## PAGES

MISSING

Vol. XXXIII.
LONDON, ONT., AND WINNIPEG, MAN, JUNE 15, 1898.
cater to that trade, and Oanada is peculiarly
well situated for taking advantage of the increasing trade in this line which seems bound to come our way. United States flockmasters look to Canada for rams, knowing from experience that sheep bred and raised on our soin have the rey throught and quality to improve the stock they are brought for fresh blood. If we excel in any one class of tock more than another it is in our sheep, as was amply evidenced by the great success of our flocks at the World's Fair in 1803, at the Madison Garden Show, and the magnificent displays made at our leading exhibitions. While it is true that the quality of our best breeding locks has boon well maintained, thanks to freeders wo without adventitious aid from outside sources, and notwithstanding the fact that sheep have been systematically ignored at the Dominion Experi mental Farms, while 'kindred industries have been boomed by Government commissioners and aided by special favors at the public expense, yet it in also true that sheep are beligg that the aggregate large proportion of the Dominion has been steadily number of sheep in lien years or more, a fact which, as stated in the first sentence of this article, is unaccountable when all the good things which can be truthfully said in their favor are enumer ated. If any words we have written shail lead to a more general recognition and aetive appreciation of the claims of this class of stock by our farmers
we shall feel that we have done good work in we shall feel that wo har penning them, being farming is within the reach of pror paople.
our
The Elevator Monopoly - Reply by Dr, Rutherford, M. P.
To the Editor FARMER's ADVOATE: article on the Elevator Monopoly, which is somewhat misleading as to the poir efforts to abolish this grievance. Western Liberal members, with one no-
table exception, are unfortunate, inasmuch as, under table exception, are unfortunate, inasmuch as, under existing journatistic circumstances, they have no
widely circulating medium through which to inwidely circulating medim of what they are doing or endeavoring to do on their behalf. As a consequence, they suffer from colstant mise vainglory tion, due sometimes sometimes to the indiscriminating antagonism of writers politically opposed to them. I trust you
will allow me to explain to your readers as briefly will allow me to explain to your readers as briefly as possibe elevator grievance, shortly stated, lifes in
tion. The the fact that the farmer, who should unquestionably have the priviege of he pleases, is at present compelled to pass it through eleeators which may or may not be honestly and fairly cond at the mercy
result, he is largely in the hands and of the elevator owners, who, by the recent union of the eir forces, have deprived him of the competition which formerly to some extent served as
protection to his interests. Different men hold dif. protection to his and the Western members, while all resirous of remedying the existing state of affairs, were not of one mind as to the best manner of bringing about the needed re the conclusion that mysen,
there no need for new legislation, as I con-
sidered that the case was already fully provided for sidered that the case was aiready fuly provided way Act, which you might publish for the benefit Way Act of your readers as are not familiar with it, Acting on this belief, and after consultation with several high legal authorities, 1 represented
Government the desirability of compolling the Government companies to live up to the existing law
railway compa assurances that the matter would and obtained assurances that the I presented my receive as above to the public in the Manitoba
views as
Liberal of February 24th, and to the House of Commons as forcibly as I could on March 14th, in
seconding Mr. Jameson's ably advocated resolutio seconding Mr. Jameson's ably advocated resolution
in favor of the establishment of a Railway Com
mission. Meanwhile, however, Dr. Douglas had
introduced his Bill to regulate the transit of grain, mission.
introduced his Bill to regulate the transit of grain,
and after perusing it carefully I came to the conand after perusing it carefully I came to the con-
clusion that as a supplement to
Gene section of the clusion that as a supplement to the section of the strengthen the position of the producer, and
therefore gave it an ungrudging and hearty support, The Bell was read a second time on March
17th, was referred to the Railway Oommittee, and came up for discussion on April 30th. It was strongy opposed by leading oonservat ve me Olars
and by the elevator. ownere, and lso by Judge
on behaif of the C. P. R., and occupied the Coman behalf of the C. P. R., and occupied the Com-
mittee for a whole session, without any progress mittee for a whole session, without any progress
being made. After the Oommittee adjourned, Dr, Douglas was informed by the railway people that
they had no interest in the matter save that of getting the grain loaded quickly, so as to enable season between harvest and the close of navigation. Dr. Douglas, on this understanding, arreed to cerundertook to draft a new clause to be submitted ere the next meeting of the Committee. When
the Committee met, however, on Mey Frd, the aewly drafted clause was hane, dreading the risk of as his Bil was called, and he, areading the risk of
losing the chance of getting his Bill trough this
year, and taking it for granted that the new section year, and taking it for granted that the new section
was drawn in accordance with his verbal agreement; explained it on that basis, and asked that the
ment be reported to the House. Having the most im ment, explained to the House. Having the most im-
Bill be reported
plicit conflence, as has every decent man who plicit confldence, as has every decent man who
knows him, in Dr, Douglas' integrity and honesty knows him, in Dr. Dougias integrisy andious to ad.
of purpose, the Western members and
vance the Bill a stage endorsed his position, and no amendment being orered, n the new clause was
by a unanimous vote. When
printed, however, Dr. Douglas discovered that it printed, however, Dr. Douglas discovered that it
was not at all what he expected it to bee and it was promptly repudiated by him and by all who were Farmers' Institute and independent grain dealere Farmers asiogates, who, as far as we could learn, represented
dememselves and their own interests only, had absothemselves and their own interests only, had abso-
lutely nothing to do with our action in this mattor. As it then appeared too late in the session to inAs ince another bill, it was resolved by the repre. sentatives from the West to follow the pian the Government to compel the railway companies to live up to the provisions of the existing law. We accord
ingly drew up the following memorial, which wa ngly drew up the following memoria, which was
placed in the hands of the Prime Minister by Dr.
Douglas himself: Douglas himself:
ness it has been found impossible to enact buchegislation during the present session as will regrain under which the producers of Manitobe and
gre the Northwest Territories at present labor; there
fore, we, the undersigned members of Parliament, request you to take such steps under the Railway Act as will secure to the producers the
grain under the following conditions
$\qquad$ his vehicles by means of a suitable plattorm or otherwise, and shall be allowed reasonable time to do so. Where flat warehouses now exist or may hereafter be erected, grain may be shipped through
the same and no discrimination shal be made against such warehouses in favor of standard elevators. Where grain is shipped directly from
vehici. Wos no charge shall be made by any other elevator owner or other person for such privilege,
and where grain is shipped through flat warehouses no person other than the ownerg of the warehouse
shall be entitiled to make any charge for said privishall be entitiled to make any charge for aaid privi-
lege. ${ }^{\text {3 }}$. Where the supply of cars is insufficient, such cars as are furnished shall be divided equally
among the applicants until each bas received one car, and after that the cars shall be distributed in ${ }^{\text {" }}$ (Signed)

The memorial which you publish did not
omanate from the Western members, and you are entirely in error when you state that it was pre-
pared or presented to the Government by them. A
280 THE FARMER'S ADVOCATE

## fi. Farmibrs Apvocate

 asid Eloun Mionemy:
 coraftip percuan of this lattor document will rorea promote form It Am wfo in prealicting the our farmere next fat will lood their grain in an
 mhich the hringing pauc the ing the best possible points of the
1 cennot olose without a word regarding the mivereble attampt made in some me quaterist toco onvey
 charge wien nover made. The peoplo of East tiver Honeot, capabie and strong in his deaire to trusted by every man at Ottawa not blinded by bhat most contemptible of human woaknesees, seif
sloritiontion. If he erreed regarding the amen ment
 obtain, this, 日esion, a remedy for the grievance An time pasees Weitern people will doubtloes learn their confidionoe and estoem. There is an old Scotch proberb which fits fairiv, and squarelly, the present case - "Mnckle squaelin' for little woo', ae jug ged by what we do and not by. the noise we
Yours fnithfully, House of Commons, ott J. G. RUTBerford.

STOCK.
Our Scottish Letter.

A Pioneer Ayrshire Breeder's Demise.- Fanciers ith the name of Mr. Alexander Allan, formerly He was the oldest of the generation of Ayrahire | breaders that now it, but someone oflae is now |
| :--- |
| holder of the promier place. Mr. Allan died on 15 h | May, in the seventy-sixth year of his age. He was great favorite with all classes of the community, and on the the foreign trade in, Ayrshire He He wa entruated with many commissions and selected many animale

for foreign buyers. As atypical Ayrshire farmer, orrowd, cautious, painstaking and industrious, Mr. shilan had few equals, and none surviver oxactily of
his wnat type. His sons, Mr. A. Allan ©roftjane, his own type. His sors, Mr. A. Y. Allan, Croftjanee
Thornhill, and Mr. James Allan, Blackston, Dalry are well-known and popular farmers, and both are recognized as admirable judges of Ay shire stack.
Ayrshires in Scotland.-R oference to Mr

thit yer ifand that the breeders and judges of
 Wive the bhow cont of the dairy cow. Complainte - commertor tha cow of the ohowand Dirry
 thomivi racy for minl, well-planted teate and

 It ighthing epeec in the small hours of the mornaris freat nulicance, and the femalo part of the
 not an td Yocte of the fancy animal, always stated
What coula be exide for it with moderation and preone of the good thinge of which one could have too many. This peaton, more than in any preceaiog, - rommon to bringing out what was wancod by diniry grmers, peedifl prizec have in recent years beend been won by the cral instances theee prilew yard. Thit happened at Kilmarnock, AyF, Glagow, Dunld, eecured Nolite IV, of Herperthen -aplendid cow, of great tocele and just the kind of animal everyone wante and Gleqgow wey Lady Flora of Burnhousee, bred Galletone and on Mre of William Howie, Burnhouses, Galeton, end one of the grandest cows of the Ayrpated, and it in eremarkable fact that sho has not only swept everything before her for two years in urcceaion, but therr is also a strong probebiully invincible. Itis doubtral if there has ever been ox hibited a bettar example of the Ayrahire dairy cow. We also bred in AMmpite, and is owned by Mr. John Banchop, Auchentulieb, Alexandria. She is A
 Moasra. R. \& J. Mcalliber, Rothosay, and in some
respecte Bhe has no superior. Sheis as good a dairy
 and er tordy Fitan, were all bred on Niadidsosog.
sire
This is one of the bett herds of Ayrahire cattle in
 country at present in a very hopeful condition. Tuberoulosis as a subject of agricultural discussion is ever with us, and if Government inquiries
nd Royal Commiesions could have cleared it away, we should have been quit of it long ago. rom authorities under pariiamentary sanction, of far as the oliminination of the diseasis concerned. The labors of these Commissions have not, howreli, arieirg from tuberculonis; they have made us amiliar with the true nature of the dibease; and
they have shown that while the number of tuber culous cattie is very large, the number of such affectod in the under is by bo means fitted to cause unnecessary alarm. All the men of science are ap. oased there is no risk attending the use of milk from tuberculous cows, and even when the udder
is the seat of the disease, the boiling of the milk is the seat of tisk of disease, Dhe Dairy cows are more subject to the disorder than others, but even in that they will not be predisposed to the disease as graph are not eifrred to in the preceding paragraph art
like ely subjecte for the disease, and alogether there is every reason to expect an increase in the number
of healthy dairy cattle in this country. The dis. consions on tuberculosis have revealed a curious
illuatration of the provicialism which is oo marked illustration of the provincialism which is so marked
Q characteristic of the British mind. In spite of the evidence collected by various independent wit neese8 regaraing the success of Bang's treatment
and method in Denmark, an extraordinary number of men in this country refuse to believe in the suclisten even when told that in this country a similar succoes has attended the Castlecraig experiments
of Sir Thomas Gibson-Carmichael. This provincial. of Sir homas
ism is sometimes an advantage, but at other times it conts for nothing, and in its relation to experi-
mental work it is calculated to do great injury to mental wor
agriculture
Hact
Hackneys Gaining Popularity.-Hackneys have
been in great favor during the past few weekg in this country. We have had several sales by auction, and prices are keeping up and going up. Mr:
Alexander Morton, of Gowanbank, Darvel, M , the
 a change has come over to country, and he haz
now ane nember of companion and com
petitors. During the past few years all of the

