
minion of Canada, on the northern limits of the Central Experimental Farm. The magnificent now building is just alıout completed, and in a few days the Do-
minion astronomers will be translated minion astronomers will be translated
from dingy offices in the city to the brand-new dome-capped building at the
Experimental Farm.
The intention is Experimental Farm. The intention is that the Experimental Farm is to be the
Greenwich of Canada. A new fifteenGreenwich of Canada. A new fifteen-
inh telescope has been erected with
which to help on the good work. which to help on the good work. wit Things happen to the sun ; things hap-
pen on the carth. The scientist believes pen on the carth. The scientist believe
that there is a direct relationship be tween these things, but he has yet find it. It is the missing link
meteorology. When the astromer fi meteorology. When the astromer find
out what comes between the monkey and out what comes between the monkey an
the man in the solar system he will, s the man in the solar system he will, s
he declares, have done the greatest all great things for the material welfar of mortal man. Canada's new telescop
may yet be the means to this end. may yet be the means to this end.
This telescope cost a thousand do an ingh, when you come to consider it as a " "15-inch " telescope, which means
that the lens-the important part of that the lens-the important part of the
instrument-is 15 inches in diameter. instrument-is 15 inches in diameter
The whole cost was a little over $\$ 15$, Mo. The telescope is only a laby comm-
ooa. pared with the big spy-glasses of
Lick and Yerkes observatories, Lick and Yerkes observatories, but it
a powerful magnifier all the same. a powerful magnifier all the same.
is as perfect as the age has learned to
make it, and is big enough for the work make it, and is big enough for the work
it has to do. A telescope may be too it has to do. A telescope may be too
large. Some of the big ones of the large. Some of the big ones
scientific world- 36 inches aud not be used to their full capacity except for part of the year. The explanation
is that they magnify the atmospheric is that they magnify the atmospheric
waves, and so make trouble for themsolves. Kin' make trouble for them-
Prof. King's new telescope is 19 feet long. The mechanical part was built in
Cleveland, the birthplace of the Yerkes machines. The glass was ground in Allegheny, Pa.
Down below the foundation of the observatory walls there begins the sub
structure of a huge pier which sub structure of a huge pler, which goes
right up into the dome and ends with an iron column. On top of the iron column is the telescope. The whole
mechanism of this huge magnifier is of mechanism of this huge magnifier is of
the finest and most delicate kind. lou can swing the telescope up or down or any way at all with one hand and the
turn of a little wheel, and it nove Curn of a litlle wheel, and it moves
without the faintest squeak. graphic apparatus is attached to it, and
the whol the whole thing turns on an axis, which turns on another pointing due north and
south. The angle at which any tele-
scope works must scope works must be determined accord-
ing to the exact ticular locality. latitude of the pa You get to Canada's telescopo by
climbing a succession of tuiresun you find yourself in the dome the chances are that you will be surprised. You Will see the roof suddenly come apart
or you may discover the whole dome t. be moving round. Your suspicions wil be set at rest when your susp that somebody is pulling a rope, that there n!
wheels everywhere, and indications wheels everywhere, and indications o
ball bearings. The dome, you will be
told, is made to Which is made on a huge steel frame
Befom Clevelund Before very long you will find that
there is somilthing clse that moves you
ascend ascend an wooden structure like miniature
beseball bleachers, preparatory to a look through the telescope. You find that The Weachurs are moving. The thing is
on whol Moreoser, the contrivances
are sucl are such that the nstronomer can sit uf
aloft and move his tolengen parch ntmund without comine down. difrerent is necessary berause there are
are difiterent places-therr
are threp hundred thousund in the
 nown. Une. thoush in circlos of that
 sconp. The the mechanism of the toln
star.


The $\$ 15,000$ Telescope.

One of the queer things that this blg the sun and stars, and for measuring
telescope enables you to do is to look their velocity in the line of sight: around corners. It is done by means their velocity in the line of sight ; of a little brass elbow fitted with ra- angular distance between stars and their flectors on a principle which has before position angle ; a photometer for measur-
now been employed in unconventional ing the magnitude or ways. The elbow is convenient when of the stars ; a stellar camera for

the telescope is pointing almost straight or up in the air, and the astronomer cant photographing stars and nebule, and a | very well get under it. |
| :--- |
| The big fifteen-inch tescomer can't $\begin{array}{l}\text { solar camera for photographing the sun. } \\ \text { In addition to these there is an instru }\end{array}$ | The big fifteen-inch telescope has a ment called a meridian circle, for de

number of attachments to assist the termining the position of stars and astronomers in their work. Among eral transit instruments for determining them are a stellar spectroscope for de- time and longtitude and latitude. termining the constitution or elements of $\begin{gathered}\text { time and longtitude and latitude. } \\ \text { One of the most important functions }\end{gathered}$
the observatory will be the operation fi an electrical time service throughou wa. the departmental buildings in Otta-
For this puriose two large wa. For this pury 1 ose two large siderial
clocks have been installed. The Obser vatory is also equipped with a large number of surveying instruments, as the data for map-making the securing of which will be among the principal works of the new institution. The Observahands, but during the of about fifty about thirty of these will be engaged in survey work throughout the Dominion. while Dr. O. J. Klotz Dr. W. F. King Plaskett are among the other offcials The building itself, as the accompanying engraving will show, is a handsome, sub-
stantial structure The architecture is of no particular date.

Working with the Hands, " or Mixing Muscle with Brains.

Beyond offering a few quotation from Baoker T. Washington's second book, "Working with the Hands," I dare not attempt the further trac ing of his successful career, but I it to the attention of the readers of the "Farmer's Advocate "' everywhere. The invitation to inaugurdustrial training pursued at Hampton was a great step upwards, yet it was but an initial step after all,
and it required the exercise of the same indomitable courage and unquenchable perseverance which had
led the little negro lad upwards and ed the little negro lad upwards and what we may call the beries of successes which have crowned those efgee itself solved ity own wondorful problem, but it can point as its outcome to no less than nine similar nstitutions, which have been char-
ered under the lawe of their al States. First there had to be overcome the fifty years of enforced labor, the
emancipated race should be as idle as it pleased. The negro had to be taught the difference between to be
ing worked ") and being ". ing worked " and being ". free to
work:" The task undertaken was the teaching of the students to lift abor out of drudgery, and to place it on a plane where it would be something to be dreaded, and, if possible, avoided
SOME PRACTICAL RESULTS. On page 79 we read "The visitor


The New Observatory on Central Experimental Farm Grounds, Ottawa
who wishes to inspect the Tuskegee Institute is met at the station pulled by horses raised on the school farms, whose harness was made in the school shop. The driver wears school tailor-shop, and shoes by the student class-work. The visitor is
assigned to a guest room in a dorassigned to a guest room in a dor-
mitory designed, built and furnished
by the students. His bathroom plumbing, the stcam heat in his room, and the electric lighting uere
instailed by the students. The colk
furniture of his room came from the shops. The young woman who takes care of his room is a student
working her way through the instiworking her way through the insti-
tute. After supper she will change
her wearing apparel to a blue uniform dress and a neat straw hat, all made in the school. The steam
laundry sends over to ask if the visitor wishes some washing done,
and girl studente send it back, proud of the snowy polish of shirts and
collars. The visitor is asked to be
a guest in the teachers' dining-hall, and most appetizing is the bill of
faro laid before him ; the ham, roast fare laid before him; the ham, roast
beef, vegetables, corn bread, syrup, butter, milk, potatoees, etc., are all
products of the school farms, cared for and produced by student labor." to the conclusion that in the - instruction gi ene, muscle predominates over brains, 1 would refer you to the and hand were the twin influences brought to bear upon the pupil. Theory and practice were welded together into a harmonious whole, the of the intelligent brain, and of these united came perfect knowledge and accurate performance. The master
mind decreed for his student that, mind decreed for his student that,
"It would be wronging both him and the system to keep him at the work-bench all the time. Everything
likely to help him in his career was movided for his trailing, because
pacademic teaching was as important to his future calling as his skill with the plane or saw. It was made
clear to him that he could not become a really good carpenter unless he had bieen also a diligent scnolar."
So, likewiso in the agricultural so, lasses. ${ }^{\text {and The }}$ The real examination comes in the spring-not in the writ-
ten papers, but in the school orchard. Amongst the $\begin{gathered}\text { school } \\ \text { treese they are required to identily }\end{gathered}$ the borer 'and apply to the trees the remedies and apply down the their books and pictures," and this is the sy:-
tem applied to every branch of the education of those intelligent of the cored
students at 'Tuskegeo. Booker T. Washington never forgot the uplift-
ing effect upon himself of success in ing effect upon himself, of success
conscientious work, even in the very
smallest thing, the self-respect which grew out of the satisfaction of conquering difficultics and in the grow-
ing ability.
them well., to do things and to do the tillers of the ground. When
or . Wephing ton Tuskegee, Bookchurches, farms, slept in one-roourd
cabins, and studied present coudi-
tions, with a view to more thorough tions, with a view to more thorough
preparation for his life-work. He found that in a country where pigs,
chickens, ducks, geese, berries, peaches, plums, vegetables and other
wholesome roods could be produced
with with little elfort, school teachers
were cating salt pork from Chicag"). and canncd chicken and tomatoos
from Omaha. The countryasde abounded in fragrant flowers, but
none found their way into the hous?s or upon the dinner-tables. The few
text-books found in their cabins were full of pictures relating to city hife-
pictures of grrat ollice buildings, not a, street cars, farm ssencosses spreading A BATTLI: IOAINST PRE.JIDICE. enough out of thin .... whe for petting


THE FARMER'S ADVOCATE.

