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Agricuitural Exhibitions. Now the long evenings have set in and the busy time of harvest, of attending the exhibitions, we should devote a little of our time in looking back observing what has passed, and endeavoring to lay our plans so as to profit by our observations. To do this to the best advantage is to exchange out thoughte, to impart to others our ideas and thus hope to hear the opinions of others. Each one may impart some useful lesson from which others may learn. Al will not see with tho same eyes. Open and full discussions are the only ways to arrive at correct conclusions. We purpose making a few remarks. Every person may now thes of jurnal open to them to express their ideas on any agricultural subject that is intended for developing and advancing the interests of agriculture, and those who really desire the agricul tural interests to be oncouraged cannot ask a better opportunity and can have no better medium. Ther probably may be some that do not desire open dis cussions, and they may even use their influence to supress such discussions; but we cannot that such a couse tons to. Agricultural exhibitions are doubly beneficial to Carmers: they are the farmer's school, and are uselias the farme haly. day and it is highly beneficial to them to have one, than in attending exhibitions-that is, where exhibitions are properly conducted. 'This word "properly" implies much, and to what extent it may with propriety extend in connection with theee exhibitions is a debatable question, one that we hope those that take an interest in them will duly consider and express their views upon. We take the Royal Agricultural Exhirint he model one, taking an We do not pro ments its is in no way under Government control; receives no Government money; has no useless expenditures; no other purpose to serve but the advance ment of the agricultural interests. It is honored and respectea, and a prize gained at it implies real merit and passes like the British gold all over th world. This exhibition is held under ca of immense size, and it is perambulating
Despite the numerous kind invitations sent, we were unable to attend more than four of these ex hibitions. The length of time occupied by the $\iota_{\text {wo largest in Ontario-two weeks each - prent }}$ we believe, will be abandoned. We fear that per sons more interested in city interests than in the interests of farmers or manufacturers had too much weight in inaugurating this change to two weeks.

A few large exhibitors may still favor this plan, as it tends to keep small exhibitors away, leaning better field for those that exhbit; but we think it best to encourage the small exhibitors as well a the large.
At the township agricultural show held at Mt. Brydges, there was a prize given for the finest baby. Of eourree it drew attention, caused fun,

ricultural exhibition.
We visited the County of सlgin Agrieultural Exhibition, held at St. Thomas, and it was a good
show. One of the directors of another exhibition met us and said he did not approve of having thene betting showmen, aunt sallies, shooting tabes, eto. on the ground. It tended to the demoralization of the young, and detracted from the utility of the show. But what appeared most remarksble wa that one of he principal directors of this very show had made very similar remarks to us but a few years before, when oonversing with us on the fair grounds in London where the same kind of ex hibits had been on view. Perhaps the third oomthe question arises-how far should these outside attractions he allowed? It is clamed that the dog show, the mernaid show, the female band show, etc., all helped the funds of the Provinoial Association; but whether they are permanent bene fits is a question that may be asked. For instanoe this mermaid exhibition we believe to be only a skull and arms of a monkey, with woodem or guttapercha ears; a littie red human hair sucuir on the skull, and a fieh-skin and thii or repre whe well put together and excited the curionity of thious. put together and excited the cariomhibitor. Of course the members of the Provinoial Board may have thought that by getting a good sum from the howman for a small space of ground, it was clear profit; but whether they should descend to such means is another question. It is axid the regatia, tc., eclipsed the interest in the agricultural exhi bition the first week in Toronto. It was also maid hat the attention of the directors was more de. frst Provincial Exhibition held in Ottawa, and wes elaimed that the said exhibition was a grand uccess. But the next time the Provincial was held in Ottawa the loss was such that it nearly rined the credit and honor of the Ansociastion, nd gave it such a shock that it otili remaina a question whether the present Board will outlive another sitting of Parliament.
It might be well to discuss this tubject. We afo inclined to the Ylan of keeping pretty clowe to one business. There is enough in agriculture to make agricul ural exhibitions a success. We had better bot interfere with Barnum. There is a time and a place for all things.