Hacknoy breeders have devoted their attention breading carriage horsees, and this has proved Fd
cided advantage to the entire Hinctnoy inter. The Hacknoy which was too amall for a carriy
 recognizing that it ion harnood horse or nothty At hip eale in the beginning of May, Mr. Mott
this year sold 54 hebi, of oll gese and both sexee. an average of scric 19. apiece. A Hackney gelt
named Grenadier was polat for 200 ger
 colored animal and a phenomenal mover. average price of four peadigreed Hackney. brô
anaree was $£ 118$ 2s. 6 a , and 30 harness horse mareveraese of $\& 8211$, Bd . An ther very good Hic ney stua in sootland is that of IMr. Willit
Scott, Giffoot, Carluke. He had a sale one ily Scoot, Gilfoot Carlike., He had a sale one we
earlier than Mr. Morton', when ho sold for earlier than Mr. Morton's, when ho sold fourto
animals at an average of 622 . each. Of tho anime majority were driving hories and three.
them came to the top, at the Ayt Show; whit

 The late Mr .
of the best j otud west one of the esmallest in the country, bu was known to be one of the most gelect, and whe on account of hiv lamontid doal ieserve, everybi know there would be a good sale. A threpy

 Wrere in the sile six brood marres with foals, tio yearling fillies, and four yearling colto, as well one thre-year-old mare, one two-year-old filly,
one harneese mare. It was a wonderfal sale, one hamrieses given good blood, careffil selection, an unreserved asie, Hacknoys will make aimo
any price in Scotland. Even the canny Abert any price in Scotiand. Fren the canny Abordo
ians have been trying to breed Hackneys sucosesful sale of ponies and Hackneys took pit succoseful salo of ponion
there not so long ago.

Exhibitions for $\mathbf{1 8 0 8}$
Tran-Mississippi, Omaha Winnipeg Industrial....
Portage la Prairie, Man Portage 1 la
Brandon
Cor Stanstead, Rock Island, Qua Toledo Tri State. Now York, Syracu Minnesota, Hamlin Eastern, Sherbrooke London Western. Indiana, Indian apolis.
Presocti, Vankleek
Hiil New Brunswiok, st. Joh Bay of Quinte., Beileville.
Northern Waikerton Northern, Walker
Ottawa Contral Wisconsin, Crilwauk Northonsin, Collingwooed Peninsular, Chatham
Proscott, Prescont. rescott, H rescott.
Lanark, South Perth
Llinis Llinoinis, Spring field
Peel, Brampton
 Centre Brace, Paisloy.te
Corth western, Goderich.
 Oxlord K Kempwille....
EIgin West. Wallaceto Ontario ond Durlaca, Whitby
Poterboro, West Peterboro. Poterbor,, West Peterboro.
St.
Soous, St. Louis, Mo..
Norfok, Tilsonburg Norotouk, Thilsonourg, Lourg.
Norfolk, Simoe Norfokk, Simeoe
Wroobridge

## Whadridge Ontario Fat Stock Show, Brantion

ntario rat stock Show, Brantlord..... Not. 18 and 19.
Notre.-If Secretaries 30 to Ded INork. - If Seeretaries of Fair Boards will. send us dates
of their shows we will include them in the lista of suceed


How to Lead a Wild Cow.
"A few years ago," writes a reader of the
FAAMER'S ADDOCATE," "I purchaed a highly mather's ADVOCATE, SI purchased a highly
fortled Jersey heifer. She was sent from haer former owner by train, and when she arrived ot
our station she was so wild and excited we could not untie her in the car. In fact, we knew if we
did ture did turn her loose she would go over everything
jumpable. So we threw a blanket over her head
and untied ho and untied her, then tied an old dacck over ber eyees
so that she could not see. This so completely subso that she could not see. This so completely sub-
dued her that she walked home some four mile,
tied behind wish In Ind a few yagon as quietly qua anyone could
her purchaser, allhoug was again sold, and cor purchaser, allhough confident he could lead any
cow, could not eqet her home until he had taken my
advice in blin to advice in blindfolding hor with an he had taken my
she again led away quite peaceably," sack, when J. © M Murray, Brandon Hills, Man:- " I would

The Bath and West of England Show.
This annual meeting took place this year in tho old toun of Candiff. The sheep we
 Tongg wool and Shrophire breeds.
THill, Mr. R. Swn mick being the To Of ford County show, although the seond ram from Mr. Me Cure as above, and yearling ewes only one moderate
 son incorases the demand for there most disappointing, both in regard to


 usefan sheop whave expected them to be at this important
ane would h Rothsobild took the ram prize, and two out
ano of thre on the ram lambs, but these latter awards were
of thinl licky ones, for a for and away better pen of $M$.



 tho, owe clase Mr. P. L. Mills, Mrs. M. Marrs, and Mr. A. A. Thaner. Reen heam led by Mr. A. Bradburnes pen that to from sir Jamee Blyth's flock. Shropenires were
 dinged pen, but not of the
quanlity and handlo that Brad
burrees pen had. O prord burnes , which wera weak lot,
 arrong foree, was $t$
ride for by one
ind



Rearing Young Bulls.
 took the breed championship with him. We did
not like his color nor the way he stood on hia legg.
Nesers C Hobse it Son came second with a better Messrs, O. Hobbs \& Son came seond with a better
sheep in respect to type and color, but bit weik a very taking sheep. Ram lambe a useful clase ; Meserf W. Arreell and A. H. Wilsden securing the wards. Shearling ewee were headed by a grand
pen. Mr. J. C. Eady most deservedly secured therewith the championship of the yard, and his econd pen, equally good as the former, were most xcillen. Ewe lam the first awarde were not of 8o good a style or quality as Mr. A. H. Stilgoo's,
which took second place. Hampehira Do n the ram second place. Hampahire Downs were, the chief honors, not only in these clasees, but in everal others, went to Earl Oarnarvon, whoee flock as rapidy puishing its way to to fore. Both Ar.
FFower and Mr. A. de Mornay, who won frot in the shearling ewe class, were well to the fore, ex-
hibiting first-clase specimens of this breed. Southdowns were present in strong force, and the hampionship of the breed wocred frst premium in of the pen of three who secured irrst premium in
their class, from that woll the Pagham Harbur Co., Seleg England. This, ram lamb, and, indeed, the whole olitris frock' character, such as fow, if any, of the flocks could produce. Earl Cadogan secured second for ahoaring rams and the eward or hearing ew table on
pens will probably in future shows turn thich

we are enshbled to say that the 33 of an acre of rape saved 1,062 dounds of grain, or
be worth 3.318 pounds of grain.
In another trial with two lots of 19 in each, con ductod in the same manner, and fed the same rations for seven weeke, the rape lot ate 2,220
punds of maize, 1,109 pounds of shorts, .8 of an pounds of maize, 1,109 pounds or shorts, $\begin{aligned} & 6 \text { or } \\ & \text { acre of rape, and gained } 1,008 \text { pounds. The penned }\end{aligned}$
 shortse and giannod 1 ,orf pounce The gan is prac-
tically the same in this inatance aleo, so that it mat tically the same in this instance aleo, so that it may
be said that the 610 of an nare of rape enved 8882 be saids or maize and 44 pounde of ehorta or that
pound pona arre of rape is worth 2,217 pounde of grain
The average of the two trials indicatee that an acre
 of rape isworth pigs.
The fatwo trin
The The two trialis that have been mado indicate that
this crop is likely to prove as valuable for this crop is likely to prove hervaluable for swine
feeding as it is for shoep. There is leas ritin fod ing it to awine, as they do not bloat on it nor coour if Yed properily It tives every promioe of proving


 other derangemente, and thero is no doubt but that prould add to thoir thrift and ourgor, and theresy lessen the loseses that ooccur in these monting. Kafp she hot summer monthe, boocheno of the succulvence
and the rolish of swine or tit, and for the and the rolish of swine for it, and for thene renone
wo would urge our swine breders and foeder to we would urge our wine trpoders and ver sen, nomd hasese se have have
te leading win at Cardiff

 and yoarlingent. Ram were lamber
hat the least said the pel Dorsmet Horns were firirly wel chown, the ram lamber of Mr
W . R, Hower being firat Wacond , Mowd being first an bost, most level were and event pene
of this broed seen ont of this broed asend out for ponse
years. This brreder was Successfil in the ram classses, the lead in yearling owes.
Pig.
Berkshires were present in in good numbers, and,
generally speaking, their ity and merit was of yourz





Swanwiok, also coming in for
notioce. Large Whites were notione in Large whites were
small in number but good in qualit, the premiums being
dividod between Sir $G$ Greenall and deessrs. S. Spencer




Oxfordshire (Engiand) County Show. This fixture is one of the most inportant of the principal sheep exhibitiors, is the starting point of | what you in your country, term the "fair oircuit" |
| :--- |
| This meeting is the one at which the Oxford Down | sheep show out in greatest number, and doubtless


 Which there were few really first-lialse shows shepp.
rom Mr. A. Bradburn, G. L. Foster-Harter and Mr 4. Cooper were fully typical of their breed. Cots.
wolds were but small in numbers, but the quality was good, particularly in the case of Mr. R. Swan-
wick
rame wick's ram, who she gurd. This shatep and his flock-
ail breeds in the matees secured all the first prizes for their owner

Rape for Pigs.
At various timess, says an American bulletin, we have tried feeding pigs on rape, and it has always been satisfactory, though it would somet thes
necessary to restrict the other feed that the pigs necessary
were reciving until they became accuainted with
the taste of the plant. We have made two experimente, including, in all, fifty-eight pigs, with the
deflite object of determining the feeding value of
 rape perned and fed eoked maize and also shortts
Were
in a slop. The grain was fed in the proportion of a slop. he graind wase part ahorts by weikht.
two parts maize and one
The other lot had in addition to this graina limited piece of rape. The pigs were fed so as to secure a
satiffactory gin in both initances, but the amount of grain fed to those on rape was less than that given
hee penned pigs, that they might eat the rape more
 as the others, In thatirst trial the ten nigig on rape
ate in 76 days 1,386 pounds of maize, ©exo pounds of ater
shorts. .3. of an acre of rape, and gained 853
pounde. The other lot penned ate 2006 pound of
 during the nighte through the to turnmer, ound
 him to be led about with the hantire, and will
suredly in fact, overy bull calf should bo thoroughly halter-
broke broken beforo a ring is put in his noese.
cow, for four or five monthe, and afterwarde iven
 good fodder, he will be fit to serve alimited number
of heifers and small cows at twelve to thirto montho old. He will have plenty of time during the following summer to pick up his strength and
vigor again, and having more framowork and vigor again, and having more framework and
strength. will be it for general service throughout
 mistake to turn a young bull out with the herr. Hur:
ing his first or even second service enmerer ing his first or even second service whine seme of
will not only do himeolf injury, but while the females will
liahle to be mised
liable to be mised.
During the time of service it is recommended by E. During the time of service it io recommended stock young buil's food should be slighty on the increase, nd of somewhat more nitrogenous componition
Musty hay should be avolided, and liberal feeding of
 savory cut hay, will fortify
tax of growth and service.
 should be without it."