Do IfTeach My Pupils, or Do They Teach Me?
(Mrs. F. E. Kughey.)
It was a dull evening. The rain beat
against my window-pane in a pitiless
 seventh to the minor chord already
vibrating in my heart-strings. Altogether it had beem a dreary day. Mud was tracked on to my pretty new rug, paid for by so many hours of hard work and throbbing nerves. My pet canary,
grown discouraged, had surrendered his place in life, and the sight of his empty carge brought the tears to my eyes, al-
ready tired with eight hours of black notes dancing on horizontal lines.
dreww my chalr up to othel blazing fire the grate, and settled down for a wailtng "warum" concerning the hard lot
assigned to me, of trying to convert assigned to me, of trying to convert
stupidity into brains, and sticks or tow strings, in human anatomy, into things of beauty
from the viewpoint of the technic. from the viewpoint of the techni
But a bright fire is not a good do-
veloper of unreasonable despondency; and as I felt the warm glow of the coquettish flames, there seemed to dance
from their fickering light, right int from their fickering light, right into my yellow hair and eyes brimful of mischief. Dear little girl, I love her, but she is so heedless. She left out so many
noteq this morning ; and over and over noteg this morning; and over and over
again we went through the simple exer-
clso clse to get each note in its proper place. "A Alice, if I should ask you to spend
a morth with me next summer, how a mould you like me to fort summet your, breakfast once in a while, or your dinner?
Or, if I should promise to take you fish-
ing and then forget to do it, would you like it ?"'
Her face dimpled with amusement as sho answered brivehtly: "I think I
should remind yount."
". Ah but do you think you would have a nice time ${ }^{\text {"." }}$
"No, Miss
.. Now den child. times I have reminded you to put in
those notes you leave out, and you still forget. Have you ever thought that
your own life is like a tune, and that you cannot neglect a single duty
leavitho a hout in the melody?
last as
the compore the composer knows how to use his
tones, so God has a beautiful plan for oach life, and if you omit one duty, one
privilege, your outline is spoiled. Fvery
note has its place, just as every little girl has. Sometimes it is on the playground, sometimes in school. It is some-
times serious, sometimes gay, sometimes slow, and sometimes fast; but always
it must be its best wherever, however, whenever used."
Sweetly serious grew the blue eyes as my meaning dawned on the bright little
mind. knew music was Mise that: I thought it
didn't matter so much it harder now, I am sure I can get every
note in next time," and with a loving hiss she gave place to a little boy.
Here I leancd forward Here leancd forward to put a stick
on the fire. 1 took off my shoes and ." Oh, dear ! I I thought. " why must they teach. For they return to us far think of him..".
But thought asks no permission
$\qquad$
$\qquad$
leading him into the dirt, from which ho enverges too late to stop for anything
and comes to me tardy and dirty, with a rebellious look on his face Lesson one: Neglected duty by one 1 added burden to another.
This morning $I$ got his hands washed and then asked for his scales. He hadn't practiced them.
"They are no good anyhow."
My heart sank. I wondered if they were. "Charley," I said brightly,
"how do you llike that new plicture of
"I say," he answered, "that's great
Where did you get it? What's that man dolng on the wall ?" " "Don't you see ? He has scaled the of the enemy, has placed his flag on the highest point."

You bet, he was brave you suppose he grew so ${ }^{\prime}$ "
" Born of the right stuff
" So he was, and just as well bred
He went to school where he had to do a lot of silly things. To put his gun down, to put it up, to walk forwerds, to face about. He had to do what thy
officer told him, silly or wise, over and over again every day for months. It was very poky. It soemed foolish; but ho learned the greatest and hardest les great men, wise menson, rich men, good duty patiently. He leari duty patientiy, promptly, thoroughly,
cheerfully ; and to do his best, whether he saw the sense or not. And now ho
is famous. He saw the chance to ture the fort, and because he had learnea ture the fort, and because he had learno flag : but it has introduced him to the
admiration of the world. I guess you

The boy sat still and thought earnest ly, his eyes on the picture, and then he
played his scales. One mistake after another. His thumb on the wrong key The wrong finger over. A natural for sharp, then the wrong note sharped.
muttered pucker. But finally we got the tangle Putting my hand on his shoulder. said, "Bravo, my soldier boy! You
have conquered your worst enemy. Never forget: 'His not to question why, his
but to do or die,' and this will be a Now I must face the same lesson, fo e general is not fit to command until he
has learned to obey. A guide is not to be trusted until he has learned the way,
every step. Can I teach until I have learned the lesson first? Am I soundtrue, and in the right place? Am Striking wrong notes? Am I obeying
my Master in the practice of daily duties? Am I honest in every move
doing His will, even when longing follow my own whims? "Oh, my Mas-
ter," I cried, "teach me to yield my will, and to obey Thee as well as my to be patient with them as Thou art Verily, "A little child shall lead
them." they teach. For they return (Part of a
more than we give to them.-- Part
Prize Fssay from "The Etude."

Gems of Thought.

 inleness ?
Does racked, desk-bound man to lock his busi-
ness cares in his offico free once more; to exchange exhausted
and iritable nerves for sound, healthy
ines whtch will carry plensurable sensa-
ilons insteand of reaning

## "MUSICAL"

The tone of the POPULAR Sherlock-Manning ORGANS is pronounced by experts to be perfect.

Characteristically
Sweet yet Powerful
A rare combination
Durability
It will be a pleasure to
send you a descriptive Catalogue

The Sherlock - Manning Organ Co.,

## London, <br> Canada.



Some men say bot urance, "I must die to win Wrong
Our 15,20 or 25 year endowment Policies let you win and enjoy the fruits of your savings.
Conservative investment of funds and low expense of management make gratifying profits for policyholders.
Your family are protected against, possibly, misfortune.
Write us, giving your age at next birthday, and we will explain cost of such a policy.
head office: Waterloo, can.



Puzzle Competition.

$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
The answers to the puzzles given in the last three numbers of the . Farmer's Ad-
vocate" should be sent in one list. vocate" should be sent in one list.
Number your answers correctly-from I. Number your answers correcty-from 1.
to XXIII.- even though you may only be able to solve a few of the problems
siven. All under sixteen may compete. given. All under slxteen may compete.
Write your name, age and address plaimly at the end of the list of answ
send before the end of July to

Cousin DOROTHY,
Box 70, Newcastle, Ont.
The Blind Man
He was an old man-an old blind man.
He friends ! No home ! No friends, did I No friends! No home ! No friends, did I
say ? Yes, he had one-bis faithful dog. say? Yes, he had one-his faithful dog.
Once old Daniel, as we will call him, had a happy home, a bright, happy
home; but the loved forms who had home: but the loved forms who had
homelt there had faded by his side. He
dwe dwelt there had faded by his side. He
had looked on, and felt himself powerless had looked on, and fren orm of death from
to prevent the grim form
coming and robbing him of his loved to prevent the gobing him of his loved
coming and robsing
ones; but one by one they had perished, ones; but one by one they had perished,
all save one, and she was married, and
ane, he knew not where. She had gone, he knew not where. She had
married against his will, and he had
promised never to speak to her again. married agever to speak to her again
promised never
When he was left alone in the world, he When he was left alone ht for her, but he
would have gladly sought
knew not where to seek. Very soon he began to drink (to dead-
en his sorrow), and then to gamble, until en his sorrow), and then to gamble,
he lost all his money.
One night, in a drunken row. he had One night. in a drunken row, they be-
his eyes so badly damaged that
came of no more use to him. Since
then he had roamed through the streets, came of no more use to him. Since
then he had roamed though the streets,
led by his faithful dog, Trot." Some-
times trew times he would be chilled through by the
keen frosts of winter, and, again, weak With the ferce hent of summer. Truly,
t was a sad life that old Daniel led.
One cold day when he had been out
from early morning and had received
nothing, the wind was piercing, and the nothing, the wind was piercing, and the
old man shivered and trembled so that old man shivered and trembled so that
he was unable to welk any farther, and
he sank on the sidewalk. Soon he felt he sank on the sidewalk. Soon he felt
the cord jerk, which he held his dog by, the cord jerk, which he held his dog by,
and he knew that some one was putting
some money in the litule basket which the ome money in the litlue basket which the
log carried. Then a soft voice said.:
Why do you sit here in the cold ? Why do you sit here in the cold ?"."
Because I have nowhere else to go.".
aid Daniel, feebly. "Ob, then, come Because I have nowhere else to go,"
said Daniel, feebly. ${ }^{\text {On, then, come }}$ nome with me, ", cried little Marion.
Come," she repeated, taling his hand .. Come," she repeated, taking his hand;
and old Daniel, not knowing what else to to and old Daniel, not knowing what else to
do, allowed her to lead him away. They so, allowed her cane to a large house, and his
son cand
ittle guide led him up the marble steps little guide led him up the marble steps,
ind into the warm hall. "Mamma," and into the warm hall. "Mamma,"
said Marion, as her mother came to
meet her, "this old man has nowhere to meet her, "this old man has nowhere to
go, may, he stay here ?" "But, Marlon,
my pet., exclaimed Mrs. Russel. A who
 is this old man?" "Oh, mamma, I Mrs. Russel led Daniel to a seat, and by
degrees got him to tell her his sad
story. When he spoke of his lost
 "And," continued Danief, "I'll never
hear of her again, madam.". "F Father, hear of her, again, madam.
dear father,", was all the answer he got,
as Mrs. Russel threw her arms around as Mrs. Russel threw her arms around
his neck, "I am she; you have found your daughter at last."
I do not need to say that old Danfel was well cared for until he died.
Trot, his faithful dog, who had served Trot, his faithful dog, who had served
well in times of hardships, was not for-
wotten in times of ease. Now he lies gotten in times of ease. Now he lies
blinking at the fire, and wonders (it dogs can think) is the past is not a
horrid dream. LUCY COWAN (aged 13).