## Legislative Agriculture

Probably the first really important step taken by our Legisiatare intended for the advancement of agriculture, was the establishment of the ProVinciat Board of Agr cultare and Arts. The inception of this Board was brought about by a few ener etic gentlemen of honor and ability. Their frot ateps were taken without Government aid; they subscribed liberally themselves; they devoted their time and abilities freely; they obtained volpntary contributions, enlisted the aid of Americans, gond up an agricultaral exhibition in Toronto which was so surcessful that the Govern. ment took it up and fourded the Provincial Board and the Provincial Exhibition. They both inoreased in popularity and in utility for many years, but poor mortal man has always been falliower increases a greater opportunity is afforded to use such power for selfish purposes rather than for the public good. N honorable person will pretend to deny the fact th this has been the cause of the general complaint made against the Board and against their manage ment. Many of the members of the present Board are undoubtedly honorable men, and desir to do their duty; but duty may sometimes place one ther give and receivabe posicion. People would whom they may be working than make exposu and cause hard feelings. The original Board has expe increasedin numbers, with the object of giving more power. The increase in numbers has not been objected to by the members, and the Government has laid great stress on the recommendation of this Board for increased expenditures of the public money. The numerous grants, and the large proportion of those grants that have been absorbed by the members of this Board in so many ways, should cause us to consider whether the re-
ceivers and payers should fill the same office-rather, have we not be creating an army of cipients and giving them power to do as they choose in regard to culecting money, information, otc., and asing the.e influences as they choose Should we not cussider whether such sums of money as were granted fur the use and encourage ment of the plain, practical farmer, have not bee used, perhaps inadvertently, against his interest? It has now become plain to every ont that changes must take place, but what those changes should consist of should not be too hurriedly deoided, as many changes heretofore have been. Parliament for measures to be brought before the public and openly discussed. Some one, at least, of all the members should openly and clearly express themselves both in regard to the past and uture of this institution in some of the journals evoted to agriculture.
It is our opinion that very little good is done by grafting on the end of an old overgrown ine. This is what has beetu attempted for years past. The vine had borne good fruit; would it not be better to give it a thorough pruning both in root and branch? The husbandman would prefer this course rather than to dig up and plant an unfruit. The root is good, it is the suckers that have vergrown and sapped the fruitful stem. The mere advocating of expenditures is easy and may suit many, but accounts of past expeuditures should be first satisfactorily explained by any" one advooating more expenditure.

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## English Letter No. 31.

## [FROM OUR OWN CORRESPONDENT.]

Liverpool, Oct. 5.
Taken on an average, there $n o$ very grievon unfortunately, we have no regularity in th weather except in one thing, and that is its uniform irregularity. The pouring wet of August usually one of the most settled months, has been succeeded by a September and early October of great warmth and brilliancy, and in Seotlatid and the north of England the farmers have been able to get in their cereal crops in fairly good conc ition. The soot crops are almost uniformly good, and the pastur
ful.
Trade matters between this country and the Dominion pursue an even course just now, with litle or nothing calling for special notice
The Hon J. H. Pope, your able and practical some important Additions, has hately been making up to the work, to his splendid herd of Poll Aberdeens. These animals will form an exceed ingly choice lot, and leave to-morrow by the SS. Dominion for their destination at Eastriow. This fine addition to the Eastriew herd includes the following: Charmer III, bred by the litul Mr M'Combie, of Tillyfour, and purchased for on hundred guineas at the recent sale of the Marqui if Huntley's stock; Mary of Balquharn, bred by Mr. Adamson, Melon; Princess of Montbleton; the Beatrice of Canda of Endovie, Annie III Prin Combie, Prid ada Lass.
da Lass.
Shorthorns, judging by recent sales, would seem Pole Gell, one of the fashion. Mr. Chandos, country, recently sold his herd by anction, this seat in Derbyshire, and though the company in cluded the elite of the Shorthorn society and other nowing ones, and the animals offered included epresentatives of some of the most celebrated mailies in Shorthorn history, the highest price veached was 360 guineas, and the average was a very moderate one indeed. On the other hand, Encland, ind will Mr. R. Gibson, of Ilderton, is nonth with a very valuablewards the end of the or some of which he has been paying guiterns, prices-one animal figuring, I believe, for ancy thing like $\$ 10,000$. Of course, these animals are real " cracks.
I am vely glad to notice a number of Canadian bayers in the market for Shropshire Down rams. reach Canada in will be hurried forward in order to the cattle trade are ruime the season. Prices in alive and dead; but for mutton are good. Public men speaking on agricultural topics in this country lately have been pointing to the production of British and barley, as the sheet anchor of the able competitor in As Ganada is their only formid adian farmers to have their wits it behoves Can to give special attention to the 1 mutton and barley.
This week a number of cattle have arrived from Canada by way of Boston, and will, of course, have they came by Boston is obvist. The reason why Boston is ouly $\$ 6$ per head for cattle, as compared with $\$ 22$ from Montreal ; and 4 s 6 d for sheep, a compared with 8s to 10s from Montreal. Again, as a set-off against the slaughtering clause, the great $\mid$ railway companies here are charging $2 \overline{5}$ s per tou
for dead meat shipped to the London market Whist frish and home beef has to be paid for a 50s, or exacity double the former rate. This is a will The chitef feature in the
Tharoity of first che harket is th shows up and down the country, as well as the difficulties of would-be purchasers for foreign and colonial markets, conclusively prove this: So many good animals have been sold to leave the country that a real want has sprung up at home. Canadian dealers are anxious to buy now in order that the sires may be got out to their destination in good time for next seaison.
Messrg, Woodall \& Co., frait merchants of this oity, recemly sent out a circular to the tiade to inspect imports of fruit, tomatoes, melons, etc., packed under the new patented process of Mr. aeorge Cochrane, of Montreal. Great surprise was expressed at the complete success of the rocess. A great trade is at present being done in packed in barrrels space and frequent injury to a whot bairel from the decay of a few. In Mr. Cochrane's patent the ruit is first subjected to a process which arrests any tendency to decay, and it is then packed most solid, effecting a great economy in freight, nabling Canadian fruit to compete on at least equal terms with the Europear productions. The pecimens recently arrived appeared as firm and fresh as if they had just been take off the vine. The invention "Waicates a complete revolution in already important indastry in the extenision of an already important industry in the warmer sections The "Foit"
The "Fair" Trade movement is making proattacks which are made notwithstanding the fierce from quarters many and mighty. A promoters movement, not without its simicion is that seems to be independent of any political limits but to have amongst its advocates as many Liberals and Radicals as there are Conservatives and Tories. If Lord Beaconsfield were alive now he would wait till the movement had made a little more headway; he would have taken it under his "pro tection," and educated his wavering followers to the necessary pitch. It remains to be seen how Salisbury and Northcote will deal with it. O Bright will devinte cre inch from ticket. As pointing to a with the colonies, I cannot but regard the move ment as fraught with a meaning of the utmost significance to the Dominion.