## THE FARMER'S ADVOCATE.

June 15, 1808

The: Proparation of Dalry Cattlo tor the
CContinued froum youras, mis.
Nove the I hove tolla you page 258.) I consider the principe thinsi to do I Iol what I congider the his Do Dr wit until a ter deye bofore the Second, -Dorre hurty ; you aro motet sure to ovordo the mettor send ho your etock reach theif

 You hiavo undona moro in inday, purisp, than you It if vereth, hoorting toed tho blood, mateee grease in. steve of bono and muocoe, and on the firat extra ino will will lity cut grasedrying in the sun. 0 couve to aro talking about dairy atatile Ido no
 ho gitith:-Dovr tey to foed a deiry cow to a point where she ohow ahe il getting morn ofeed than phine judge Fill EY the it no good ea a proittable dairy
 bught novo won a prite. You know ajudge hes no he muit tand them so ho finde them in the ring antirycon poirg or ande aboutit in really good gnorentil put on to fit her, as you think, gets sen riby you gin ree erner ag you can see the cow (with know rou hive the bet cow for milk, and you Pertive in refily he has, but it io your own fant You the ding thist in not no naturaily, and you must tek the convequencee. more mistakien notion than
 Stoth - bogr weelit until you get on the car to go to the fare to hegin poirush; ao these things eil

 When your cow io ft you must remember she son ditive a good dariry cow is to change. Let a boy her ylold of milk accoraingly. So don't do any Seventh-Dor'r wat unth the last day in the of two before and a, reeny before they go in, barry finced with water, and eeo the they are in, tarting: give yoursaif or men plenty of time; see they have overything done to ensure their asety and to avold exitement Tip the engineer if necese
Fighth. -Dos'T wait until you get to the fair
Fin grounda to know where your stails are. Write the eocotarys and boe, or have ane ane al read bodded and our time in in anlosinge, lot the trainmen swear nd the supprincenden, leeen cool. It is enough to unite a man lose his reifion to have spent six reeke getting his cattil fit, and then when he gete them to the grounds have to tie them to a fence not ready. There is no excuse on the part of a or the most doilicate piece or machinery, need. more hey have been brought up to the top notch some armers have had such disheartening results that theny say: "It don't pay to fit our cattle; we take hem up out or pasturur hand taped our but we prefer to lose a prize rather than one of our best cowe", the Ninth, - DoN'T use keroesene oil to make the
cattie'd hair laymooth; it makes a botch job of tit;
a handul of olloke meal in their feed daily for a week or two before, and a soft brush to remove the dirt, will do the business to perfection. to oft, but it
Some of this is not exatly how amounts to the same thing if it tells you how to

Begin watering your cattle at home in a pail, or, to-
geither with the oxcitement of the journey, they
 cow has lost a prize by rofoung to drink from a her lite. Sho goen into the oring all "gaunted up. first thing: "No barrel, no capacity, poor foeder,"
saty the judge or perhaps he tnow the cow will it inows ahe ige good one-but he cannot help it lot himooir beegin to make erocuse for this cow or
that ;-il he did, where would he end; so out she goes.:

## FARM.

## Haying Pointers.


Sir, - Yop have an excellent article in June let iegue re cutting and curing clover, and only favor here io verr similar to what you recommend.
Would suegreat hower. that all hay be cocked on dey of butgrang (provided it is cut onj drying day) to value. As a rule, on the third day, weatie being favorable, hay is sufficiently oweated and
ready for mow. Here we cut and always cock on same dayy ICertinly agree with you re feeding clover hay
to horsee; and feel exceedingly pleaeed to have my viem backed by your lucid arg gumentin its favor. oe properily cured as you suggest, only care must bo taken not to make large cocke. Mr . Ridtor, keep us posted up in our " good and Hic. as tor, zep ume tod upin our igood and

Norfolk Oo., Ont. Mansger Annandale Farm.
Haymaking in Nova Scotia.
In curing clover my method has been to strike noe irsat setuled weather in July, or as soon as the afternoon and ovening, and, as clover with us is over lees than three tons per acre, we can usually ho morning. We do not tooch it again till about orur oclock the next day, when we turn the green
side to the dow and leave it in that shape for the cecond night. In the morning we open out a little more thorooghly, shaking the green bunches well
out, and towards night, while the hay is good and ou an ore any dew hilis, we cock suagiy. clover, or two reasons. First-I have never ye
lound a horee rake that would leave a good crop found o horese rake that would leave a good crop of
olover in as good form for cooking as it is in the
 the rain much bettrer when cocked out of swatin
than out of windrow. Weather being favorable, el let it stand in cock for. and couple overas; after ow hourse 'sun, and start teame hauling to barn One of the disadarantages of this method is, we
have
 ocks, will turn quite a einower or rain. We cut it in vening, or in morning after the dew is pretty well vening, or ium overning aut noon, start rake about hrree o'clock, cock snugly for over night, turning
out the next morning ; it will be ready for the barn bout noon, with very; little turning, provided the veather is favorable. Of course, no one can lay own cast-iron rules for haymaking in our Nova
dootia dimate, and it is often a question of letting Sayy spoil outaoors or putting it in the barn to
hat poill and of two evils we try to choose the leasi.
Colchester Co., N. N.
C. ARCHBALD.

Cut the Clover Early
If possibe elet the farm work be well forward in dis monith of June so that haymaking may comnrat such fields as may mave have in them any noxious veeds that are liable to ripen early and thus to lover reed from the se seond cropt it is well to cut he first crop early. If the purpose is to plow down he covor sod in any field as a preparation for fall
heat it should be cut aerly so that advantage may be taken of any wet spells that may come to Keep the teams going turning under the eod, whith
should be immediately rolled and harrowed, the harrowing to be re repated frequently, especially
fter each rain, to soidify the ground and to retain fter each rain, to soidify the ground and to retain. aration for fall wheat, and no matter how dry the nonth of Ausust and September may be the land
ill contain sumfient moisture to give the wheat a oood stait when sown and to keep it going on. sarly sum for a a day or two and allowed to stand in
and
and cock for three or four days, is weather permits,
makes the very best and most nutritious hay i nd meadows is so much more abundant than on thos cut later that it makes a wonderful aifference in the amount
dry season.

Harvesting Clover.
othe Eaitor Farama SIR, -Olover, next to silage, is the most valu.
able crop for stock that a farmer can grow, and therefore should have the greateast care. Turnip
 our daye neglect-theil a shower of rain on th anower at a certain atage of its curing would deterio
clover rate the value of the crop from 40 to 60 per cent. olover also, ike silag. and every succesefur siloiot knows that the crop in.
areases in value up to the glazing stage, after which aererg day allowed to pass is a decrease in the pala
tabilt of the silage. The clover plant follows the tabme IMes
duce its Kin duce its kind, and every growth to the time the eeed is ready to mature has the one object. Whe the leaves and stems and they becin to decay; th leaves dry up and fall off and the atalke become woody. The proper time to cut clover, therefore is when the plant is in full bloom and the eeed pods
formed ; this takes place before the heads Lurn Tormed
bron
The
There are different mothods of harvesting the crop, and every farmer a aimos object so know get it in the barn ary, with as much of the leave on as possibe, and with as green an appearance ai boeached appearance, with mooti of the leaves left on the gropnd, it would require the farmer to fur niigh groen goggles to make the cattle take to it The following appears to me to be a good method
with variatione to suit the weather : Commenice to cut after four oclock in the afternoon and cut
until nine in the morning (if necossary). The until nine in the morning (if neceosary). The ojene th wirt to any extent beofore the dew famle
mand therefore is not affected by the dew. If the
and andlowing day is warm, with a good breeze, afte noon put on the tadder or turn with forks, B
five odock it will be sufficiently dry to when it is allowed to sweat 60 hours or thereabout Turn it out gently (ose as not to shate or the leavee) in the foronoon, and draw after dinner
Keep a certain amount cut ahead so as to keep the hands going, never catting more than the strength
of the force available can, handle. It is advieable to put on a bout a gallon of salt, to the load; it makes the hay more palat.
it to to tain its green color.
If properily cured, and properly fed, it is better food for horses than timothy, as it contains more
food elements. The mistake with most hore foedere is that they imagine a horse ehould eat al the time he is in the stable, and if they go in an eee the manger emptry they immediately 1 nil it up.
The clover if propery
cured, is so palatable that The elover, if properly cured, is so palatable the
they would eat too much of it. If they would fee \#f hat they would eat up clean in sayy an hour, and if any is leit remove it until feeding time again
they would never be troubled with they would never be troubled with colic. If they
feed musty clover, and all thet wil eat of ihit
will likely affect the horses' wind. If fed woith will likely affect the horses' wind, If fed wit
judgment it is superior to timothy hay.
Ontario County, Ont.
J. E. G.

Clover Cutting and Curing.
There has been a great deal said about clover
 would thint, to convince the most sceptical. Still,
some of some of us farmers do stick to the dear ola timothy.
Perhaps if wo would sit down and think how dear it is we might think less of it and more of clover.
This old world of ours must be moving, and not This old world of ours must te moving, and not
few wide-awake agriculturists are helping it along
When
 the ideas expressed now with those I remember
hearing when a boy-which is not so long agowonder whether it it the time that has changed o idea that timothy was the only hay fit for a hore to eat ; that he must have all of it he could ronl into
himeif, and oats too or he could do no work that cliover minght do vory well for the cows and oheep,
but keep it away from the horses and as for hogen but keep it away frym the horsees, awd as for hoge
and hene, $I$ don't think such a preposterous notion and hene, I don't think such a preposterous notion
ever
 "Earl. cut, well-cured clover is undoubtedy the
beasa ail round foder for either horses, catile or sheep, and even hoger and hens are kept in a healthy ana thriving condition by the use of clover as a
part of their winter ration." That clover is all'round fodder for all our farm stock is becoming more and more patent to all who will give it a fair
trial. We think that well-cured lucern not only form a complete ration for horses durin the winter, but for a summer ration, and for a to timothy hay and three gallons of oats per day. I remember hearing T. B. Terry, of Ohio, that
clover king, saying he had a working team thirteen years old, and he offered $\$ 500$ to any man who
could prove the during those thir had ever had one gallon of oat clover haye did all the years; they got nothing but
looked weli, and looked well, and we might also add that neither
wase touched with the heaves. I could hardly was touched with the heaves. I could hardly
credit the statement then, but I am sure now it
can be done; such managing would greatly lessen
Che lose
that they are very fond of it green or cured vees or not I am not prepared to say; but I moutld like to say a word for the hog if I am not jotting away from my subject. We towinter our oret werinling of bran, and find it very econom-
 At pring on a two-acre padock of lucerne clover,
rounting nothing but the clover and what whey
goting they will drink. They, work hard, but they cannot
 soll, and we expect to have
The advantages of cutting clover early men-
tionei in Jou article are decisive, but I believe oro not fully understood or appreciated by mang mere, perchaps, a littlo behind with their hayings, Sor bern, Lust gasoon taught a leeson to the tardy onei; those who were behimd and had their hay wet
oo oiten were unble to aell and adit that oat
 bifig spoiled by either rain or old age. We find
the queption of having the clover well cured in the cook very important, also keeping it from the lying over night. With alfalfa the greatest

 mewed to stand for soveral days until thoroughly quarntity is there, the horsies, cattle or sheep, and wuen hogs and hene, will come out in
sondition, and even fat if so desired. Huron Co., Ont.
f. C. Eliford. huron Co., On.