A Day on a Canadian Farm. Some people like the city better than the country. I think I prefer
the country, where there are lots of the country, where there are lots of
birds and Howers. It is beautiful to see the little lambs and calves playing about in the fields. One day we had two cousins, Harry
and Lucy, visiting us. As they had and Lucy, visiting us. As they had
lived in the city ail their lives, it was a treat to take a trip to the country. We planned to have a pic-
nic all by ourselves. So the next morning we were up with the lark, had our breakfast, and did our work. We made up our lunch, and about
nine o'clcok my sister Grace, my nine o'clcok my sister Grace, my
two cousins and myself started on our trip. We went through lane and meadow, until we came to a beauti-
ful wood-you can imagine how ful wood-you can imagine how
beautiful it would look in the beautilul it when the trees are decked in their robes of yellow, green and
red. So we went through the wood red. So we went through the wood
first. There were many thing to first. the trees going to their different homes, squirrels hopping among the
branches, and once in a while you branches, and once in a while you
will see a rabbit or fox. We played
hidhent hidd-and-seek among the trees for a
while. Atl ance a curious kind while. All at once a curious kind
of bird flew right in front of me. We of bird flew right in front of me. We
traced it until it flew into a large tree, we waited until it flew away When wo looked we saw a nest stil
more curious: it consisted of two more curious it consisted of tw
leaves, a dead leal sewed to the liv leaves, a dead leal sewed to the and
ing one, aned with tine down
and in it were five lithle and in it were five little eggs. W
afterwards heard that it was call. the tailor-bird, on account of it sowing leaves together for a nes
We heard Tiny, our dog, barking
and going in the direction of the and going in the direction of the
bark, we saw Tiny in the middle of
the creek fighting furicusly with the "reek fighting firi usiy "th a
ground hog. hust you walt," said,
Harry, and you will see some fun."
The ground hog turned, spitting and The ground hog turned, spitting an
hissing. The dog spemed afraid hissing. The dog seemed afraid to
attack him, hut at last he summonnol
up enough courage and madle a dash up "nough courage and madc a dash
a thim, grabed him thy the neck
and shook him until he was sure he


The Ruth Self Freder does not consist simply of a device for cutting the bands and another for forcing the grain into the threshing cylinder. The Roth differs from all other feeders because it holds the cut bundles and bunches until the feeding cylinder thins them out properly, and then lets them go steadily to the threshing cylinder.
Study the sectional view and see that the grain is brought under the band knives (detachable and renewable) ou a grain-tight carrier that does not leak and has no sprocket chains to break. Then the grain passes under a swinging deflector to the retarder, which positively holds the bundles and bunches until the feeding cylinder combs them out to the proper depth, passing the grain directly downward to the threshing cylinder at the proper angle. All of this operation is perfectly controlled by the governor.
Compare this with the action of any other feeder. No other feeder has the positive retarder. All others have one or more devices for pushing the grain in, instead of holding it back, as was done in hand feeding.
Ruth Self Feeders and repairs are kept in stock at London, Ont.
All thresher companies can supply and attach Ruth Self Ferders, which fit readily on any make of thresher.
For catalogues and other iuformation call on or address


PARSONS BAND CUTTER \& SELF FEEDER CO.
was dead. He then buried him for place where there were quite a few another time. $\Lambda \mathrm{s}$ we were at the
creek, we got out our fishing-rods creek, we got out our fishing-rods
and tackle and started to fish. We got on fine, landing about a dozen small ones and two or three large
ones. We then got our baskets and ones. We then got our baskets and
found a shaty spot, where we ate our lunch. After lunch we went down
the creek until we came to a place the creek until we came to a place
where the road crossed ; we took the where the road crossed; we took the
one to the right. We had only gone a little piece when we came to the

Hot Weather Hints from Helponabit Dear Dame Durden, -1 thought the Ingle Nookers would like a recipe that I have used for years. I make a tem jar full, and keep it ready Three eggs, $1 \frac{1}{2}$ cups of milk, 3 tablespoonfuls melled butter, 1 , of mussugar, $1 \frac{1}{1}$ cups vinegar. If you have cream the butter will nut be needed Put tho milk or cream into a double
bolicer, and while it is coming to a boiier, and while it is coming to a
boil mix the sugar, mustard and salt smooth with cream or milk, and
beat the eggs lightly. beat the eggs lightly; then add all
to the milk or cream in the boiler Let it cook for a few minutes, as for a boiled custard, then add the vinegar when it has cooled a little. This dressing is good for potato, cabbag
or lettuce salad. A Nico Cool Boil hard as many eggs as ar needed for the family, and leave them
in cold water until necded. Wash and cut up lettuce fine, and mix the dressing with it. Put it neatly in to a salad bowl or on a meat dish Take the shells of the eggs and cut
them into halves, then into quarters and arrange them on the lettuce The yellow and white eggs look very
pretty on the green lettuce. This pretty on the green lettuce. This
dish would be liked when meat would not be touched, and is a nice dish lor tea or Sunday dinner. I thinh svery member of the Ingle Nook who has a garden ought to have plenty
of lettuce all the summer. It is su easily grown, hut requires the rich est of soil and plenty of water to
make it grow quickly, and the more make it grow quickly, and the more quill be. The Nonpareil is a good
wutdoor atetuce By sowing a litule outdoor lettuce. By sowing a little
patch every two weeks you can have patch every two weeks you can have
a supply of this , xce l'ont vagetable
till the frost comes He frost comes. HELPONABIT

## Busy Bee's Budget

again !
enjuye
to write Nookers" "that 1 am inspire I have a real longing to put all my thoughts on paper and send them
right off to you, but proper expression of those thoughts dous not al
ways come easy, and then agrin, thele are so many visitors to be reccived.
and all must have a place at your cosy liresid
Many are the useful hints throw, out by correspondents, and every uses for conmmon coal oil as I. My when the wind blew down the chimney that it was difficult to clean. thought of coal oit ; the black marrs
fled before it.
There is nothing better to brighten and clean a copper
boilcr inside and outsid.". Any nickel or steel parts of the range iospond wonderfully to an applicaWhth with it and rub the dirt and
arasce wfin well. nd then polish with
nit dry cloth. It will clean paint,
namove the mamy mixture from
paper that nas stuck