## My Silo.

by r. SHAW WOOD, WOODHOLME, ONT
In the year 1855 or 1856, I am not certai which, I was in France about to take the train on one of the roads leading through the vine country even third class; had only travelled in the States, insisted on first class tickets in this instance. I yielded; but on reaching the train I found a solitary old gentleman, apparently a General, in the first. I told my companion he could go in the first, but that, as I was travelling to see the country and people, 1 should go in the third, which was of open seats on the top of the first class carriages. The guard, fak.ng my first class ticket, 1 mounted, and there French, and a very jolly was seated by a German gentleman, who had travelled very extensively and possessed a vast store
of information, which he was ready to give his Passing through the vinets with what I thought, peculiar collivation of peack remarked on it, and was laughed at and of peas. those were vines, They were trained to stakes about three feet high, and though perhaps a i hundred yeara old, were not allowed to grow higher or bear more than half a dozen bunohes of grapes, completely upsetting my ideas of vineyards of high rellis worf, forming arkors coverced swith luxarious vines, the righ clustere of grapes waiting to be plucked by the dark-eyed beauties, oto of agriculture, alluding to various and the subject agricultare, alluding to various customs of difmethod of preserving maize, mens mentioned coulent plans in EPag in ccubed it thus:A well drain
A well drained knoll being ghosen, a long pit wa ame depth. This is fild the bottom and of the odder, tramped This is filled with fregh cyat green and then the clay heaped oyer and well packed on it. It is fed during the winters gaming oqt greenish-brown mass, of as sour but pleasant odos and greedily eaten ny the cattles
I had a rivid remembrance of sourkraute. Ses delightful to German taste and tithoght (that although it was a mode worth nofing, yet to nse, it wo ctable Engiso notgh catte to eat, ith, as no se
Spme, years Aftero in gopming to Ganada; ; fifound the question of, yinteripg stock gryery ferriaus orie mined to try it on removing to this neighborhood In 1877 T raised a quantity of tohl-rabi, and think ing it a pity that the leaves should be wasted procured twenty hogsheads, which a sank in the ground, filled with the feayes galted and tramped in, and covered with boards, on which the clay was
put to weight them and exclude the air. About put to weight them and exglude the air, About
four of these were used as feed, but not finding it four of these were used as feed, put not finding it satisfactory, as the bulge of the casks prevented
the covers being close enough when settled, the re the covers being close enough when settled, the re-
mainder were nt mpened until 1879, when mainder were nit opened until, 1879, when
I commenced to dia the pit for my present silo. In dôing this we, took up the casks and found much of the fodder in good
condition, which convinced me that it would condition, which convinced me that it would
answer if properly done-that is, well closed and answer it propery done-that is, well, closed and
sufficiently pressed. My pits were dug but not completed until 1880 . I had, from reading, found that it was necessary for complete success that the fodder should be cut very fine and very heavily pressed.
Goffart, having a low wet situation, was com-

pelled to build his silos above ground of masonry, | pel.ed to build his silos above ground of masonry, |
| :--- |
| laid in and plastered with Portland cement. The | laid in and plastered with Portland cement. The maize eut wery fine; well tramped in; covered with plank closely fitted, bat not united, which were

covered with clay to render the covering air tight, covered with clay to rende
The Americans who have adopted this system usually choose a side hill; also using masonry laid with water-lime, and in some cases using rubber screws to give the required pressure.
Mine is a pit thirty-two feet long, ten wide and eight deep; divided into four compartments by space of fifteen inches between the boarding and bank filled with concrete; the bottom of clay; covers of double boards bolted on heavy frames,
titted as close as the raising and lowering will titted as close as the raising and lowering will
allow; no other means of rendering them air tight is used. They are weighted with as many logs as