## in $P$. E. Island. <br> Harvesting the Clover Crop in P. E. Island

 rotho Eatior Fune rizs ADvoonts:Str, - Your artiole on "Farm Work for Jone" is seasonare of fortunato as to have a good orop of olover to make
int hay this your, and I am happy to say that most yl .

 there is no other crop can be comparea to it in value
Woll--ured olorer is said to bo worth so to $\$ 56$ ton for its manurial value after it in fed, and it is surely worth a contrined in the leaves and blosoms that it is very impor tunt that in euring ind handing it theses should bo all arod. The dirsotions in your artiole for entting and euring
the crop aro protty fall and oxplioit, and leave little to b The secrot of making good olover is to begin early boforo it is too ripe, and take your time to it. We meat by this, dont hanry and ant and at ot of it at onee, and
ran the risk of having it all ppoiled. Unless you are sure of fine woather don't loavo it in swath over night, If it is
toseded sbout during half a day in sun and wind, oook it up at night before the dow falls. No fear of it spoiling this muy for a night end a dey, if there is no watar in in when it for if it gut, wot in that shape it it about useless. We
would mooh profer loaxing it in owarth.
 like this when the olover orop is haeny. They con be made ohooply of a square of cotton forty inches wide, woil oiled,
and a stone tiod to each corner or pogs to stiok into the botand a stone tied to each corner or pegsit to silize to keep thom in pace. We profer 0 put our olover into tho bottom of a
inep mow, and wo think it oan be curred muoh better and
deep greener that way has if it toeisise to worm un by putting woight of other hay on the the sir being exoluded in the mow
 covered with good oaps and
sweatod, it will not require long after opening out to get it
 dollars to the farmers if harrested in proper condition. With a wet haying gaeson much will be lost tat best; but with eare nselul, ,monh may be bived hat would otherwise be spoiled.
W. S.

Dodder Infesting Clover and Lucerne. On neveral occasions there have been brought into our office specimens of ciover ent quite generally diatributed, even more so than farmers recognize. There are various species of doader, ay ollow, pink
are annual plants with inconspicouns joll or white flowers growing on threadike stems of
similar color. $i t$ may grow upon and draw ite similar color. It may grow upon and araw ite
nourishment from almost any herbaceous upland
plors. plart, but it thrives best on clovers.
The seeds are generally introduced with impure clover seed distrire gened with hath. The seeds germi-
nate in the soil and grow up as do the clover plants. nate in the soil and grow up as do the clover plants.
After growing several inches high it cling so After growing several inches high it citing tosions
green plame. When it bind sthis hot plant tighty
many roots or suckers are produced and grow into

does also the root of the dodder, but the dodder clover plantes, from which it continues to draw
nourin behind as its support is destroyed, and pushing out branches to attack now plants, it aon begins to
produce clusters of flowers, and if not interrapted a succecsion or fowers and sesas is produced, being ripening and dropping throughout the season, are able to retain their germinating power five years
or longer, but will grow at the first favorablo or
opportunity
It lucerne seed from a dodder infested field.
Eradication of this nuisance is not an easy matter. All vegetation on infested spots, and for somedistance around, shonld be mowed as closeny formed the fodader ma y be fed to stock, but if seede and bumed. About $\&$ week after the infested spots dhould be carefully examined for new grow th of the dodder vinees which not infrequently appear on the remaining stabbie or surrounding grown, surong
brine sulphate of lime, and ditue sulphuric acid have been recommended as a destroyer of dodder, but the sulphates of iron, potaseium, and coppor, Dive ciaimed of Botany, in a recont builetin, to be moot
offfective when dissolved in water and liberaly efffective when diseolved in water and liberally
appliod in ten per cont. osutions, The polution it kills, as well as the clover upon which it is growing, but the clover plants uswally grow ug again rom the roots, It is well to hoe infested spote ftrer the vegetation has been removed, or give prith shoop is a good methoo. of subacuing a bualy nfeoted flela that in not deaired to be broken up, but the animale should not be allowed access to
other fielas or they may carry some of the seedi in other fied or or the
their wool or feet.

## The Stone Silo.

To the Ealtor Farmaz's Advooumz


Sig, With regard
azound plan or gione ano. sicie rom the inside face of the wall. Then get tongued and grooved't lumber, the narrower not iot wout to for ait acrose the open space on to the scanting. Thi
makes it much more convenient to throw envilage out, as you can take pieces off as you desire a
plastered inside
with
common mortar once, and last coat with water lime and Portland cement, anc bottom as well, so there is no waste at the bottom comes out through one place into the stable b bucketfuls, as it can't escape otherwise. It is we
to make the wall as airtight as posible with to make
mortar.
I wat
I cut for half a day into the silo, last fall, two inches long and some one inch. In
noticed in the evening notice.
cut corn short, as it less room. I find it is much better cut ehort every way you like to take it. In the inrst peel the top off, rund the fork is always clean, but when 1 got do Fm to the long cut it was everlastingly sticking to the prongg. With the short cut it was easier to mir Whis advice alone was worth two or three yeares subbecripion to the ADvocaTs, It took two mon
to take itoof the wagon and feed the cutter with less to take itiof the wagon and feed the cutter with leegs
than half-inch cut. 1 like high speed for ensilage than hail- use a jack with horre power. It's much better to keep your knives one-aixteenth of an inch
but from the plate when cutting corn, and then you
Joan
JoNBE. can keep your knives sharp.
Wellington Co., Ont.
It is announced that the Dominion Express Compambia to Winnipea from $\$ 1$ to 82,40 per 100 lbs., and $\$ 2.25$ per 100 in 1,000 poumd 1 ots. The B. O. peo-
le are endeavorin to supplant the California fruits ple are enceavoring (he markets of Manitobpa, and as they are paying more attention to the selection of varieties and the moneations of shipping, they should, with the more
conorableexpress ratee quoted, succeed, which would avorabiex press rates quact both provinces in retain-
 Canadian territory.

The Octagonal Cement Silos.
 my mind is one of the most important queetions close competition and very manall margin on all farm producta, and eapecially so with those who loed for beef, dairy or breeding purposes. whan matarial cheapest, and the most convenient to be stock, and thus lessen my expenees? It is a queetion of economy, then, weare arter, and to my mind the silo goes far to ald in the right direction,
Attor having come to the above conclueion, we

 Mhis I under my own pert I can readily Eettlo the

 eight years, that I believe any of the moderneiios put in. Then wit keep ensiligeg good in properly put between the round, octagonel, square or rectangular se to shape, and a quettion of eoonomy and Now, ir 18 to the material with which it it boilt, several different styles of silos, nitmely, those of wood, built square, rectangular) and round (of coment ( (oquare, rectanguiar no octogn), and mi
 teen-riaed and almost found indide, so that it hes
overy conventenco and all tho adrantaget of :0
 ing you can get good, zoen, conreap grivol oon-

 the country for the Hon. Jonn Dyyen, form fore
Agriculture for \#hom am acting
man. I laid out the plan and superintended the whio thing myeeri, and kept up the rarm wort
 ano octanona cement sill such queetions as I Can. A. H. Obreigrias.
Ontario Oo, Ont. [NoTs,-We are sure many of our renders will be of the octagonal silo he so succesptrilly built, the contained in it, the proportion of gravel and atone to cement, the number of men and of the required to
build it, the arrangement of the dore the the the arrangemention mor Farmer's Advocate, ]

Preparing for Fall wheat. The high price recently ruling for wheat vill no Thovision for sowing a anger acrevao than umand.
 Egood prospect tor continued good prices; but
 the past year in many sectiont of the countery where whest was somn on unsuitable goil, or on hould teach them to proft by the mota yons. Th past and to pracice wieg in late year immedintoly after harveet and continued through the moning central provinces rendered the germination anc growth so very slow an amperith, and the sotere
 very ungestiffactory proppect for a crop,
remarks apply principalil to clay hand where care
wes not wras not taren to preserve moie on land thet was nummer
 growth, even on strong ciag y plowed down during the wet weather in July, and kept well work ou to eeeding time, the wheat made a good start and stood the winter well, and ie very promising, that have aiso seen some peach which had been grown on
wore sown ant
sod plowed in the spring, the land being simply sod plowed
cultivatea, without plowing, atter the pean ware harvested. If the land id tolerably clean, end the preparation has proved m ant, may leo, to a limited exart, and there io joufcient
 fne after plowing. It the land is not a rich encougn
it ig unwise to riik wheat on such a preparation
unlees ehort manure is available and is applied as a
top dreesing, being worked into the soil with hirrow and coltivator. In all these cases it is well clover, Bowing eay three or four pounds of timothy vith the wheat, or soon after, and a full seeding of
cover in the sping, to fertize the fiela by the Seowt restorers of ofertility, which is one of nature's

## Sow a Plece of Rape.

 succulent patedar or force crop will produce as much so rapially It may be sown proftatably any time up
to the male of July, but the last week in June is
 sown on the level with a grain drill if a turnip dril the graes sead attachment of the dirill cossing parg
of the holes and running the seed down the rubber abos, which mayy be slosited to carry it to the hoes to 28 inches apirt as the divivion of the hoes on the horvo hoe to keep down weeds and promote the

## VETERINARY.

The Housing of Live Stock with Regard to Health.
 whers, namely, the proper housing of live stock auing the long winter monthe of our severe diriry and live stock induustry justifies the applica. nent and structural astill in the or sciention of suitable uilliting for the ohelter and care of the animale dependis, Regard for economy and conveneience, aest facilities for attention to the stock, looking to maximum of results with the minimum o of bastment and labor, has led to the combination ombination has many commendable features, it mperceptibly defeate the prime object of the inVeitment and render the enterpriie unproftable firculatory system of the animald is impaired digestion fo only partially performed, vital stamina poor showing of the farmer's ledger at the end or hhe year.
Soominal things have tended to bring this subject prominentiy to my notice during tution past for poction of soome unhealthy cattile which I found housed in a fanity barn the perusal of varioue
plang for barn and stable builaings which have appeared in thir juurnal, and a suggestion con.
taneed in a letter by Mr. Arthur Johnston, of ren, 5 tho, cular Infoction in the issue of Jan. 1st, which, with to acknowledge.
ood word for light and ventilation in stable sabie, and $t$ is to the unfolling of this suggestion by showing nomic point of view that I now address myself. If rational methods of barn architecture conduce at once to the maintenance of thi highest standard of of stock, there is surely sufficient inducement to he consideration of this subject.
gUNLIGHT A VALUABLL GERM DESTROYER.
The benefits of light justify the trite statement generally known, though it ought to be, that the best, cheapest and most easily applied germrifty tow hours, while in a dark, dank place they will thrive, and it would seem that the whole wicked brood love darkness rather than suniigh the windows you can, and if your animals "laugh and grow fat" from the increased pleasure brought Fill, you will not objeet. of the subject, however centers in the matter on accommodacesinan and vantiation or the provision of the necessary spaper of
 greatest need of improvement in our barn builang
The natural life for stock is, of course, out in the But the necessity of winter sheltering confronts us, with the artificial conditions it involves, and
this has to be considered, with provision for the
prevention of difesese and the maintenance of problem. The solution of this problem lies in the application of the principles of animal hygiene to
barn structure, and lot not the farmer be araid of the application of science to this matter, for true
 his work on Vetervary Hygiene Dr. Sinith stands
hit the head of the Aymy Voterinary Departat the head of the Army Voterinaly Depart
ment of Great Britain, and is consultant in the be accopted with the greatest conffidence, and my beace
chem.
then
chem. the maintenance of health the exhalation of carbonic acii gas form the lings or araising from 1,000 volumes. The gas ammonia is also largely to the syotem generally and to the eyes in particalar. Bosides the poisonous effect of these gasess in hemselves, if an atmosphere befouled by their nfection present has a good opportunity to get in its fine work. The average amount of carbonic acid gas oxhalation is 18.5 cubic feet per head
per hour for animals weighing 1,000 libs. apply of 32,500 enbic feet of pure air per head of thaintenance of ohealthy standard for animais woikht grade of the stock contemplated, we have
32000 cubic feet per head per hour as the necessary supply.
an heustration.
To illustrate $m y$ argument $I$ will ask my readers to study carafoluly, with then acocompanying deacerripion, the plans for a "Well-contrived Barn" in the Themesp plang aire probably beiter thant the average of actual barne, pand are referred to not for special
on animadversion, but to give concrete efrect to the discussion In the de
the main buildintion the height of the masonry of is given as nine feet. Alowing one foot for
ioisting, Ithink I am safo in assuming that the height of the basement story is certainly not more eignt ten feet. We have, therefore, the following
than
ten dimensions:
$00 \times 6 \times 10 \ldots$
15 Dediotine: ;
Roatio aide izix.
${ }_{\substack{516 \\ \hline 14 \\ \hline}}$ 1.200