## ning, ir not allowed to remain to

 paper-sticking too long the thy You spoke of feceiving suggestions regarding the furnishing of the dining and sitting room. Our sitting -I think it is the olive shade-with crimson table cover and hangings, though the latter scarcely deserves the stairs; but the color makes a nice contrast to the cool green walls, and with white curtains on the threelarge windows, theie is no other large windows, thele is no othe
room so nice to my ejes. I would like to say, though the ampect has been concluded. that much regret leaving the country if ever I were called upon to do so. We have work in plenty, but we have advantages far superior to our town
sisters. 1 should like very much to add a few more lines to "Cousin Bee" about working single-handed,
but am afraid this letter is already but am afraid this letter is already
on its way to the wastebasket. Wish ing you and the chatterers a happ summer-time. $\quad$ Lanark Co. L. S.-Is it consistent with the rules of the Nook to ask for the
names of correspondlents,
with names of correspondents, with a
view to corresponding with them? view to corresponding with them?
If Cousin Bee would care to write me I might give her some suggestions that might help her as they
help me, especially if she has little help me, especially if she has B. B B
ones. If Cousin Bee wishes to write to
Busy Bee, and will send me a lette Busy Bee, and will send me a lettr
enclosed in a stamped envelope. shall be pleased to address and fo
ward it. I may say, however, th ward shall be very sorry to to lose those helpful "l suggestions
Ingle column, 13usy
$\qquad$
Dear Dame Durden,-I just want to
thank those who so kindly replied to thank those who so kindly replied to
my anery re butter bowls. In fact my , wuery re butter howis. In fact 1 feyl cuite indehted to them, and
have no doubt their replies woul have no doubt their replies woul
also le helpful to others as well. Since the warm weather has come there is so much ironing of littl
shirts, dressers. etc, that I have been wondering if all our. Ingle Nook readers have an ironing-board Mon is a very simple one, but so ver
nseful that 1 think 1 must tell how
it is mate it is mate It is a onc-inch pine
voard, about 1 f inches wide at one voard, about 16 inches wide at one
nind and taper to atiout 6 incheos at the other, and is 4 ii et ling Mine M M
is rounded at both ends, , fut I think it would be bether quare at th
large end. I cownd mine on one side woild cotun batting, then with over Put one and on the table the other on a chair and slip th
skirts. cte. to be ironed over,
that one part is that one part is not ernshed whil
the other part is being done. I have
a liule a little serew-oye serewed into one new subject, re hume thomstings tion for some good lutters on this Yours gratefully, MAkTHA

## Five Roses

flour is not kept by any grocers, although it is sold by all. The price and quality of this brand is such that all wise housekeepers insist on having it, as its superiority over ordinary brands is beyond question. Ask your grocer for it.

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a paying line. We can सive you
W line of New Specialties in FRUIT,
ornamental
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controlled by ourselves alone,
and offered for the first time for and offered for the tirst time for
sale in Canada, which includes es Luther Burbank's latest crea-
tion, the Maynard Plum, the
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ALUMINUMMOCK ETT MICROSCOPE, useful to Farmers, Fruit
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Pedlar's Steel Siding and Shingles At $\$ 2.00$ and $\$ 2.55$ per 100 Square Feet







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## WE WANT TO HELP YOU MAKE THE FARM PAY

If you can do away with two or three helpers and one or two horses, this will mean money in your pocket. The harvest months are near at hand, and during the summer there will be a constant demand for help for various work around the farm.
Fairbanks-Morse "Jack-of-all-Trades" Gasoline Engine
is the assistant you want, strong and hardy, never strikes, never kicks, always works, never sleeps, wants but little care, asks no salary, needs no watch, and worksfor your interest alone. It Saws Wood, Grinds Feed, Shells Corn, Pumps Water, Runs Cream Separator, Runs Thresher, etc., etc. The Jack-of-all-Trades Gasoline Engine is sent to you all set up and ready to run or delivered ready to connect to

## Clyde, N. Y., Sept. 25, 1904.

Fairbanks, Morse \&
Gentlemen,-
I have used one of your 2 h .-p. Jacks for a year in my evaporator and on the farm, sawing wood,
cutting feed, grinding feed and pumping water. can saw stove wood as fast as two men can handle it and cut cornstalks with an eighteen-inch cutting
box as fast as two men can handle the stalks. To sum it all up, it is the best and cheapest power I eve saw. I have run it 6 or 8 days on 5 gallons of oil. I has bought one is more than pleased with his mashine.

JOHN M. GILLETT your pump. There are over 40,000 in use at present. The labor one of these engines saves will pay for itself in a few months. We want to explain further regarding our proposition, and if you will cut out the coupon below and mail it to us we will send you free particulars and pictures showing the engine in actual operation on different farms.

Write to-day. Don't delay, and we will show you how the up-to-date farmer runs his farm economically.

The Canadian Fairbanks Co., Ltd.
up-to-da
econom-


The
C. c. co,

Please send me a
copy of "Ideal Help copy of "Ideal Help-
Talk," and all information regarding your Jack-of-all-Trades Engine
for general farm use.

444 St. James St., Montreal.




 feed. We find it the best for chick-
ens, and it is so convenient. Wishens, and it is so convenient.
ing the lngle Nook continued pros perity.
The following recipe for a choco-
late drink has been taken from late drink has been taken from
"cook-book" which is generally re garded as an authority : For each
cup required use one cup milk and cup required use one cup milk and
one square chocolate (equal to one square chochatoonful of grated chocolate). Put the cold milk in a
saucepan. saucepan; grate the chocolate and dissolve in a little warm water, then
add to the milk. Stir unill the add to the milate is thoroughly incorporated, and let the milk boil up once. Beat
well to make smooth, sweeten a litwell to make smooth, sweeten a lit
the if necessary, and serve at once, Add a little more hot milk if this seems too rich. Some use one-third
water instead of all milk. This, of water instead of all milk.
course, is a matter of taste. The, following nethods of cleaning gilt frames may be found satisfactory: (1) Dissolve one tablespoon-
ful of washing soda in one-half pint hot water, and when cold add onchalf pint lime water. Sponge the
frames carefully with this, then
with old water, with cold water, and dry with cot-
ton batting. Do not have the sponges too wet for fear of soften ing the glue which fastens the gold
leaf to the frame. (2) For the cheaper so-called "gilt" " frames
Mix Mix one ounce of soda with the
whites of three egrs. and whites of three eggs, and apply to
the frames with a soft brush. rubthe frames with a soft brush, rubare uny scraped patches, cover the
spote with a little Diamond spots with a little Diamond gold
paint. (3) Washing the paint. (3) Washing the Prames
with water in which onions have been boiled, has also been recommended, but we do not know where
in the efficacy of the onions lies.
All is not gold that glitters, and a
do not shine in wociety who think the do.
 A- Eneldemen mes eecooted thes: A What wlll you take to stand all night "A beofateal at. Paul's ? the frank reply. naxt one accosted was a Scotc Seys Sandio: "What will ye gie ?" he was asked what he would take to atand all might in the dome of st Paul's, he willingly answered :

## IT MUST BE

WELL FOUNDED
Steady Growth in Popularity of Dodd's Kidney Pills.
Wade by Oures Like that of Blmon V . Landry-Be Tella about it Himself. R-JER BOURGOIS, Richmond Co.o 0. many men in this part of Canade thom Oodd's Kudney Pills have relleved of aches and pains and weakness and made strong simon $V$ Jandry good day's work is Mr. umerous friends who can vouch for the - I wa belle his cure.
ays, "with lame back, weak leag," he int then of the heart, general weakness and shortness of breath; in lact, I could
ot work and was a total wreck III I could not get anything to help me hey did me good Kidney Pllls. But sed three boxes and $I$ 'm back at work It is the cures they make that make
Dodd's Kidney Pills so popular. Thelr popularity has grown steadlly for thir-
teen year. It muat be well founded.

[^0]The LEAVENWORTH CASE.


THE FARMER'S ADVOCATE.
FOUNDED 1863


## Central Canada Fair

AT OTMLA WA
Seppt. Bth to 16th, 1905
A Great Show for the Stockman
28 Gold Medals as Special Prizes in Horse and Cattle Classes
Enlarged Grounds
This Year, $\$ 86,000$ being Expended
Write Secretary E. McMAHON for a Prize List
ADVERTISE IN THE ADVOCATE,

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Steamboat Service now in operation.

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OPENING OUT NEW FARIM."

The finest Wheat Land in North-east
Assiniboia. "A section is a
fortune." Average crops for five years, 25 bushels per acre.

## WM, PEARSON \& CO. WINNIPEG, MAN.



IS IIVVALUABLE TO SUFFERIMG WOMEN


ELM GROVE SHORTHORNS

 and partu. G. SANDERS \& SON,
Boz 1133. Bt. Thomas, ont.
"I must confess,", saide Maud, ". that
1 am disappoolnted in Harokd. Ho isn't

 and ho
treight."


With wiflowerts

## Re Tulips.

Miss M., M., Dungannon, Ont., Writes: " Will you please Fublish
in the flower department instructions regarding the treatment of tulips'?
Should the bulbs be taken up as soon as they are done flowering? Where should they he kept if taken
up ? How soon should they be up ? How soon should they be
planted again in the fall? Should the bulbs be divided?..... I like
the 'Farmer's Advocate, very the 'Farmer's Advocater very
much. It is a very helpful paper.' Ans.- When the tulips have ceased
blooming and the foliage has ripened off thoroughly, take the bulbs up,
dry them, and store them away in dry them, and store them away in
a cool place-the cellar will do very well if it is not too damp. In the fall, just before hard-freezing weath-
er sets in divide the bulbs and reset er sets in, divide the bulbs and reset them. In preparing the bed, hig
the soil up and pulverize it thoroughly to a depth of about a foot.
Sandy loam, enriched with leaf-mould Sandy loam, enriched with leaf-mound
and well-rotted manure, is best, and At all events, do not put fresh ma nure near the bulbs; freskl manure in fact, should never be placed near
bulbs of any kind. Having pre fared the bed, make holes 4 inches apart each way, and of such a
depth that the bottom of each bulb may be 4 inchul of sand in each, set the bulbs, and firm the soil about
and above. Whicn the ground be gins to freeze cover the bed with leaves, strawy manure, etc.-placing brush over to keep it down. In the
spring, when all danger of severe
frost is irost is past, remove the covering
gradually, and work the soil a little to suppress weeds. The tulips will require very little care other than
this until after they have bloomed.