The maize, "Ohester County Dent,", a variety that does not mature in this latitude, but gives a large amount, of fodder, is mowed when Hlowering specially made to to to one igth of in Two teams mow haul and cut four loade a day This is put in one compartment, the oover lowered and weighted, They are thas filled in succossive layers, requiring about forty loade When opened on the firat of January the fodder was of a greenigh brown appearances a a deoidedly alcoholic odar, resembling brewer's grains. A layer, farnishing a week's sapply far thirty head of cattele, was taken out, put in a ctose feed box or room, and underwent a further fermentation. The covers and weights arei replaced. I would deep pit.
This mode of preservation is eppecially suited to maize, the fermentation rendering its stalky sab-
stanoer eoff and natritious, as alao the chemical change thes constituents undergo tot the yield also being larger than :any other fodder it increases
the production of mil, , but Ioubi if it is a beef
producer, although it will carry the stock well producer, although it will carry the stock well a vers, important matter in Oanada.

## Why are Ewes Shown in Pairs:

by Joti d. skele, kDomonton, ont Having been called upon in several cases during the late fair season to act as judge in the sheep fong held, namely, that there is no good reason why ewes should be required to be shown in pairs and not singly, as in all the other stock classes Would it not be just as reasonable to require that sows, or cows, or mares should be shown in pairs? It'is almost impossible to find two ewes that are equally good, and in passing on such exhibit judges are compelled to ofiset the merits of aperior animal by the defects of its companion. And so it often happens that the best individual nimal in the show does not"get Peven a second rize, while, if shown singly, she would have won best ought to win every time.
I have mentioned this matter to a good many of the exhibitors of sheep, and they have almost in. ariably approved of the change suggested as being anvenient for exhibitore ine it would be more be more satisfactory to jadges; for it is much more difficult to decide upon the best two than upon the best one, especially if there is an exceptionally good one in one of the pairs. The only objection I have heard, and it has come not from exhibitors bat from officers of the fairs, is that it might re tion. But now that at most of the larger fairs prizes are offered for the best flock or pen, of say one ram and six or more ewes, exhibitors competing for these must bring out a good representation to have a chance of wioning a flock prize.
The Illinois State Board of Agriculture, some four years ago, at the request of the State Wool
Growers' Association, adopted the plan of giving Growers' Association, adopted the plan of giving
prizes for single ewes, and it gave such general prizes for single ewes, and it gave such general
satisfaction that they have continued the rule. The Kentucky and the St. Louis Fair Associations also give prizes for single ewes. The poultry associa prizes for single birds, deeming it unfair to hold even a game cock responsible for the plainness or
fanlts of his hen-wife, or vice versa. I respectfully submit this idea, the result of ex-
perience and observation, for the consideration perience and observation, Yor the consideration of
breeders and exhibitors, and also of managers oreders and exhibitors, and also of managers of
agricultural societies, hoping that if it meets their approval, they will take the necessary action to
secure its adoption.

## Pleuro-Pneumionia

The U.S. commissioners appoipted to investigate the causes of the propagation of the cattle disease House, Chi puro-pneumonia met at the Sherman tions relative to the disease were read, bat tit was noticeable that all of them were from treastern points. In fact, Dr. E. F. Thayer op Weegt New. ton, Mass,, as well as Prof. James Law of Cornell University, stated freely that such a disenase as pleuro-pneumonia did not exit amodg the
westorn cattle. They say the diseate is contat hut, that all investigation showe /thatitit is brought here by foreign cattle. The where the disease has penetrated is and even at that point there was but one while there are doubts even there that it wan a genuine case of the dreaded disease. Prof. Law is firm in the faith that the disease if oontagious,
however, and in this view he is endorsed by hia associate. As prov, view he is endorsed by hal that onder the direction of the Governor of Masel chusetts, stables thoroughly ventilated werr built, from the animbe gentlemen cannot bepresoely introduced. The or close quarters have the to do or close quarters have the least to do with the
disease, and would impress upon the publio that the thing to do in the premises is to top the probable spread of an imported infection D Thayer says that he has no statistios upon which he might state that any particular breed of cattle brought the plearo pneumonis to this gonntry, but he considers it of the utmost importange , that, it ravages thould be checked at the earlieet pganible moment. The gentlemen visited the Stook Xande and endeavored to impress uppn the dealare the
fact that the cry of diseased cattle from the mentioned is costing the of from the gause $\$ 2,000,000$ per annum in England and lase the 2,00, 000 per annum in Eag
A report has recently come, from Washington, has failed in its object; having very limited uean they endeavored to obtain information from the State authorities, but found them vory apathetier If the above dreaded disease ham not already gained a foot-hold in the Western and Northwestern states it is passing strange, an thopsoinde of cal ves are each year shipped from the eastern ections to the west, or non-infeatod Stateg, and at the present tim has been going on for years, edge, has been placed on the trade, and an of no reason why thousande more will not shipped from the infected to the now-infected States this fall. If, as the commisaiondrs any pleuro-pneumonia does not exist in the west to. day, what proof is there that it will not exist there month hence? Some Canadians are in favor of importing cattle from the west into the Dominion, but we utterly oppose this. Weare quite free from but if we deal with our American negious nature; long can we hope to remain so? anighbors how. to be free if we import animals in which we reason to suspect the seeds of the diseme existes oris may, be lurking for aught we know? We are in favor of the Canadian Government exereising at all times and placem the moat rigid prohibitory measures against American cattle. If the oattle exported from Canada were aubjected to the samb : conditions as those exported from the United States, the Canadian farmers would lose at leant $\$ 20$ per head on all exported to Eugland.