23,000 oublo foet.
Dividing this result by 34, the number of head of cattle for which firtures are placed, gives 604.4, or zay, roughly, 700 cubic feet of available air space
por head as the most liberal construction the plan dmits of.
Taminatod with carbonic acid gas to the extent of 9.3 er 1,000 volumee in one hour. Alarming as this appears, the vitiation can be reman be made so to dilute or remove these poiso exhalations, In our northern climate, however, the condition necessary introductions of pure air to maintain the hoalth standar of 2 per 10
 chang es of air the temperature of the stable would
be practicaly the same the that outside, the extreme cola macticaing great demmands upon the feeding imply themaintang bo of hair where by the cubic contents of stable eppace per capita of stock they are come out from the protentious now barn in a less
healthy condition than from the old straw-chinked healthy condition than from the old straw-chinked
table with its unintentional provision for ventilation, the same care in other respects being exerised in each.
The associated manore shed condemned The manure shed in the plans under review canor the temporary deposit and rehandling of excrein such a place and under such conditions the liberation of ammonia would be very considerable,
and that of carbonic acid gas would be from 9 to and that of carbonic acid gas wound be from. 9 to
3.0 per 1,00 volumes ; and ii heating of
 The fact is, there are fixtures for double the number of cattle that in cubic necessity of protection from the extreme cold of
our rigorous winters. Seventeen is the the tmost roperily accommodate. It such however, be made to accommodate twenty-five head by certain alterations which are perraps possible. At least
1.50 cubic feet of space per haoad must be provided, 1,500 cubic thoen feet would not be any too much in our
climate. This would require that the stable baseclimate. This would require 13 feet clear of foro and the total
ment be made area of the manure shed be added, the space of of
which could then be advantageously used as which could them be advantaghously used as as
driveway to remove the stable clearing every
morning. The root bin will also hate to be left
out These changes would yield the following
neant out
reault:
Rasen
Nand
 ${ }^{15}$ Leobiblo foet per herd for 25
 375 3,506 aublo teet Available air space.........
Dividing this by 25, the number of sitock we now hean. With this amount of space per head the more rational number of twenty changes of air per
hour only would be neceseary instead of 45 required under the previous conditione, while if 2000 cubio feet per head were provided onl
air per hour would be needed.
a ventilation bcheme bet fobth
The beest mode of ventilation now claims our at
tention. Iregret that the absence of side elevation or sectional viow in the plans we are reviewing
leanes in without leaves us without precise knowledge of the mean onvy state what 1 conceive to be necessary and Adjustabl
tory on account of theire, fragile anature and th tendency of frames to swell under the influence of
moisture. Windows shonla be uned only for acoeces of light, and shoula be made double or pro access of light, ana shous for the aving of heat
and inded
and and indeed, everry part of the building shonld b
made as cold-proof as possible, since every unit o mede as cold-proof as possible, eince every unik ac count on which we dray for the purchase of th pure air necessery for health, and the balance which means economy in feeding and incroased pror ventilation, though useful for occaesional fiabl ing, since it it during the long nights when pro ancestest need obtains for a regular changee of air
great and greategrt in in nowise necessery in order to pe
fect ventilation, which fect ventilation, which consiots eesentially in the
diltution of vitiated air
of
the of pure air, or simply by the diffusive power of tho gajes. Invertical ventilation ghafte, as ordinarily con
structed there is great difficulty in maintainin structed, there is great difinculty in maintainin
the up draft, from the tendency of the foul to have only a slight amount of buoyancy, and balance in the shat, becoming when cooled of equ part of the shaft, The only mode of constructio phave found aucceseffll is making them two feed square, with smooth boards on the inside to avo
friction, dividing the shaft vertically and corne friction, dividing the enhatt verticainy and corner-
Fise from thand havit projet two
feet from the roof, with side openings for the four compartments and a suitable covering. Thus con structed, the shaft becomes a combined up an down rentiliator, changing its up and down draf thus constructed work admirably in small stablee zontal vantilators placed between joists, with open ings on the sides of the building, and conveyors to carry the fresh air
give better resulte.
A word must be said concerning the area of ven-
tilators. In the plans being reviewed 1 notice tilators. In the plans being reviewed 1 notice
there are in the catto department three shafte the would not beg quired by the number of stock contemplated fo square feet of ventilator area on each side (for in in
sity and out draft would be required, assuming an
average wind rate of eight miles an hour. Slides average wind rate of eight miles an hour. Sidee
would of curre, have to be provided for use in case of special draft, and in order that only pan
air be admitted without which the whole purpoe of the provision would be defeated, it is absolutely
necessary that manure be not deposited under the necessary that manure be n
openings of the ventilators.
preserve feed from contamination
In regard to the feed storage upstairs, though very convenient, unless it be well protected from
the gasses ascending from the stables by the tighte fittings and covered chutes, the feed will not b Monravinated iby microbic foes.
In conclusion, I would say that stock-owner should realize that light and pure air are just a
necessary as foods that nature supplies ua with a neecesity quantity of these free of charge; that
unimited
windows and ventilators are all that is necessary to widows and ventilators are all that ia necessary to
give acceess to these important vital agents; and latitudace is an absolute stable requirement of the axpense in whived in a wood building is very little When spread over a fifty years' term of usefulness, tentious barn, which has so many valuable fature to commend it, and makes such a show on the farm
but I believe that the best results will be obtained in the single-storied stable, with moderately
 which, being adjacent to the stabie, will allow or
the feed being mechanically distributed to the stock by me nus of travelling conveyors. themselves to a
tock-owner will best secure his interests by follow-
ins the principles 1 have imperfectly set forth
 able, but allo to the horesestable as weil. troma humanitarian as well as from an economic of oll creatures and we chould provide, therefore,
onf as firs indebtead in so many ways for protit and pleas. are and with whom we are invout
are, ances of a common environment.

## DAIRY.

Revision of Rules and Regulations of the Dairy Department of the Provincial

Winter Show.
 Provincial Winter Show met at the Royal Hotel,
Guemph on Saturday, Jane th. Members of the
the committee present were
Olemone, $G$.R. Day, and W. Butler. The clauses in thich, a change was made now read as follows:
 Oor which accenth the exception of those designated "Special,"s2.00. (b) The age of dairy cattie will be computen mill, and the awards shall be made by atiofollowitg scaile: 10 points for constitution and
 moch 10 days in milk after the first 30 days (limit, 30 fach oerhibitor in the Dairy Department stating the number of deys his exhibits have been in milk, proper clase, and that one oris the animal named on the registration certificate produced. (e) Prizee in the Dairy Department will not be pail for one necessary on accounc in of the test. As the show in figuring out the reld on Wednesday, Thuriday.
 Basilage Feeding and Good Butter.
 allage and the enbank factory regarding results for enquiry iter, Mr, Jos. Lanng, butitermaker, handed To lotrors received from Mesars. Park \& Blackweil, of Toronto, and Peebles, of Hamilton, on the crosing
of tho year's businese. Appended are extracti: Avonbank Cheese and Butter Mif. Co. Avongank losing the season's We we are pieased to say in the the thaity of the A vonbank butter during the past Beason hae boen quite eatiofactory, and the trade here are now weil locquainted forward to receiving same next season, when your company resume buttermaking opera tiona.

Yours traly, Park, Blackwhil \& Co. Hamilton, May 28, 1898. Avonbank Greamory Co., Avonbank, Ont: full of last statament amounting to si.00, and take this opportunity of saying that your butter has given usen Not even once during the season was
pasthe lieast bit oft, which is saying great deal. It
it the is very pleasing for us to be abie we have to write way, for as a general rule when we have are considered cranks on the butter question. Therefore you may consiaer wo quis of praiest for the even and have nothing bat words of praise for and from the gatiefaction siven we expect to double the sale
 Messrs. Park, Blackwell \& Oo.. of Toronto, and Peebbes, of Hamitton, have hanice the is stated in your Avonbank since frat operated. As stated in your $50 \%$ of the butter was made from cows fee on essilage, and prover oonclusively that good creamery
butter can be produced from ensilage.
Jos. Mountain.'

A Big Day's Make of Butter. On one Monday recently, says the Argus newe paper 150,000 pounds of milk, and on May 31 churne 6,272 pounds of butter. This is the largest dap' make yet in the creamery, ar ever made in one largest quantity or buto of Canada in one day. Why, if the promters of this concernt thas of starting such statements that within six mone been made in over taree tons odieces would have thought them texd for an asylum. But there it is. For May
then output will be over 95000 pounds of buter. In
 nis deduc
dentan
cents.

A Great Dairy Cow
${ }^{2} \mathrm{SIR},-$ Enclosed find photo of our celebrated grade cown Scotch Laseie, from pure-bred Shorthorn Cow and sired by regiverea in inain iltile over ten nonths gave
butter, a record which, in my opinion, shows what careful breeding, scienkinc of the ind ividual animal will'do. The above totad is included in year's record of Mr. Tillson's 55 cows, given in your valuable isser showing an average per cow or 10, and 42 dayse Wo . Wo
and 418 beb. butter, for 11 month are raising a heifer calf from this cow which it woula be daimcoult to buy at any price, and laet year's bull cail we propoest, although Min. Tillson is adverse, on principle, to ueing anything on hie herd but a frrst-class thoroughbred bul. drocate the
Please note that by no means do 1 ad excluase note that by no means asing of grades. The herd here is con-
 dian on date of writing, and for whice dar
 Batcon carefi, and otury, of the individual ani.
Bati, very much can be attained to bring the stock mal, very much can be attained doirymen must now no a point ot permaking of a good milizer begins be know tirth, by the proper breeding, feeding and
forending of the mother
han Norfolk OO., Ont.
Influence of Food on the Quantity and
f Food on the Quality of rilik.
The quantity and quality of milk as influenced
consituents and conditions of rations of cowt ${ }^{\text {by }}$ has boon the subject of much diseusesion during the last fow yoars, and the end is not tye. Mr. F.J.
Lloyd, F. C. S. Consulting Ohemitu to the British Dairy Farmers' Asoociation, in a paper read at a recent conference of the abova Associatian, goes
into the subject very funl ynd anrive ation im portant concluaions which agroe with both ecience
and practice. The author of the paper points out