Mr . T. S. Cooper, Coopersturg, Pa.,
is reported to have purchased from the is reported to have purchased from the
Gerdney Farm herd at White Flains. N. Y., a Jersey bull calf, by Golden Fern's
Lad, and out of Blue Bell, for $\$ 3.000$. Desirable horses are in better demand
than for a number of years, and prlces
are ruling higher. Once more the are ruling higher. Once more the
prophets of evil, who declared that the prophets of evil, who deciared thal the
hicycle and auto would drive the horse
out of business, have proven false. So long as the money circulation remalns
high, the demand for horses will be good. Young stock gain faster to the amount of feed than older stock. The same feed
will make more pounds in the yearling will make more pounds in the yearling
than in the two-yar-old, and so on
Hence, if one wishes to get the highest possible price for his feed, he should give
it to calves and yearlings -let others foed
the three- and four-year-olds.


TRADE TOPICS.
THE SUCCESS LINE.-Amarg concerns very well known to threshermen for the general excellence of their producta is
the Parsons Band Cutter of Self-Feeder Co., who were the ploneers in making a successful band cutter and selp-feeder for threshing machines. This company has lately made transfer and storage arrangements in London, Ont., and will keep in stock such machines and repairs as are offered to the trade here, chief of which, or this season at least, will be the weli-
nown Ruth Self-feeder, for a number of years made at Halstead, Kansas, but now years made at Halstead, Kansas, but nang.
owned by the above named company.
The . Success The "Success Line," the trade name so
Atting to that company's goode comitting to that company's goods, com-
orises the Parsons feeder, the Ruth feeder, the Buffalo hay press, Success corn husker and shredder, Success engine
stoker,
Success engine tender Succuas stoker, Success engine tender, Succoss
belt guide, and Success feed water strainer. The "Success Line" is repro-
sented in Ontario, at London, by Mr. A. H. Shoemaker, and in Western Canada, at Winnipeg, by Mr. O. D. Kimble, man
ager for Parsons Hawkeye Mg. Co.,
aales agent. sales agent.
the ontario winter fair, 1905. It has bent dalr shall be held at
provincial Winter Falr Guelph, Ont., December 4th to 8th. These
dates are the week following the International at Chlcago, so that the exhibitors both exhibltions. The total value of
bash prizes to be offered amounts to $\$ 9,000$. This means that large in-
creases have been made this year to the prize money of several departments. The prize list will be ready for distribution hortly, and any person wishing a copy
Day obtain one by sending his name and
address to A. P. Westervelt, Secretary,
Parliament Buildings, Toronto.
Judges Judges hive been appolnted as follows
Cattle: J. T. Glboon, and one other not
imdly newtion the FARMRR'S ADTOCATR.


Jack - OF - ALL - TRADES GASOLINE ENGINE.-In another column. will be all-Trades ': Gasoline Engine, an imple ment for which the manufacturors clafm an unexampled comblnation of the qual-
tiles which make gasoline engines so useitles which make gasoline engines so us-
ful on the farm.
Convenience, safety, conomy, efficiency, are but a lew of its many superior points. The ad. is con-
vincing, but if after reading it you still doubt. write for further particulars and information to the Canadian Fairbanks Co., Ltd., 444 St. James St., Montreal. Great Fair, the Central Canada Exhibition, which is to be held September 8 t to 18th, promises this year to be the best in the associations history. in en-
sum of $\$ 8,000$ is being expended in en larging the grounds and adding new buildings. The prizelist has also been Increased. Special inducements are of-
fered stockmen, and no less than twentyelght beautiful gold medale are given as special prizes in the horse and cattle
classes. The exhtbit of live stock is alclasses. The exhbit of live stock is al-
first-class at thls fair, as the Ways frst-class at this fair, as the
directors leave nothing undone to ploase tockmen and breeders. Every want of the breeder is alled. The accommodation is second to none in Canada, and
those who have not yet exhibited at Ottawa can not do better than plive the show a trial. The grounds, as enlargon, are almost seventy acres in extent. Mr.
E. McMahon, the Secretary. will lie E. McMahon, the Secretary. will he tion.

## Sheep are still holding their position ae

 the steadiest element in the live-stock market, and it would he well to increasehe breeding fiocks by holding from market the best owe lambs. to. Manufactured
Messrs. S. Price \& Sons. of Erindale.
reel County. Ont, have secured from the
hnrd of sir Wm. Mulock the grand year-
ling Shorthorn hull, York Pilot

$=50758=$, now elchteen months old, and
weighing 1.50 In lis. His sire and dam
weighing 1.50 n ths. His sire and dam
were Imparted from the Windsor Farm
herd of His Mieaty
were Imparted from the Windsor Farm
herd of His Mniesty King Edward, and
his hreedling as weil as his indlyiduallty
herd of His Malesty King Edward, a
his hreeding as well as his inddyviduall
is sald to be of axcentional merit.
is satd to be of creentional merit.
present he is located in temperary qua
terse until the completion of a Ane
ters until the completton of a flne get of
farm
into them are fertile they will hatoh as surely as the sun rises. Sim so easy of operation that the women folks and children can run it as well as anybody. There is no danger of overheating. The
regulator is so perfect thatit oan't " "go wrong." rouad experience with roasted ohilke if your use a Chatham. There's good money in poultry
if you get started right Bay the timetrid if you get startod. right Buy the time-tried
and well-known Chatham and be sure of and well-known Chatham and be sure
resultt. We are so sure of resulte that wo give youtso years to pay for the IIocubat tor. No
Cash untll November, 190 0 . Cash until November, 1906. Our superi FREE BBO1 entiliod "Hiow to make Elves you the whole story of sucoeseful poriltry
raising by incubatorn. Send for it The Manson Campbell Con, Limited Dopth 1 Chatham, Oatarlo

WONDER OF THE AGE
Milas's Manure and Graval Loader To operta o platiorm lis let down to the ground rood abovel sum oient for a to po-horion lowd, which


 on Jame Bap Ralliond. Orders promptly attendei

Leaskdale, Ont wrek's
CANADIAN CORDAGE \& $M^{\prime} F^{\prime}$ Gi. CO., LIMITED


VIEWED FROM EVERY POINT, THE BEST
Hard Work in the Harvest Field becomes a
Pleasure to the farmer who ties his grain with
BINDER TWINE

## MADE BY THE

canadian cordagr \& w'PG Co, LIMITBd, Petrerborough
 IF YOU REQUIRE ROPE WHRITEHE