The attention of our readers is called to the article on Stilton Cheese in the Correapondence
Department.

Live Stock at the Provinclal Exhibition.
In the sheep department (the show ing
In the sheep department the show of Cotswolds must have been more animals on the ground than
there were entries, a number being brought for there were entries, a number being brought for
sale and not for exhibition, and, therefore, ware sale and not for exhibition, and, The animals exhibited were of
not all entered. very saperior qual
Mr. Jarnes Russell, of Richmond Hill, Ontario, six rams and seventeen ewes of various ages, the majority of them being imported. The entire lo
were well fittedfor show. His aged ram was an oxeoedingly large and heavily-wooled animal with
a good constitution He won lst prize in his class this year and the samed last year. M boen prize winners in England and three times suocessinal competitors at the Ontario Provincial including this year, when they won st and 2nd
in their section; his yearling owes won 2nd,
On em earl On a yearling ram he won lst. This animal ws
recently imported from England and his feet an logs were sumewhat sore from the voyage
From this cause he did not appear to advantage He is an exceedingly good apimal-large, hand
some and well-wooled, was bred by Mr. Swan wick, of Gloucester, England, and was recently imported who sold him to Mr. Russell for $\$ 275$. Mr.
Ont., whe
Rusellis flock won wo flock prizes (all that wer Russealls flock won
offered in this class).
James Main, of Trafalgar, also exhibited seventeen very choice animals, ali of which had recently
been imported from England. The lot consisted of two yearling rams, both of which were prize-
winners; three ram lambs, which won 1st and 4th; siiz yearling ewees, whioh won st and 3rd; two
uged ewes; and four ewe lambs whioh were awarded aged ewess; and four ewe
seocond and third prizes.
${ }^{6}$ Mr. Thos. Teesdales. of Concord, Ont., exhibited seven head, all lambs, and thought the number was
not large they amply made up for their lack in not large they amply made up for their lack in
this respect by their superior quality. Seven as this respect by their superior quality.
good ambs from one flock are seldom expert might pick the country over, visiting al
the best flocks in it, and we feel doubtful if many lambs of equal quality would be forthcoming. They were very large and the quality of their woo
was exoellent. At the time the show was held was exoellent. At the time the show was held
some of them would weigh quite 200 pounds and some of them would weigh quite 200 pounds and
none of them much less.
exhibitor on his farm in Yey were bred by the none of them mich fass. in York county, and w
exhbibitor on his farm
may therefore claim them as a Canadian product. may therefore claim them as a Canadia Thoy were successfar in tre ehter, Ont., had on ex-
Mr. J. Franks, of Dorchester, ont
hibition fourteen head, which were not highly hibition fourteen head, which were not highly
fed, but were a very usetul lot. All, with one exception, were home-bred.
Mr. P.
display of fifteen head, and won a few prizes. fourteen head, some of which were imported. This flock was not highly fitted for exhibition, but was in that condition which is most profitable to the
general farmer. Mr. Ross' entire exhibit was good, general farmer. Mr. Ross' entire exhibit was good,
but especially worthy of mention were his yearling rams and ram lambs.
Messra. F. \& H. Shore, of White Oak, Ont., had
iourteen head on exhibition, five of which were iourteen head on exhibition, five of which were
imported from England, and the remainder were bred by themselvess. TThis lot was also in what
is known to breeders as a half-fittedicondition, and is know, like Mr. Ross', a very profitable kind of was, ike Mr. Ross, a very proftable kind o
sheep for farmers who are dealing in long-wools to
buy.
 Clinton, Ont., six, all of which were nice animal but not fitted for exhibition.
Leicesters and hincolns