"SCOTCH LABSIR"- 8HOMTHORN-HOLSTERIN CROSS

that aftor caroful study of the results of very many xperiments he ia frmy convinced eoth the quantity acom may materialy in miuence . The reason that the results of so many experiments have been so con-
flicting is that experimenters have neglected to licting is that ax the inevitable limitations and take into account the inevirabe has hemmed in thie
conditions with which nature subject.
In every milling cow two tendencies are at work. The one is to conver the houd into the
which is puppied by the ofoo to the blood milik; the espond is to storeap that nouriesmen
in the body. The relative stren th of these two tendencies varies greatly in difierent breeds of cattle. This peculiarity is inven more mark Hence, in every millining animal there is a constant a comparatively slight or simple cause may upse the balance. Take as axample An exceptionally cold nild of war large hera. The macteriela have been utilized for maintenance, the
demand for animal heat for the thime being having exercised a more
of milk production.
of milk production. In a similar manner the character of the food supplied to an animar it ane an excess of some particuThus, if the food provide an excess tendency for which this constituent ismostadapted. For. example, a cow fedat it requires for mill proood, having aseill be left with a surplus of nutriment in the bloo. This will be utilized by the tendency of the cow to fatten. In a similiar maw. ner an erceses of nate will produce a tendency to
ever, is far more rare
make fles.
The invariable result of an exceese of nutriment is to increase the live weight of the animal. It may be woits final result. The udder, like every other tissue of the animal, is capable of for
fattening, but in doing this its secretory power is
diminished. Hence the altimate result of a food diminished. milk yield, but to diminish it.
In considering the effect of a food deficient in
and nutriment it might be pointed
 spring is a more powerfful influence than sen proservation, ie, as a ruie, stronge up in the body
oncy to presire the tore
Hence Hence, the eiftect on the mik or ore time very giight but it will tell on the body of the animar and there
will be a grad aal loss of weight. For oome tim only the geales would show the effect of this in
sufficient food, and not sumoient food, and not che milk. Hence no experi-
ments on the ffect of food on milk supply aire concluaive which doct on thot take into considaration
able. There is for every individual cow a maximu There is for every individual com a maxime
quantity of mill
nill
nill milking This depends upon the capaciy dovoter years of study to the milk ing cappecity of of the udaer, and claimed that by a careful measuremen of the udder it was possible to form a yerry approximate, estimate of the feecing mas so regulated wid to.
jield, provided
thene provent any factle ovident that ifaco com ier receiving an ample supply of food containigg the nece wil
constituents for the production of mill she make the marimum quantity her udaer will hola. ome experimenters, condition, and finding foon or variations in thet increase
quantity
ofich did not diminioh its nutritivo value), proquantity of not diminith its nutritive ralue), pro-
 sources of error which experimenters have been led The quality of milk io dependent on cortain
actors quite irrespective of foeding. Primeril


 richneese, Ving the entire situation, Mr. Lloya it lea
 got at the truth by, instegad of considerith
quantity and auality
two. We con thas determine the combining the
 whith any gain or lose in live woight which hin
 ing. Hence, steok of of nutriment in the blood,
upother sher that nutriment be supplied by tho
whether food or from the animalis body. the writer of the paper, "the preaent otate of or prik knowledge may be briefly summarized an followe:
gain nor properiy ted adairy con will noither Iitions will produce the maximum quantity ad miat milk will have its maximum quality ; is a. there will boa maximum epithelial growith it on ideal milk ration, and the neared approach to it
which man poseesee moment artiftcial. Peeding commongoen the congiven the tendency to fatten will grodually ont: defifiency of nutriment be given the body frill
 adendant supply of water. re now inge fooa in
 for me under the latter conditione. The result wio that the animals first utilized the food to repplenien cally unoffected for from four to six weeke. Then
 error in feeding expely long period. "Some years ago I carried out a foeding experipeattures of difficrent character. The milk raried, pasture the animalience of every observant farme the universal experience of every a secentific man, argee with practice, and have. ent to find evidence
which can thake mon conviction that food han marked

Ask your neighbor if he reade the Farmer's $\underset{\text { for it. }}{\substack{\text { Advoc } \\ \hline}}$
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THE FARMER'S ADVOCATE.
June 15, 1808

## POULTRY.

## Gapes in Chlcks.


To construct a good feeding pen that will admit the joung cowis and exclude the old and greedy pouitay wire netting, two feet wide, and having a twenty conte. Four stakes ahould be driven into Whis around theee the wire is stretched and the be placed on boaidg in the pen and the young fowis
will pesi in, while the older binds are so busy trying
to pat throngh that they neger coneider the to get through that they never consider that it
were poeibloto to fly over. If the pen is deaired to
exclude also the month old chickens it shonla constructod of netting haring a mesh of only two
inches : while if it is desirad to restrein the wander inches; while if it is desired to restrain the wanderfiner meeh whir be required. But in this case it
must be conitructed so that it may be easily moved
from from place to place, and, of course, must be much
larger, having room for a copp in the center of the pen.. it the coop be placea near one side, hens will and then downamong the young birds These pens
Fill be found muoh superior to the old board pens. Benides boing lighter to handie, they exclude other
fowl and loo much better, and are not so apt to get
apait at the joints.
GYRA.
Infertile Eggs and the Poultry Industry. Only those who have to depend upon the open market for their supply of egge realize, especially
during the wamm monthe, what a quantity of eggs
are wasted each year by becoming stale or rotten. True, the average housekeeper on the farm knows into a cup botore consigning them to their culinary betore these dimicultios arise only when the ougs
have become fertilized. Eggs do not soon become rotten when there is no male bird in the poultry
yard. An unfertilized egk will come out of an incubator or from under a hen at the end of two
weeks perfectly clear and fit for cooking purposes while an impregnated egg, if bat on for forty-eight
hours, will, at the end of another week, even if kept in a cool place. be of bad odor. The germ will have commenced to live, and afterwards began to decay.
The story is told of two poultrymen, one of which cracked the shell of an egg and asked the other to decide whether or not it was all right. The reply
he made was to open the shell and consign the
contants to his digesting machinery contents to his digeisting machinery. So freeh and
palatable was that egg that even after he had weakea he had not the slightest deaire to rid himself of it, Of course, the egg was unfertilized. Speaking from experience along this line, we may ay y
for two seapons we have allowed no male bird to
un with our hens, and while we are convinced that run with our hens, and whis he have been just as large per hen as
the egg retur years when male birds were running
on previous on previous years when male birds were running with the wock, we with durig that time. What about
conickens? some will aek. We have no difficulty about that, as our neighbor, who keeps a beantiful
flock of Plymouth Rocks, is always willing to flock of Plymouth Rocks, is always willing to
exchange egks whenever we have hens wanting to
sit. The objection has been raised by some that sit. The objection has been raised by some that
hens will steal away their nestt during the summer monthe and will, in such cases, bring forth fine
broods of chicks from fertilized egge, whereas
infertile eggs will be all ost in such cases: Granted infertile.eggs will be all lost in such cesses, Granted that some such loss may occur, we believe the most profitable and satisfactory results are secured when selecting the stock from which we would wish to breed, instead of being compelled to throw away large quant
been stale.
odiewing the matter from a breeding standpoint, in fact, it is only in this way that improvement in the to breed from, any more than every cow will raise the most desirable class of dairy oifspring. This
poultry question is surely worthy of more careful
consideration than is usually given it. Markets for poultry question is surely worthy of more careful
consideration than is usually given it. Markets for
eggs can be developed only by supplying eggs of
good size and of such a character as there is no
doubt about, and for ponitry by furnishing a plump, well-developed and nicely dressed class of birds. There is, perhape, greater room for develop-
ment along the poultry line than either meat or
dairy products,
 the benefit which will surely come.

## Rearing Ducklings.

As a number of advertisers of ducks and duck
egge claim to have had ready sales we are forced to conclude that many beginers in duckling rearing are readers of the FArairrs's ADVOCATE. The method of rearing young ducks is very consist of corn meal and bran of equal parts, with aprintling of coarse gand, all well mired with cold what. This they should get five times a day, jusil always be hungry at meal time. When a few days
ola, finely chopped freeh meat scraps should be old, finely chopped fresh meat scraps should be adeed to the ration. If they are overiec, bo the attack each meal greedily, they shoul be made to miss a meal or two to give them chance to relieve their stomachs, If they have growr feeds a day will three meals a day is all they should have. Pee meal and shorts, or roiled oats, will do as well as any orher food,
green matter should be continued. Rape leaves or cabbage is much relished by them and serves to force them along rapidly.
poná to swim in no longer holdse sws must have a If the ducks are to be marketed as "young duck at eight or nine weeks old. True, they do need access to drink and puddle in, and not to swim in allowed to swim they will work off very much o the flesh their owner has enceavored to grow upon they are feeding, as it Beems necessary that they eat and drink simuitaneously. If ducklings are carefully reared in not too large, but clean, quarters they wh maine much more rapid and economica
gain than will chickens. At twelve weeks old a well-forced chicken should weigh one and one-hal pounds while dressed as a broiler, while a tenfive pounds, and will bring, in the same market twice as much money, while in the one case twelve week's feeding was necessary, as against ten weeks experimether, that hacklings pushed along actua in experiment that ducklings pushed along as in
dicated above will gain, after three weeks old from nine to ten ounces per week until they are
nine weeks old, when they will each weigh from nine weers ola, whe pounds.
four to five

GARDEN AND ORCHARD
A Grand Old Pear Tree.
in blossom for the 61st time The pear tree illustrated herewith, reproduced
trom Agricultural Gazette (Eng.), would not readily the namee beneath, but Englishmen will be re minded of the custom of training fruit trees upon
the sides of walls in the old land.

Boxing and Marketing Strawberries Unless strawberries and other fruit are packed inviting condition, much of the season's, Fork with guided by the personal appearance of those who boy or girl, woman or man, is rarely satisfactory as a mood mas a rule they are not all equally careful give every picker a number which he or she must
mark on the bottom of each box as it is brought in. mark on the bottom of each box as it it ibrought in. In this way every picker's work is eadily examined,
and the bad pickers discharged or otherwise dealt
with. with.
Strawberries should be picked with a stem about
one-half to three-quarters of an inch in length. one-haif to three-quarters of an inch in length.
Every berry should, if pobsible, be picked separate
and laid in the box. At least one cannot impress
he tect too often on the pickers thet they must be

 Hopkine a prominent bearry gromer ot Mieouri

 his right to dommen carinu mot Berr. Crateo ahould be made out of nito olloan topat the berrie should be oovered with heng vo tiobue
 the paper iv not nicection Abpring wiego end Anat thot are mot joosted, mothod io whenever he had poor frit to toll he took it around to some doaler pond fal grower muet not only grow tho fneet fruithbut
 Kollogg, of Mich., by giving close attention to the

 printod eat the finest carribge, cila hah top, end aitici
 Eept beautifully polibhed Nert, a neat four-page aircolar, with suitabio engraving, wea printed in
 they conld get it, These were neatiy follad, and anded her one of the cirrulats The locel columne
 barieg, "haen a romily tiocket wat t the piokere, and deach one re quirest to pod in cherge Sarries in the bottom or the boot, and foce the to
 packer whor pot bead never used, and woo the the Crant sorts of berriee wore so srranged in tho rateon zo cawe no loos of timg in exohanging ${ }^{2}$ miesion during the barry vieson to keo theol ouvo four, ifi, dight quarth, and trequantity o hall ort toro quante formeriy required trom the grocery Oantomera a par enver owerchanged, but


 romply reduceat io increase consumption. When Rairn in in maine intiin to.
blackborries, and o other trier aite past, raepberriea




 mork connocted with marketing in this wasy but to

Spraying of Fruit Trees.
To the Faitor Farmier't adyooums
will produce Borcteanx mixture thinks my formula tion on plum or peacach troese Ire ungeafo for applico-
 and which was writhen by Prof. B. Tr, Galloway




 to spray Bome five or six yearb ago . For the drat
 number) on plum and appie tarea, Two verir ago received dhe above mentioned bulletin, and H hav
 II the time have been epraying, Ido not thinink I over noticed a leaf injured on pipt trees the injury
of which oould be attributed to the Bordeaux mix.
 mixture more than twice a yeari; and now the trees
are looking fine. The varieties of plum 1 have





 mentary reference to Prot, oraig and mine does
nut, which some people would say was the reasen

THE FARMER'S ADVOCATE.
ounce doses of nitrepotash. She is not, apparently/
any better yet. What is the matter with her, and any better yot. What io the matter with her, and
what treatment should 1 pursue in order to haten a cure, as I am wanting her to work?
is the whe When is the proper time to trim spruce for making a
hedge? hedge? [No doubt the part was poisoned with Alikike clover bloom. Apply equal parts turpentine ane iodine ointment, as followe: Potassium iodide, two drams; iodine crystais, one drabe, bell every day one dram; ; arre, moderately quiet and feed her well
Keep the
on
 2 There is no better time.
than the month of June.]