Our Rope recognized by the Trade as Absolutaly the Besta


QUESTIONS AND ANSWERS. Miscellaneous.
reaistering clydes. of have a draft filly, with four crosses breeding. To whom should I apply fo
information and terms of registration ?
Ans.-Write Mr. F. M. Wade, Department of Agriculture, Ottawa, who is registrar, a
formation.
ormation.
the law re dehorning.
A New
Ruinnswick correspondent en-
quin horning ? Can the Soclety fir Prevon
tion of Cruelty to Animals take action against any one for dehorning cittle ?
Have been cautloned by members of that Have been cautloned by members of that
society not to do so." Ans.-There is no New Brunswick Iaw
overing this matter, except that in a law entitled "Respecting the Society for the
Prevention of Cruelty to Andmals " it refers Prevention of Cruelty to Antmals" "it refers
to section 512 of the Criminal Law of Can-
ada, but we underatand that the ada, but we understand that the construc-
tion put upon it by the courts is that detion put upon it by the courts is that de-
horrings, if done in a proper manner, is not considered to be a criminal act or
finable. As a matter of fact, it is more humane to dehorn than mot, to dehorn.
The operation ts not inhuman, nor more The operation Is not inhuman, nor more
painful than some other operations that
are consldened necessary for the theat itare consdidered neccessary for the test in-
terests of stock-breeding, such as castra terests of stock-breeding, suct
tion and docking lambs.
BLACR APMTs.
Last week there was left at our offc hy a Midiesex County subscriber a stalk
of curled dock, bearing a swarming
cluster cluster of small, lustreless black insects,
identified as specles of the black aphfs, identified as species of the black aphis,
a suckiing insect, which is abundant upa sucking insect, which is abundant up-
on all kinds of vegetation. In this case on all kinds of vegetation. In this case
there were two kinds, one winged, the
other wingless ; the former, it may be observed, lay egge, the latter kind pro-
duce lving young. Both kind are
eniormously prolfic, as almgle aphis emormously prolifc, as a slmgle aph
may produce thousands of young in very fow days. They are injurious to
vegetation, sucking the julce from tender shoots, amd when they occur on useful or ornamental plants means should be
adopted to combat them. They have, of course, many natural enemies, including
certain species of caterpillars nad the grubs of the syrphus and laced-winged
files, which destroy myriads of them. Artificial measures are, washing the
plant with strong tobacco water, or plant with strong tobacco wate
spraying with kerosene omulsion. stream of water from a hose will also
knock of a great many. Cherry or plum trees badly infested sh
with kerosene emulsion.
blasting stumps
Can any reader that has had experl-
ence in blasting pine stumpé tell us what success he made of it? I Inave run stump-puller for years, but now labor 1 to
so high it does not pay, and na there so still a lot of large pine stumps
are state
about three and four feet, what is the about three and four feet, what is th
best way to dispose of them?
nurham Ot Ans.-In the "Farmer's Advocate" Ans. -1 nth and Dec. 1st, 1900 appeared
Nov. 15 th and
letters from men who clasimed to heve letters from men who claimed to have
had considerable experience in hlasting had considerabie experience in hiasting
large stumps with dymimite, and would not return to more primitive mothode of removing them. The requirements are a
dirt auger, it to $2 \ddagger$ inches in diameter dirt auger, 14 to $2 t$ inches in diameter,
with stiank about 5 ft. long ; Wooden tamping rod, a fuse cutter and cap crimper
Sink the bole till ellightly past middle Slink the hole till allightly past middile of stump, then ineot dymamite and rem
tighty to the bottom. This applies gnly to the firat that goes in. The last cartridge with thie cap and fuse attached must be inserted with care, and pressed
contly home, after which the hole is filed gently home, after which the hole is file
up with sand or dirt, taking care mo up wimp it too much till 4 or 5 inches away from cap. The amount of dyna-
mite varies from 1 to 3 lhs., accordimg mite vartes from 1 to 3 lhs., according
to mature of soil and size of stump, and the cost of blowing out stumps from 10
to 2 c cents each. The materials may be had from any large hardware house.
The advantage in blasting with dynamite is that the stumps are generally
torn to pieces, so that they can be tora to pieces, so that they can be
readily handled for haullag away or pil
ligg to burn.


Buras \& Shoppari, Propritores,


PanyTR

 The it thepret marcted in Oavaio try nuber THORNCLIFFB STOCK FARM CLYDESDALES ROBERT DAVIES Has two-year-olds, three-year-olde and aged mares for sale, in foal to "Right Frices. City addresa 36 Toronto st. TORONTO, ONT. Clydesdale 8tallions and FIllies.
Irnporbod and Oanadian-bred. For nelo: Threo

 CLYDESDALE STALLIONS AND FILLIES.
Alo HMOKNEY BTALLIONS FOR BAL at roasonable pricos. Come and
geo them, or writo to ADAM DAWSON, Cannington, Ont. Clydesdales, Ahorthoras and Leloosturn-



## The Successful Dairyman



The NATIONAL CREAM SEPARATOR<br>UTEY?<br>Because it makes money.<br>EEOT?<br>By saving cream<br>By saving time.<br>By saving strength.<br>By saving repairs.

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STOWE PARK STOCK FARM BULLS FOR SALE

 THE SUNNYBIDE HEREFORDS .


 MUROK OTOK ABERDEEN-ANGUS
Our present offfering is beven Young bulls,
18 months old. All sired by the oghampior
 the young ooanh stallio
18t at London this year. IB. BUTT \& BONs. Ollnton. Ont arm, adjoining Guelpht Cil JAMISS BOWMAN TAFOREST VIEW FARM Didils from 8 to 12 month HEREFORDS, prizewinning grootk. Sovname lines; ohoto thdiliduals for sale. ${ }^{\circ}$ BARGAINS Por 30 days. Darham cow. $\begin{gathered}\text { cows } \\ \text { yearg, and bull calt, by }\end{gathered}$ bull, $\$ 100 ;$ two dark red bulle, 9 months, $\$ 5$
oach $;$ Yorkshire boars and sows, 30 to 40 ibs

 Shorthorn Bulls y have for gale two good ilt for service, sired by improred soothish Pee
$=4042=$. Come and Boe, or addrest.

## Rothma



 Shorthorns
ing. Young stock of either sex
usually for sale. Inspection usually for sack of either sex
of herd invited. Inspection $\mathrm{N}, \mathrm{S}$, ROBERTSON,
SHORTHORNS FOR SALE
A few young cows and heifers,
either with calf or calves at
foot. At a bargain if taken soon.
JOHN FORGIIE,
SHORTHORNS
Six young bulls, 20 cows and heifers,
by that grand bull, sire of unbeaten
 K. FAIRBAIRN, Thedford, On SMORTHORIS and CLYDESDALES
 splendid Clydeadalee ; 3 mares regis-
tered. All young.
JAS. McARTHUR Pine Grove Stoek Paem. corlurs, ont. 8 First-Class Young Bulls And an excellent lot of cows and
heiferri. Scotch catul. imp. and home.
bred. Rich man's cat ite at poor man' brid. Rich man's cattle at poor man's
prices. Also high-chath York shire atal
Berkshiro swin
DAVIB MILNE, Ethel, Ont., Huron Co. ROWAN HILL STOCK FARM SHORTHORNS
亚 J. WATT \& SON Some ververuperior Balls Shorthorns - Wera have eor G.T.R. \& C.P.R.


QUESTIONS AND ANSWERS. Miscellaneous.
transplanting sproce trees. 1. How late in the spring may you
rensolant Norway spruce trees? are about five feet high. 2. Would it be better to leave them until fall? 3. Give general directions for transplanting. A SUBSCRIBER. Ans.-1 and 2. Spruce trees may be
moved with success at almost any time moved with success at aimost any the year, except when the young shoots are growing. It is well to avoid
transplanting immediately before dry transplanting immediately before dry
weather sets in. As a rule, June is weather sets in. As a ruth in which to transplant spruce, but June will be
nearly gone by the time you read this nearly gone by the time you read this;
and unless there is a prospect of conand unless there is a prospect of con-
tinued showery weat ther tt may be better to leave yours till fall.
8. Ind planting evergreens, one must
bear in mind that he is hanidling a tree bear in mind that he is havidling a tree
in full leaf, which will rapidly lose its in full leaf, which whe loaves if it is exmoisture through the le. The sap, too,
posed to sun or wind.
has in solution a large proportion of has in solution a large proportion of
pitch. which becomes solid and insoluble pitch. which becomes solld and insolubhe
in both root and branch very soou when in both root and branch very soon when
the tree 19 out of the ground and ex-
one posed to air, hence the roots are best
kept in mud or water, and the tops tramsplant when the weather is cool and tramsplant when tun weascured by clouds. A plow may be used to open out the
furrows whde and deep. The roots of the spruce are shallow and spreading, the spruce are shallow and spreading,
and this yatural position should be secured in transplanting. For best re-
sults spruce trees réquire cultivation for sults spruce trees réquire cultivation fon
two or three years at least. Keep two or three years at least. Koep a
loose sol mulch about them, and you
will be practically independent of rain. Cultivation will induce deep rooting, and result usually in the production of
better growth thai will mulching, which is employed by some instead of cultiva probably canker in turkeys. I have young turkeys three weeks old,
which a few days ago some showed signs of being sick, and would not eat. Three
have died, and, on examination, found a
white substance under tongue, down the throat, and in the roof of mouth. Have
ted them bread squeezed out of sweet
milk, hard-boiled eggs and onion tops; te them hard-boiled egges and onion tops:
milk, hee them in shed in wet weather, and
have
have old turkey in coop, and chicks in have them in shed in wet weather, and
have old turkey in coop, and chicks in
in and pen in dry weather. What ails the
young turkeys? What I I do to save
the rest of them? Have they had


隹


## Awaken

 The LiverAND YOU REMOVE THE CAUSE OF indigestion, biliousness

DR. OHASE'S KIDNEY-LIIER PILLS.
The liver, when in health, illters bllo
from the blood, where it is polson, and poura it into the intestines, where it io working of the geation and a proper Once the liver becomes torpid and slugginh in action the "bile poison " it ness. thunes indigertion and headacho The tongue is costed.
The breath bad.
The complexion muddy
The bowele Irregular.
Besides the palins and aches consequen on the polsoned condiltion of the ay such diseases as Bright's dibease and ap pendicitils.
Dr. Cha
Dr. Chane's Kidney-Liver Pllls thor oughy cleanse the lddneys, Hiver and
bowels, and by thelr direct action iver cause a healthful flow of now on the ald digestion and ensure th now blie to There action of the bowels. digestion, blilousness and consticatio can be so promptly and thoroughly curer as by Dr. Chase's Kidney-Liver Pllls. a dose, 25 cents a box, at all deaters or Edmanson, Bates \& Co., Toronto The portrait and nignature of Dr. A. W
Chase, the famous recipebook author, are
R.A. \& J.A. WATL Salom P.O. $\begin{gathered}\text { Rlora Station, C.P.R and G.T.R. } \\ \text { Telophone in house. }\end{gathered}$ Sur herd of seventy-ilve head of Sootah-brod compares faverably with the best . Inspeotion
and correspondenoe invited. SHORTHORNS FOR SALE