Why these sheep are divided into two classes we
fail to see. Some tell us that the Lincolns are a fail to see. Some tell us that the Lincolns are larger, coarser and is a general supposition amon the farmers, and in reality it is true ; but in this country the two breeds have become so much alik
that in many cases at our shows it is impossible for a person who doell whether the owner calls them Lincolns or Leicesters. So much alike are they
that some exhibitors, who have but one flock of sheep, enter in both classes, and show their
coarser sheep as Lincolns and the finer ones as

Leicsters. Some even go further and exhibit in
the class where there is the best chance to win a prize. We believe that if there were but one class in place of the two which now exist, the Associa-
tion would effect a saving and the country lose tion would effect a saving and the country lose
nothing. This year there were entered 184 Leices-
ters and 153 Lincolns. A number of very choice nimals were shown in the two classes, being better in
Mr. Andrew Murray, Clanbrassil, Ont., had on
Mhibition oxhibition twenty-seven choice Lincolns and won
fiteen prizes, including the flock prize. They fitern prizes, including the flock prize. They sidering the large number, this was, one of the
best flocks of any breed at the exhibition. best flocks of any breed at the exhibition.
Mr. John Kelly, of Shakspeare, Ont., exhibited Mr. John Kelly, of Sakspeare, Ont., exhinited ported and the remainder home-bred. This flock won eight prizes,
flock of Leicesters.
Mr. Wm. Whitlaw, of Guelph, Ont., displayed
fourteen Leicesters of the same family and won ourteen Leicesters of the same family and won
nine prizes. The last two flocks were very much alike in appearance and were a credit to their were large enough, of pood symmetry, and carried very nice fleeces. The yearlings and lambs were
arge and well-matured. Like Mr. Murray's they were also among the best focks on the ground.
Mr. Wm. Somers, St. Marys, exhibited twenty Mr. Wm. Somers, St. Marys, exhibited ires.
one large, strong sheep and took seven prizes.
Mr. W. Walker, London, Ont., had a very nice fock of seventeen, and was a rrize-winaner. This ack was also wolay.
a very good display. Hammond, of Brantford, Ont., ex-
Mr. Henry Hater
hibited twenty head. They were useful sheep, but hibited twenty head. They were useful sheep, but rather lean condition
Mr. H. Snell, of Cli Mr. Humphrey, four; Mr. Hall, of London, three; Wh. Wadham, Yarmouth; seventeen; and a few were not highly fed.

Mr. John Jackson, Abbington, Ont., exhibited
wenty-five head, five of which were imported rent England, and the remainder Canadian bred.
rom This exhibit was very fine, several of the animal,
wre of exceptional excellence. Mr. Jackson's were of exceptional excee second and two third
lock took four first, thre
tizees, including the special prize known as "The pizees, including the special prize known as "The
Prinee of Wales' Prize," which was this year given
年 for the best flock of Southdowns consisting of
en animals of various ages. ten animals of various ages.
Mr. H. H. Spencer, of isplay of twenty Southdowns, fifteen of which were imported and the remainder bred by the
oxhibitor. Mr. Spencer's herd made a very fine appaarance, and
three third prizes.
Mr. D. Perley, Paris, Ont., exhibited a flock which numbered twenty-four, al oreance They made a very nice bred. They made a very nice appearance. Though
not in high condition, they won a share of the Mr. T. W. Stone, Guelph, Ont., exhibitad two, and Joseph Salkeld, Stratford, Ont., twelve head, condition to be successful in the show ring
shropshire and oxford.
The Shropshires and Oxfords were shown in one
lass, and although the Board were made aware of the injustice of this course they could not be induced to make other arrangemather strange in cases
to the breeders. It seems rath where separate classes are not realy needed the Association should be so conservatulas is gone,
tain them for years after their usetulness and when new
so slow to act
so slow to act.
Messrs. Beatty \& Miller, Clarmont, Ont., exMibited twenty-nine head, the majority of which
were Oxfords a nd the remainder Shropshires. This were Oxfords and the remainder Shropshires. Thi
flock won the greater part of the prizes awarded to his class. Their exhibit was very good, especi
ally their Oxfords, which were very large and of superior quality, The entire lot qrriv.
England but a short time before the show. England but a short time before the show.
Mr. H. H. Spencer, Brooklin, Ont., exhibited a flock of fourteen Shropshires, all of which were also recently imported for England, and ank the ally his yearling hewes, yearling ram and aged ram.
Mr. Hodgson, London, Ont., had four very good Never at an Ontario
so many Downs exhibited or so many chang
hands, and we may kafely say that those shown were much superior to anything heretofore seen a Southdowns 107. Shropshires and Oxfords; 55 Although the Down exhibit was in every way superior, the flocks of some of theold and prominen
breeders were conspicuous by their absence prominent among those was the flock of Mr. Robt Mrominent among
Marsh, of Richmon Hill, Ont. Mr. Marsh, like
many others, objected to so long an absence from Marsb,
many ot
home.
The published prize list this year contained $\mathbf{n}$ class for these sheep, but, as a a number of them were broug to the
 principal exhibitor, his flock numbering twenty
three. As most of our readers know, these sheep ar three. As most of our readers know, these sheep are
small and produce a fleece of fine, short, oily wool small and produce a feece of tine, flock will average 12 lbs of unwashed or 8 lbs of washed wool per head, for which he receives the highest market price
For a long time the Merino breeders have claimed heary fleeces. Mr. B. is no exception, he say that his breeding ram last spring clipped 28 lbs. o,
unwashed wool, and in the spring of 1880244 lbs which was only eleven moothis' growth. Mr. Langton, of Sparta, and Gieo. Hood, of
Guelph, were also exhibitors in this classs" Mr Good exhibited an imported Frenth Merino Mr which was no doubt the best sheep of the breed on the ground.
The show of fat sheep was very gobd and Mr Gumbered twenty; and included seden Cots wolds, three grade Oxford-downs, four Southdown and one pure Oxford.down, and two grade Leices
ters. A few other extibitors showed some very ters, A ew athe Southdowns, We were pleased
fine Cotswolds and So
to see representatives from so many breeds tom to se representas
peting in this class
peting in this class,
In the section fo
In the section for aged wethers a pair of pure
Cotswolds won lst and a pair of Southdowns 2nd.
The Ist and 2ad prizes for pearling whethers were The Ist and 2ad prizes for yearling wethers we
awarded to Oxford-down grades; the 3 rd to a awarded to Oxford-dowp grades, the seols
of Longwools. The sweepstake prize for four bes of Longwools, whep was won three Southdowns and a
Oxford-down. Oxford-down.