## Miscellaneous.

## A Breeding Problem.

Qugry, Peel Oo, Ont:-"- Supppose A buys ten cours in calf; that theoe cows breed regulary one cair eacc year; two years old, and that one har the
duce a caif tat two
calves from the original cows and their fomale
Hurdles for Guiding Hogs.
 ithe world to drive. We
the world to drive. We
have alwaye need Aheep hurdes for this purpose, but recentily have noticed a device ilike the illustra,
tion herewith
Bhown. It is composed of two long tion herew,
light hince hinged to a short gate, This permits
faning it at any angle, and when in the hande of two porraons it enables them to do wonders in driv-

Filling Sacks Easily.
The accompanying ilusiation shows a conven-
at device for filling grain sacke. Strong iron

hooks fasten the box to the eoges of the bin, while gokllor hooks are put in each lower corver, to which the sacks are attached. The grain is then Agriculturist.

OUESTIONS AND ANSWERS

 Legal.
Landiord and Tenant.
Readre : - " $A$, the tenant, leases from $B$, the landlord, a farm for three years; the Cease
writing, but there is nothing in it it expresely requir ing A to sow any grass seed, either cover or
timothy, nor is there any express clause providing against sowing successive crops of wheat, etc. is
A bound to sow any grase seed, an could he if he
and choose take of thry
[Unloss the lease provides for the same, $\mathbf{B}$ cannot compel A to so any grass seed, nor cessive crops of him from taking off three successive crops of
wheat; but the ordinary forms of farm lease wheally contain a clause requiring the tenant to crop and cuitivate the land in a proper, good, husbandlike manner, and by a regular rotation oin
crops, oo as not to injure or impoverish the land, crops, so as not to injare or sumporeriase then, of course, it must be observed in a reasonable way and the question would be whe tuen unt and nature of the sio and the custom of the locality such
proposed seeding and cropping is a reasonable obproposed seading and cropping
servance of the agreement.)

## Veterinary. <br> Lame Mare.

W. B., Haldimand Co., Ont.:-"I write to ask.

1st, What it the matter, with one of my mares? One of her hind legs swouch, watery matter runs

 bi) you think that the clover would be the cause one her trouble? 1 gave her a quart of oil and one
cunce of sweet nitre. I also gave twice a day hali

## jodres por autina hoas.

offopring are heifors, the male calvee not being ond of ten yeare, provided none have died in the menatime; ; and it the male calvee also are counteo, What wiou some one or more having time and the digooition to work out ex complex problem please result probabily not so surprising as that of the first of the 32 nails in a horse's aboeen and the price is doublea in the case of each nail driven,
willit cost to shoe a hores? ?

Marvesting Lucerne Clover Seed.
J. A L, Peol Co., Ont:- "I have some lucerne
 It take the first crop, or, as with red clover, take the second crop Whelal is grown for seed, the seond crop
is the one usually gaved. The jield from this io usually heary, and ripene uniformil. The first crop does not otten neer wind pind of the flowere are not present in suifcient numbers in May or early June when the flowers first open, are darip brown. be cut for seed when the poas are dark orowre.
Rale at once into hoaps and dallowit to In the erop is put together damp it in vory liable to
mola. In K Reneas, Nobraek, and Colorado conviderable success has been hea in cutting the crop
Cor seed with a binder, and threshing diroctly from or Beed with a thie stack. Alfirfa uan be threehe with any of the ordinary machines when provided
with sets of screens of small mesh, such as are used in hulling clover.]

Coslings with staggers.
J. F. H. Simooe, Oo, Ont:- -"Can any of the
readers of the FARMERR' ADVOATE toll me what they think is wrong with my goolinge and what to oo with them . They are kept in the orchard anc have pient of soome of them got so woak thoy wia unable towalk, and if taken into the house for wowle they would seem to got etrong, and when taken ou take staggers and die. 1 gave them sulphur in their f feed, which consiots of
it did not seem to help them.

Eradication or Burdocks. R. ODDokounus, Wellington Co., Ont.- ". Will you kindaly inf
of burriocks
[The burdiock belongs to the clase of plante known as biennials, producing seed the second
year, which is the last Yoar of itite. IIT Yoar, which they can be left until the flowers have formed, they may then be cut off near the ground
and destroyed, and the root will give no further and destroyed and the root will give no the firrt
trouble. If it is desired to dig them up year, or during the early part of the second, year,
they should be cut off well below the crown, when the roots will tie. If cut above the surface of the soil during the first yeer, or early part of the and propagate themselves afreem. your method it to go carefully roumd the form, opercially along all the parants in flower and burn them , Wo thut Hardwood for Posts and Floors.
"LLEWELLYN", - ". Do hard wood poote hast as long as soft wood when
leaves to draw sapp out? 2 . When would be the
 3. Which of the three would you recommend,
maplo, birch, or beech?
suitable flooring for a
d. Welling
carpeted? Would it be hard to dram carpeta? If
go, could a strip of coft wood be put in all around edgo of room?" (1. Under no circumstances will hardwood, ete-
 the hern the the timber to secure tree contains the minimum of moletare and thatio


 throe wood mentioned, excopt per hipe ret iocelt which is cleimed to remain the waed tor floortifs otherthe pino Eitrip incerter around the edeb of tho room to that the curpot to.,

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| aned themil 1 ound bil |
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|  |  | when thoy died. Wh the ginht tho or the thelit



 yoch a combination with modiolne, put in mos.

Origh of the Cerman Conch riove. W. . . Lanath Oo. Ont:-"On yon Hive ation not Germion coseoh horwe of the priesit dy origg. MV. A. B. Holbert, Prelalent of the Gorine they originated from tho Ariblan homen and ainux



 kopt py the Government in tio ang wiliof wabjeen through the 10th contury and como rocordit tun


 by the ofla Governmentrecorde coo pilile by the



## MARKETS.

## FARI cossip.

## Prince Edward Igland.

## Tho crop is all in hero now, ezoopt the tumipe, Vogethe

 como wp finely and io groving oll. Mot ot tho chevis toctories opened about the int of tho hopenot forling in ther

 roons, pase and conn grown for coom foed, and leo oote for







 many
June
70 the
of it
June 7th. F. M. Weboter, of the Ohio Esperiment

 forvering cherriee, inported wy it. g, pursery
firm from Japan, baily infested with the peit.


THE FARMER'S ADVOCATE.

The Village Oracle. Bonoath tho wation: ibeaten poroh He altatioama an trod man That troencooreay yor or moreb Thite implo eoit for har. Hiataontary keen and ehrow
 And joly tarmers raidg by Call out, Good mortirg, Unole Dan!"

Weal of th' wind shoula ohange about Huth Hiton oigery)

And derer at the easeons come



## BOGER'S BANQUET

Late in the atternoon of November 10, $189-$ a merry grou of youing-rooms of the Matton Oho











 other. Beastiy shabhy of hin too He must kno that we ani: A compliment, my dear fellow. Boger haen't eot the





 a dinner, Tmime to. shy ana' sengitive a man has the face to
 loug Boger did enjoy tho turtle. Boger hath a oapacions waist



 Nin











 fill ingular charge of thert agansit an











 Mirres and gione plideded a tow woeks proviousir wh


 manto buit torgoviot him But whz dila you tako tho knilot

















 ${ }^{1}{ }^{1}$ I bot yoill will

"Thiticonmittoe will hro something thegr to the"



On that dat weok when the unfortungio Boager aut




















gontieman, when atked how the pamitioketaonould havocome to Bore poadion was unaide suggest hiposive


 Fill itho worshprol Aldormani heorrwe MUnder theosingatr airoumatoos, continua dound










年

















## The Old Straw hat.

## Whithote orition hid


Harbl edgee oftho autamp orre
Untrin in ilitity firm
It brought mo boriof from the pathe,
 Moh yer ho hilidity ievile done.






 pepper, asit, and rab all over whit butur, anion fre, with the inside of the chicken down over sten. Whten and aprinkle with pounded cracker.
melted butter and meited witter broiled tomatoes.

THE FARMER'S ADVOCATE.
June 15, 1898


The Discontented Boy.
There was once a boy who was never contented. It you gave him one thing he would always with
tor azother. One day hio father and mother went to town and loft him to take care of hie little sister be bome soon. After they had gone to town Mrgie cooted some appled, and then they played open the gato unloent thafr uncle came. They Were
pity ing boin atho bil went orer the fence. The

 sho eaw her brother up to tho waitit in sinking banc. in the garden he might not have been hurt. $\begin{aligned} & \text { Lrix } G \text {. THowson. }\end{aligned}$



 THE QUIET HOUR. Sumshine for Every Day.

## 

ind
Some people are lite ounchine. Even to meot ing does ur good Thint how our comfort depeend momber of our family is in an irritablo mood, reather - how many soem to freel themselvee
 romenes of one individual can make the whole one yo if you are that individanal, is the position
one woula
ilke to maintain? Do you realize how unlovely you can be if you try? It if easy
to see, if someone eleo is in abad temper, how um. pleasant ho le maling himeelif. Dowe like to upset the comiort of our friends and relations? Of course
wo don't But let us be careful leat, without inwe don'h. But lot us be careful lest, without in-
tonding it, we are making the atmosphere of our homee uploesant. Now let us look ther side. Think of the sunny people They come down amiling in the
morning, and all the little annoyances of the day
gives us to do is great, and all other work is amall. You do not know how the kindness which seams
so trifing may reach o brother or sintor and draw
them so nom noary to Ohriet than a hundred sermons
them night, Your daily life shows moost certainly to
mity those who live in the same houge th
reailty of your religious profesion.

The days in which you find most opportanities for sacrifcing your own will for bearing
patienty the littlo things which night fret and worry you, are like good growing weather for the
character, Welcome, then, the itite mente and worries, for they will, if rightly used, make you pationt and strong to endure wor
larger trials are sent to toest your character.
"I am glad to think
not bound to make hto world go right;
With oheerfal heart, the wori that God appoint
That He can hold His ownilitini Him' take
His will abovethe workie sendeth me,
To be my ohiefost good."

- Saviour, Is it for Mop


Behold Thee in Thy beauty,
Bohold The foo to tace,
Behold Thee in Thy
Benod Thee in Thy glory
And reap Thy rillor grace;
And be with Theo forover,
 MINNIE MAY'S DEPARTM'T.
Jonnny on Easy Writing
Idon't boliove'twe herd to do
Whan


Tho word must minan nime:
If one thet will not Ro.

A Point of Honor.