 Forest HIII Stock Farill Shorthorns ${ }^{-3 \text { sohoio }}$ serviceable age, and a fow good heifer oalves
For particulars apply 0. W. EMAYS BOOTOH SHORTHORNB FOR BALE

 MAPLE LEAF 8TOCK FARM
4 Oholce Young Bull For gale, Also oome cows and heifer and prizewinning SHORTHORNS and DORSETS

Write for what you wantire Also a
number of young Yorkshire sows
for sale.
D. Bartlett \& Sons, - Smilthville, Ont Scotch Shorthorns-Three young bulls. One dam Lady Ythan 5th imp; ${ }^{2}$ othereab by Infn
cible, second prize, Toronto, 1904; also heifer
 SHORTHORNS FOR SALE Iam offering for sale my imp. bull, 13
months old, and two red buli calves (one of them is a Golden Dropl ready to Hingh Thomson, Boz 558 , 8t. Marysis, Ont Cedar Vale Stock Farm in offoring lor sale e
 River View Stock Farm-Present offering: $\AA$


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BRITAIN'S BEST BLISTER
 STEVENS' OINTMENT Sa nad in the Rogal Suble guth tho ro



 Erans \& Sons, Lttl. Montral, Que.

JOEN CHAMBERS \& SONS


Holdenby, Northampton, Eng.
 SHIRE HORSE Whioh fom birth aro kept In that natural
condition, noither foran
nor overfooding


 Btation-Althorp Part, If, \& N.W. Ry
GREENGILT HERRD SEORTEORNS

| The oholo breadiog bull (impl) Lord |
| :---: |
| Roseberry, |
| b Broadnooks, |
| now |
| heads |





AN OPPORTUNITY
 Mart, orime juavorite, brod byw. W.


W. G. PETTIT \& SOUS, Freeman, Oni Burlington Jct. Sta. Telephone in honse. SHORTHORN BULLS

 invited. Jas. A. ooombanis, Hellharat station: Comptoin Oo., P. 9 shortione bucts

 Yo.ksinike soway mod bora, veriobs

riohaid gibson, delamare, ont


 WM. D. DYER, Columbus, ONT
8horthorns, Shropshires and Clydesdales
Correspondenoes olicitled. Vlistors welcome
Stations: Brooklin, G.T.R: Myrtle, C. P. R.
Shorthorns and Leicesters ${ }^{- \text {Present }}$ sofer

 Oailodonte stution: Tabcarora P. O
Green Grove Shorthorns and (incolin hyen Herd headed by Royal Prinoe (Imp.) $=38002=1$
w. ©. miluson, Goring P. $\mathbf{O}$.

TROUT GREEK


Bulls in service: Gold Oup (imp.), bred by Wal (Duthie, and Princess Royal

James Smilt
W. D, FLATT,
amer Theostinion 느놉․
 dimit mportor owmond any number ot shop

 Queansion Hoights Shorthorns

 HUDSON USHRR, Queenston, Ont. A. EDWARD MEYER Box 378, Gaolph, Ont. ЗСОTCH 8HORTHORNS

 Two Grand Scotch Bulls

 A. D. McGUGAN, Rodney, Ont belmar paro
SHORTHORNS

 PETEN WHITE, Jn., PEMEnOKE, OWT,

 BOOTOW-TOPPED EMORTHONNS Young stook of both nexese for salo: alrod by

QUESTIONS AND ANSWERS Vetorimary.
enlarged hock eczema.
When two weeks old my colt's hock
me enlarged, and is somewhat ollen yet, but is not lame 2. Mare had eczema, or mud fever;
egs. very itthy. My v.S. cured her, begs she ltroke out again. What will
but she lity
cure her permanently? cure her permanently? D. A.
Ans. 1 . Leave the colt alone until it
is aed, and is there is gtill an enAns. -1 . Leave the colt atone in on-
is weaned, and if there is still an en-
largement apply a blister. largement apply a blister.
2 This cannot be permanently cured
2 an animal that is prediaposed to it in an animal that is predisposed to it
1'urge her with 8 drams aloes and ${ }^{2}$ drams ginger. Follow up with ${ }^{2}$ ozs. Fowler's solution of arsenic, night and morning, every second weok. Dress the
legs with corrosive sublimate, 1 part to legs with corrosive sublimate,
coo of water, twice daily.
WYEs.

Two-year-old draft colt, weighing
lbs., has never become stra:ght on
 2. Horse hurt his eye three weeks ago, eye, which interferes with sight. W. S. Ans.-1. Congenital weakness of the
knees, such as your colt has, cannot be
removed. When in the stable keep him in a box stall, and feed him on the foor
and it is possible they will beorme
stronger. Applications of bliditit lini2. Tents or lotions do mo good. A.
 put a few drops in the eye tividaily
with a droper or a feathe the

## Miscellaneors.

 1. Are the Holsteiliss hard to keep, compared with other cows ?
2. Is it true that too many glass windows in a henhouse are bad?
3. Is it hard to raise bees proftably
near the Pacific coast? I intend to go near the Pacific coast ? I intend to go
to B. C. next spring. I haven't decided what part of it, but I want to try bo
keeping. 4. Do you think a cemented barnyard
would answer well? Would it need much of a foundation?
spoil it ?
5. Is the date of Toronto Exhbition 5. Is yed ? date of Toronto Exhibition
F. L. S. Chateauguay, Que.
Ans. -1 . Being large, the Holsteins require and can utilize a large quantity of
ceed, but they are certainly not hard keeping. From a given amount of foo an ordinary Hoistern wal average cow of any other breed. Provided with
gufficiency of roughage and a proportionste quantity of concenity are about as thrify and will mak as good use of the surplus nutriment a
any breed of cattle we have.
2. It is possible to overdo any grod thing. In is a house enclosed with too Yarge a proportion of glass, it would be
dificult to control the temperature prevent drafts. An excess of glass would
nttract heat. from the sun during the dya, and the temperature would fall very
rapidly and very low at night. The rapialy and very low at night. The
dififculty, of course, would be wery much
lesen as is important that good vexthation be
it rovided. see no reason why anekeepin
3. We hould not be practicable and anrof table
British Columbia. Caine some
in readers from that Province combute to
our "Aplary " department
that experi4. If the site is fairly well drained,
4. there is no reason why a cement floor in
a barnyard should not stand well and give good satisfaction. Dig or plow and
crape out the ground basin-shape, scrape out the ground basin-shape,
making sure that the bottom on which the cement is to be put is firm and hard.
If necessary, fill any low spots with stone and gravel thoroughly rammed
down, then put on a bottom coat of concrote ${ }_{k}$ four inches thick, and a Anishing coat, say an inch and a half. Eight or
ten inches of good gravel alone makes a very satisfactory floor for a barnyard, if
the buildings are eavestroughed as they 5. Yes, bee list in "Gossif" columns, Dysionte Painsin theStomach, Cholort, Cholore Merbus, Cheloya Infentum, Sea Stckmess, Suminar Complaint and on Fluxes of the Bowels.
Has been in use for nearly 60 yeatu mad has noted fittod to ftro rollots

## FLETOHER SHORTHORNS

 and home.
Sod
Botolithini
winher have

 Ridgewood 8tock Farm
scotch shorthorns.

 Shorthorns, Bhirecand IVholmey Elot en. 12 SHORTHORL BULLS 20 Oove and Holtors $\boldsymbol{M}_{0}$ Sinitith, Exeter, Hupon Oo., Ont.
 MAPL EROVE BTOOK FAMM sootom-Tomped SHURTHURIS Prosent offoring: Two otoleo nite-
mantheold bulk, by Captaln Malif

 Wm, Craingar \& Son, Hawhore Horso

 First-elass Storthons roung portione
 J.A Lattimer, Box 16, Woodstpeli, 0 , Boocor of olae SCOTGI SHORTHORIIS
 BHOATHORNE AND EEWKONHDC
 nearly romay to wean. DAVID MmL, stam, ont THOS, MERCER, Boz Maklalo, Ont. OLID MS U H Ho YOUNG SHORTHORNS Ror mot dyat

 WILLOW BANK STOOK FARM Hargo and old-atablishod hard of meow oforios of ither bex suotho and sootol




## Dunn's Hollow Concrete Block Machine



The JAS. STEWART MFG. CO, Ltd., Woodstock, Ont.


London. ~Toronto. ~ Montreal. Winnipe $\$$ - Vancouver-St John.N.B.