## носs.

The number of hogs exhibited was not as larg
as in previous years but the quality was excellent as in previo was this the case in the Berkshire and small white classes. Among the large white hog there were several nae ones, but there were als some of inferior qualitl.
which to many Canadian farmers are a new breed, whice pretty well represented, but the majority o
those shown were not in high condition and di those shown were not in high condition and di not make as good an appearance as they would
have done had they been properly prepared fo
 entries; small white class, $105 ;$ Poland Chinas, 56
Essex, 50 ; Yorkshires and other large breeds, 48

The curculio of plum weevil is one of the abori gines of America. Dr. Fitch, $\begin{aligned} & \text { formerally enti- } \\ & \text { mologist for New York, says it is unknown in }\end{aligned}$ Europe. Bifore the era of cultivated fruits it sub sisted on wild plums, crabs and thorn apples, but
it now attacks nearly all tree fruits, and in ad it now attacks nean depository for its eggs wher its young are bred. The wound it makes for feed ing purposes will heal on most fruits when th
fruit is small, but when approaching maturity it causes the tender sorts to rot, plums particularly and where plums touch each other this rot is in fectious. This explains
rapidly when nearly ripe.
The "Chicago Herald" mention a strange horse disease which exists in Illinois it resemblos lock-
jaw. The muscles of the horses neek heome rigid accompanied by a discharge of mucuss from the nose. There is little or no fever, and a total in
ability to swallow. In making the attempt to d so the animals attacked will thrust their heads up
to the eyes in water. Several horses have died. An agriculturalist says that there is no sustance
that can be applied with so small a cost to a worn out orchard as lime. It promotes flowering and fruiting by the influence it exerts in evaporating and consenterating the sap, and that when lim
will not bring an old orchard into will not bring an old orchard into bearing
the probilities are that nothing will do so.

がaxaen aud (0xchard.