A reporter called to a little bootblack to give
im a ehine. The little fellow came forward rather him a shine. Beore he could get his brushes another slarger boy ran up and, calmly pushing the little
lane aside, said, "Here, you go sit down, Jimmy !" one aside, said, "Here, you go sit down, Jimmy!" he considered a plece of outragoous bullying, and sharply told the newcomer to clear out.
"Oh, that's all right, boss," was the re
only goin' to do it fur him. Yousee, he's bin sick in the hospital, so mor'n a month, and can't do a lift when we can
ing to the smailer boy ? asiced the reporter, turn"Yes, sir"" wearily replied Jimmy, and as he looked up, the pale, pinched face could be seen even
through the ditt that covered it. "He does it for me if you'll let him."
plied the brush the reporter And as the bootblack "You say all the boys help him in this way?" "Yes, sir. When they ain't got a job themselves, and cimmy gin't onery strong yet, ye see." heips him, carcentage do you charge him ona job?"
"Hey? pereried the youngster. "I don't know What you mean, "I mean, what part of the money do you give Jimmv, and how much do you keep out of it?"
"Yer bet yer life I don't keep none ; ain't such
a sneak as that."
a " "So you give it all to him, do you?"
"Yo you give it all the boys give him what they
" on his job. Id like to catch any feller sneaking get on his job. I I would." catch any feller sneaking the urchin a quarter, saying, "I guess you're a pretty good fellow."

A Summer Scene. This pioturesque scene might aptly be named "A Study in Foliage," so rich are the
xquisite combinations of light and shade. The stretch of water, with the reflected xquisite combinations of light and shade. The stretch of we
hadows from the banks, adds much to the beauty of the pieture.
ail to ruffie them. They form a habit of doing the
"little kindnesses" which, more than anything else
make the indoor sunshine of one make the indoors Bunshine of oure than anything else, The
flower gathered for the breakfast-table, the "esh lower gathered for the breakfast-table, the "cup cheery word or laugh, the filling up of the woodbox or the water pails to lighten someone else's
burden, -little things like these, how they burden, -little things like these, how they oil the
wheels of life and do away with the jolts. Why wheels of life and do away with the jolts. Why
shouldn't the farm wagon be fitted up with pneu-
matic tires? The best part of it is thet matic tires? The best part of it is that the one Who makes things easier for the rest of the family always "more blessed to give than to receive." Try it for a day or two, and see! Frorget your own little worries in trying to give pleasure to others.
Unfailig good-humor goes a long way; and a real eympathy antering into the feeling way of onthers,
shoula be cultivated by anyo who should be cultivated by anyone who desires to play the part of a ray of sunshine and gild the dark
corners of life. If any members of the household are old, and perhaps rather neglected in the busy
rush of work, there is always a chance to pay them the little attentions which they appreciate so much it is very hard, after a busy life, to ind when on grandchildren find one in the way; or, if not really
unkind, yet never think of including grandfathe unkind, yet never think of including grandfather
or grandmother in the conversation. Don't spend or grandmother in the conversation. Don't spend
all your strength in dreaming of the heroism and self-sacrifice you are capable of if only the oppor-
tunity would arrive. Great things we would like tunity would arrive. Great things we would like
to do, small thing we may do. Wait! What are to do, small things we may do. Naing and what are small things? We know what men consider great and small, but surely our ambition soars higher than the deqire to please
men. We wish to offer to God a gift which He will men. We wish to ofier to God a gift which He will
feel is worth accepting. What ghall be? Shall
we neglect the little daily duties which He has We neglect the little daily duties which He has set
us, and do (or dream of doing) something great
which is not required? Surely the wort
nerson indeed, of little use in the world, and of ao use whatever in helping others.

$$
\begin{aligned}
& \text { No use whatever it is far easier to have courage in a great } \\
& \text { Now, } \\
& \text { crisis than it is to have the same in small tempta- }
\end{aligned}
$$ crisis than it is to have the same in small tempta-

ions. We have scores of examples of men who held to their opinions in spite of the greatest opGermany, of John WYcliffe in England, of John Huss in Prague, of the Scottish Covenanters. courage in great crises, and we should do well to
mitate them ; but it is more likely that we women will be tried in smaller matters - in what would appear trifles. Now, cowardice in trifles is a com-
mon failing in social life, touching nearly everyone, mon failing in social life,
One thing a woman finds it hard to confess is having a small purse. How often we would fain appear richer than we are, and spend our money on
things unnecessary, just because some other woman does so-and all because we are cowards and do not like to be behind our neighbors. Perhaps the "other woman" does it for the same reason. Why cannot we all be courageous and say firmly, "No cannot afrord that? People may smile, or even
laugh derisively but it is far, far better to bear
sneers than to be dishonest. And, indeed, the sneers of those persons are not worth minding though we are all human and cannot help feeling to these people we would probably find that they were deep in debt and living in style off their
creditors. My dear nieces, would you not far creditors. My dear nieces, would you not fa
rather ride in your own old wagon than in a hand some buggy (I do not like that word buggy, it is
never used in good society) unpaid for? I would Of course, it would be delightful to have a
fine carniage to drive about in; but that is
for courage, and she will imitate the
timid snail by drawing herself, as it
her shell at the least hint of danger,
My dear Nigces, - talk this month on
Let us have a one of the social virtues. Suppose we
choose Courage. That is a social grace choose Courage. That is a social grace
which is ene of the most important factors in human life. Picture two persons, one without this virtue and what a
one
difference there is between them! difference there is between quem
The former vill not be conquered.
Whenever any difficulty occurs she Will rise to meet it, call courage to her
aid, and fight the obstacle to the bitaid, and Che There may be-nay, proba-
ter end.
bly there will be -a hard, sharp tuesle; but she has a grand weapon to help
her, and with its assistance she will Win the day. But the other personappears very different. Let her come
face to face with some difficuly and she will give way at once. She will
say: "There is no use in trying to say:
surmount this, for 1 simply cannot.
What must be, must bes so Ishall just resign myself, to my fate, and bear it
meekly." Not much resignation there, meeky. Not much resignation there, and weaker every time there is need and weaker every time there is need
nve 15, 18 m
THE FARMER'S ADVOCATE
there the courage comes in, and possibly the nice Another small social temptation is to act or ot the courage to stand up for right against rrong. We do not like to be singuiar; but we nust have afraic to venture an idea lest we might give ofience. Of course, I do not mean that we are to the only right one-not at all. Euryone has, should have, her own opinions, and we must espect those of others; but others must also hem, making sure in the first place that our ideas re right and good and upheld by our conscience.
We require courage in our duties, in our pleashabits. Some girls are ashamed to be seen wielding will engage in doubtrul amusemente because they are not brave enough to sayno;-thesewant courage in pleasures, Anc we must be very careful about we cultivate, as well as the fashions which we follow. All these require courage, and sometime as great in its way as the courage displayed on th
Another thing we dread is ridicule, and which of us can encure that? Many a one will undergo times we are subjected to this from people who now very little-perhaps it may be their ignorance
of "the correct thing" that makes them laugh, and that makes it all the more galling to us, But
"they laugh hest who laugh last." So cheer up dear nieces. Keep a stout heart and do not lose courage for one moment if you can help it. Do you know that conurage is derived from the Lat heart was considered the seat of courage; so when we say Keop up vour heart, that is just anothe way or saying "Keep up your courage" Let nul in some degree to improve and elevate society. In we follow Charles Kingsley's advice we shali do
well. He says: He sood, sweot

Your loving old auntie,
Minnie Mat.
Acknowledgments from Winners in the
Puzzie Competition.
Up to the time of going to press we had received cessful competitors in the Great Canadian Puzzle competition, whose letters speak for themselves As was announced in our June list issue, one of the letter of acknowledgment has not yet had time to
reach us.
To the Raitor Farmer's advoonis:
DEAR SIR, - I have reooived the gold watoh which 1 wa
 ceord itis making so for. I Iammor think, Juetily proud of it
 Alibitr MoArthus.



The Greatest Human Oddity the World Has Ever Known
Jemmy Hirst's career is perhaps the most amus ing and extraordinary in human annals. This od dity of a man lived to be ninety-one, alcer a He was born in 1738 and died in 1829, and was buried in a srotesque coffin of his own construction, his in accorve by twelve old maids, preceded by a per hio grave by tweive ood maid. preceded oy a percliffe, in the Weat Riding. From his very boyhood he was an oddity. He was clever get on the back of a ow, tie a piece of twine to the ring in her snou un a nail in the heel of his boot to act as a spur and gallop her round the yard. His greatest succee orm various tricks, and he broke it to bear the saddle. "Jupiter"-the name he gave the buerebelled against the saddle, but Jemmy conquered great amitusem, and of perwarde ronerally, eppecially when he trotted into Snaith on market days on the bull's back. He rode out regulariv with Lord Beau mont's foxhounds, well as to run.
Not only was Jemmy Hirst odd in respect to his
pets; in his person he was one of the strangest ig He poen. nine feet in circumference; a rabbit-k'in jeckser, waistcoat made of the skins of drake's necks with
the feathers on, red stockings ; his breeches were of the feathers on, red stockings; his breeches were of
Itings of yellow, blue, black, and red, plaited to-
boots. by his housekeeper; and he wore yellow Jemmy made many curious inventions. He made himseir wings and cried to , He invented a mindill, ande a marvellous carriage to which he fixed what was the firs Lord Wharncliffe used to be among his guests, and Jommy is said to have given a very fair enter tainment, and to have ailiI., hearing of his eccentricities through Lord Beaumont, invited him to London. Jemmy wrote in reply that as he was then not accept the invitation for a month. At the end that perioa he set out in his wonderful carriage. avorite Andalusian mules. In his marvellous at hire he presented himself at the Court. waiting for an udience, and at sight of Jemmy was convulsed with laughter, and chaffed Lord Beaumont about is surage compa.
lietened petiontl OF A DUKR. Jemmy listened patientiy for a momant ond
and then seizing a tumbler of wator that atoon on
he sideboard, he dashed it in the Duke' the sideboard, he dashed it in the Duke's face, roclaiming that the poor man was in nyetericis nose, and shook him, pretending that he was doing his best to bring him round from his fith
Jemmy was very familiar with the King, shot hands, beying, "Kh, I'm glad to see thee such a plain owd chap. If thou ever comes to Rawcliffe are good wine or a sup of brandy and water at any time. good wine or a sus much amused.
Recipes.

Rub 2 ozs, of buttor into 1 qt, of flour, then zadc teaspoonful of salt, 2 teagpoonfuls of doukg inix quickly; roll out about one and one-halr inche pan, and bake in a very quick oven or about 3 minutes. When done aplit in halves and spresi each hair lightly with buitter; put the lower hal
on the serving dish and cover thickly with strain on the serving dish and cover hea ay wiweetened berries, the top and spread this also with berries Serve at once with cream and unga

GINGER cooktes.
One pint of molasses, one coffee cup of lard and and boil two minutes. When nearly cold add thre tablespoonfuls of boiling, weter anc one email table add one tableapoonful of ginger, a littlo nait, a littlo Cayenne pepper, and flour to roll.

## The following prives aro offered overy auatter, beginning






 pon, Mark Printer
Comjor orna oent.
Pakinham, Ontil
(Characters of Walter Scott.)
 2-WORD SQuarm

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\end{aligned}
$$

## s.-Charadi

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& \text { muny inem } \\
& \begin{array}{l}
\text { That, if sich a triok again I would do } \\
\text { Owipings } \text { woild got one or two." }
\end{array}
\end{aligned}
$$ ard. SQuars Word 1. Romard. To mathre.

A monghice modification of a verb.
2, 22, 12, 8= warmth.

6. - Nonarical himama.
(Composed of 17
lettore.)


My 8, 5, 15 meine nothing.

## 

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Answers to May 16 th Puzelees
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13.- Cordililere
1.- Dollarl ("herd "ahould haverene "hera")


 "Pansy" and " Facex"

Counnict Orin.


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 vivertiement send some others plece. When you for







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