OUESTIONS AND ANSWERS Miscollameous.
polled duriam cattle Can registered Polled Durham cattle imported from the U. S. be registered in
Canada? If so, where and what is the
fee? Ans. - There are two classes of Polled Ans.- There are two classes of Polled
Durhams in the United States., The
dass called "double standard " are class called "double standard" are eligible to registry in the American
Shorthorn Herdbook, being bred straight Shorthorn Herdbook, bedng in that book,
from ancestry recorded in and would probably register in the Dominion Shorthorn Herdtook; but it would
be prudent to submit the pedigrees to the Registrar, Mr. H. G. Wade, Departceptance before purchasing, as not all cattle eligtto to the Amprican Herdbook
are eligible to the Dominion book. The
second-class, or single standard. Polled secong-class, or single standard, Polled
Durhams do not trace to importations from Great Britain, and are not eligible the American Shortho.
to any record in Canada.
wanted, an encyclopedia 1. Does mainure lose any strength when
heating 2. How can I destroy small white grubs that work in radishes
3. How should 3. How should ginseng seed be planted,
and when? 4. What
4. What is the best plan to get rid of
5. I have garden peas out in bloom the seed when ripe and grow a second
and for me to sow
6. What should be done with small,
mud-turtle-shaped an eighth of an inch long, on twigs of young plum trees?
7. What would be best to buy to feed to about 500 chickens?
18. What should be sprayed on cows to
repel small fies ? repel small fies? N. H.
Ans, -1 . Yes, whenever manure heats it
loses nitrogen, which loses nitrogen, which is the most ex-
pensive element of fertility.
2. Discontinue growing radishes on 2. Discontinue growing $\begin{gathered}\text { radishes } \\ \text { ground } \\ \text { infested } \\ \text { also } \\ \text { with }\end{gathered}$ the magrot, and
and tlad a rather choose rim land land left in
land ; in
good condition by some previous crop. There is no practical remedy for affected
plants. 3. The seed is dropped in light furrows inch deep; plants about apart and one one or two
inches apart in the rows. The bed is made ready for fall sowing. Fuller
directions on page
6o9, issue April 20th; ture, by M. G. Kains, may be ordered through this office, price 50 cents.
4. Spraying with
bluestone solution. See article in June 22nd issue.
5. It might be worth trying a few; we won't insure the crop.
6. It is probable these insects are the
dark aphids, which are often found the twigs of plum and often fourd on
do much injury by sucking trees, and
do juice. causing the twigs to wicking the juice,
leaves to curl up. Spraying with the thero-
seme emulsion it sene emulsion is the remedy, and the
earlier it is done the better, as atter the
leaves have curled it is difficult to reach
the ingects on the under side
in the insects on the under side of the
leaves. It is possible the insects seen
may be the may be the larver of the Insects seen
which prey upon the aphidg. If soetles, indicate the presence of the aphids. You
should have cut off a couple twigg. forwarded them in a wooden or tigs and
7 . It depends upon markets, age of Chickens, and and the purpose forkets, aghe of
are feeding you are feeding them, whether growing, fat-
tening or laying, For growing or lay-
ing fowl, no one grain can beat wheat wheat and whatever other grains cack- be
purchased reasonably. Some milk is
very beneficial

 ply o! stharp
nround long the natural sup-
arit would hardly go
\& Thene avertised, and a good fy mixtures
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Cossis.
The report of the 20 th annual mecting of the American Holstein-Friesian Associatión, held at Syracuse, N: Y., June 7th, reveals a very healthy condition of
that organization. The report of the treasurer showed the total receipts (including a balance on hand from las
year of $\$ 32,295.06$ ) to be $\$ 51,775.29$ and the disbursements of the yeur $\$ 13$, 673.69, leaving a balance on hand of
$\$ 88,079.60$, and a net gain for 1905 of $\$ 88,079.60$, and a net gain for 1905 or
$\$ 5,788.54$. Registrations for the year onding May 15th, 1905, were: Cows, 6,537; bulls, 3,226; transfer certificates
issued, 10,505 . The total number of cattle registered is 134,975 , of which
91,000 are cows and 43000 bulls. Mr 91,000 are cows and 43,000 bulls. Mr
Malcolm H. Gardner, Darien, Wisconsin, was elected Houghton
secretary
trait
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She
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Wo
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fol
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age
trait appears on another page in this
issue, issue, will be recognized as a splendid
type of a vigorous-working dairy cow She made the best all-round record of
all the Jerseys in the 120 days' test in the dairy cow demonstration at the World's Fair at St. Louis, and the high-
est record of net profit or difference be tween value of product and cost of feed
of any cow of any breed in the test, her official record for the 100 days being as follows: Milk, $\approx, 802.7$ lbs.; fat. 280.1
lbs.; estimated butter, 330.03 lbs. Aver agea per day: Milk, 48.35 lbs.; est
mated butter, 2.75 lbs mated butter, 2.75 lbs She was bre
by Moore \& Gilbert, Muncie, Indiana
owned by estate of owned by estate of W. S. Ladd, Fort
land, Oregon; sired by Ida's Rioter
St. Lambent, St. Lambert 9th 41010, by Ida's Rioter
of St. Lambert 13656, dam' Cicero's Chemical Test 101087, by Cicero's Tor mentor, by Tormentor 3533 .
 and it is expected there will he a C.
P. R. station near the farm, as the
Guelph and Goderich Guelph and Goderich branch is being
constructed near there now. This herd
is is being gradually increased by the en
terprising proprietor, Mr. Lemuel B.
Powill, Wallenstein P . O., who thas not made the mistake that many make, viz.
buying a fancy pedigree without much
an animal to back it up, but his prac preference rather than pedigree, but it plainly bred. The stock bull is a worthy
son of Mayfly (imp.), a Toronto first prize winner, his dam being by a son
Imp. Royal Sailor, one of the best sire
that ever crossed the water. The lul referred to, Captain Mayly $2 n$
$=49532=$ a red two-year-old, is bot
deep and lengthy, with an excellonin front. He was considered good enough
to win first at Filmira last fall against
keen competition, and would be a credit to any show-ring, were he fitted, and
what is better still, he (ransmits his hear witness among which hre a palve
of 9 -months-old bulls rellows, with plenty of masculine char
acter, such as, if we mistake not, wi males are made up of Lilys, Matchlesses Ked Ladys and Floras, perhaps th
choice among them being Roan Daisy, rising 4 years, sire Red Duke $=31789$
dam Missie B., by Tupper. This is choice large cow, with a good cenform:
tion : in short. she would be a valuall additica to many a show herd, with
little extra fitting. Mr. Powell will dit pose of any that he has, and "ill moe
visitors at Flmira by appointmont, tak his herd. and deem it a pleasure. whemh

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4. 1906. 
1. The proof of the pudding will be unsure airs.
I bought an Ayrabire bull in June,
2. He was then 18 months old, and good size for age. I let hime soive 16 cows, and he only left 2 calves. Thi
spring $I$ let him serve 8 cowi, and twe spring I let him serve 8 cows, and Wive Whe you advise me to get rid of him? N. N .
Ans.--It frequently happens that * young bull taken into new surrounding
and aubjected to different feoding and and subjected to difrerent seeding and
treatmont is not sure for the desit for months. We should not be disposed to discard him on the starcentage of sows setiled thit spring so lar is a considerable improve ment, but if after a fair trial his record does not improve we
beef and get another.
WATBRPROOPINE codyon - prgesrpme Farmer," York Co., asks而 to mpake it waterproof and yet not erack, peel of, nor rot the cotton? I intend using what is the beest way to 2. What is the best way to keep ham
end shoulders of pork through the sum mer, that have been salted and after-
ward dried? ward dried?
Ans.-1. To every 8 pints of bolling
water add 2 ozs. yellow soap water add 2 ozs. yellow soap. When
dissolved, stir in 1 quart boiled ofl, and dissoived, stir in 1 quart boiled oil, ane
when cold add $\&$ pint gold sizo. Th latter is a drier, and known as brown
Japan. A hardware man tells us he has sold raw on for the purpose, and has sold raw on for the purpose, and
that the canvas ta simply well painted with that and nothing else.
3. Sow the hams and
4. Sew the hams and shoulders up in
covers made of factory cotton, ond heng in any cool, airy place.
patality in ples.
Two sows, farrowed a week afo, had
no millk. Piga seemed smart for firnt day, made a secreeching sound, and dioc in two or three dayl. Sows did no care for their young. Sowe were on parture in orchard, where nothing
turbed them, and were fed one gallon tolty crushed onta and bariey fith ittle milk. I put three rings Into the ose or each sow three weeks previou ing affected their young? What thing the cause of sowe not having milk whe Hberally fed ? A. s. F. ing the sows when so have risked ripg pregnancy, but if they went their sil time and the pigs were smart, whon borm lect. If the sows had not sumpelent eercise in the earlier months of gentation
the pigs would be likely to lack vital ity or the ambition to hustle for nour is
grownt; or if their wide toeth wers irritated the sows in the metempt to suck, and caused them to delert tho
young. In such case these littlo tuol
should be broken of with inter is difincult to account for such condr-

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