## Small Fruit Culture.

BY B. Gert.
It is a task not easily defined to state with pre-
cision just which kind of soil is positively best for cision just which kind of soil is positively best for
the different classes of small fruits. We doubt not that different results will be obtained by planting the same fruit on different soils, and much
more different by planting different fruit on differnt soils ; but to say exactiy which is the best fo obtaining the best results is a question for scien
ific and superior investigation. At a forme eeriod in our experience, we most decidedly hel oam, rich in vegetable ingredients and not to oose, was the best possible condition of soil for strawberries and raspberries ; but later on in our
course of fruit culture, and as our observations widened in these matters, our opinion came gradu ly to a wide and material difference of caste, and now we strongly lean to a preference for a strong
and well-drained clay loam for both these fruits, if not too much condensed.
One of our local growers has a small fruit farm established on just such a description of soil as
this last, and the results of his plantings are all that could be desired -plenty of pruit, and of fine quality. If there in any advantage in favor of the of wintering for on this soil the plants do not appear so liable to frost and heeving as on the clay siri, The Havor, too, may be very much finer in
fruits from sandy soil, but we most emphatically deny that the fruit may be either more or of bettor quality. Any of our clay loams, therefore, of proper texture and if thoroughly and systematic
ally drained, are clearly suitable for the successfu growth and deyelopment of small fruit plants and of the finest pogsible quality of fruit.
With thege preliminaries we will at once proSoeil for Smalf Fruits ; Its Preparation, Culture, sc. By small fayits we shall at present nuderstand to be meant our popaiar berries, as straw-
berries, rappberries, backbeerries, gooseberries, and curcants, and for bhir successfin culttre we shall prefer a medium elayigh loam of a dark color and cerumbly texture, and very rich in vegetable subsoil at the depth of from twelve to twenty inches from the surface
level, or, at the most, with merely gentle slopes to prevent severe washing frem heave and fre unaen rains The whole must be thoroughly under-
drained by laying at systematic distances hardburnt clay tile, two inches in diameter in the bore and from two to three feet under the surface These drains sart, according to the dryness or wet ness of the soil, and the whole laid with a careful reference to a good and efficient outlet. The mode of preparation consists in thoroughly cleaning th eto, as impediments to the easy progress of th plow and the cultivator. Before the planting is to a depth of ten or twelve inches by good plowing to ad subsoiling, and after cultivation during the entire summer, For the soil 1 am now describing
being in a virgin state and unexhaxsted, very
bition in but if the ground is worn out or in the leas depleted of its vegetable fertility, those artificia stimulants must be most certainly applied with
unsparing liberality. This application, in the main, must be made during the workings of the summer months.
The after culture consists, in the main, of a
thorough and constant moving and stirring o the soil to prevent the effects of summer drouth and the progress of the least tiny weed. point-the eradication of all weeds-must be mond
assiduously attended to from the beginning, and the success of the whole operation mand therk. Do upon the efficiency of this parely in the light of a not conse, but rather as a blessing in disguise, and go at them with a settled determination of will the culture of strawberries for market the plantin is generally proceeded with in the following man ner:--The ground being, as described, thoroughly or forr feet apart, entirely across the field, and $\frac{1}{\text { or for }}$ the plants set in those rows $1 \frac{1}{2}$ feet apart. The season for doing this is as early as the ground on
be profitably worked in the spring of the yea
You have now your field nicely set with plants regular distances $2 \times 3$ feet apart, or 7,260 plants
to the acre The first season nothing is to be done to the acre. The arst season nothing is to betone is to be expected of them but to grow out, occasion-
ally directing the young plants where to root as the runners push out. The object is to cause the young there mass up and keep the spaces between clear for cultivation and gathering the fruit. In this system scarcely any fruit is matured the first year
but in the second year a very large and heavy crop bot in the second year a very large and heany crop
is the result of thorough and patient care, and will amply reward all the labor and expense incurred. years, according to circumstances, and the whole is then plowed up and planted with some other crop,
or the ground is thoroughly manured and again planted with the same fruit.
For planting in the hill system the ground
marked off $3 \times 3$ feet, or 4,840 hills to the acra and the plants are carefully set at the crossings in makes a very nice plantation and is carefully and makes a very nict plantation and is cared from all
thoroughly kept, cultivated, and cleane form
weeds, and the runners scrupulonsly kept closely weeds, and the runners scrupulonsly kept closely
out oft In this way, large and fine masess of out of In this way, large and rine masses
fruit are matured the seong year in large clusters
ar. und the hills ar und the hills. This system is much more ex-
pensive than the first, and nothing but constant pensive than the first, and nothing bot constan
watchfulness and labor can expect to be successful with it. The hills must be underlaid with straw as the fruit is ripening, to prevent it being dam
aged by oontact with the neighboring earth, and aged by oontact with the neighboring earn, and
so making it unfit for use.
Both of these systems so making it unfit for use. boir stern advocat:s;
of strawberry-culture have their
but we greatly prefer the first, as it seems more practicable for general field culture in a country like this,
expensive.
For raspberries, gooseberries and currants, the
and is prepared as before, and marked off $3 \times 6$ land is prepared as before, and marked off $3 \times 6$ feet, or 2,620 plants to an and and placed in the crossings. The matter of planting raspberries is very simple and easy, an consists in merely, placing the young plants, pre
viously prepared, in their places with a spade and tramping them firm. The planting of gooseberriies and currants, however, requires much more labo and care, as the plants used are fine, thrifty, two
year-old plants and have plenty of long fibrous roots that must be carefully placed as the planting goes on. Careful and corlar crunings must be not be neglected, and regular prunings must
attended to. Blackberries are planted as are raspberries, but the distance apart for the plants
nust be far greater, or $6 \times 6$ feet, being 1,210 must be far greater, or $6 \times 6$ feet, being 1,220
plants to an acre. For this fruit, being so rampant plants to an a are.e. For this fruit, being so rampan
and irresistible in its growth, constant and systematic prunings are necessary and can
not be dispensed with for $a$ season. If thi not be dispensed with for a season. If thi
is not attended to, neither cultivation no fruit-gathering can be proceeded with wit safety or profit. In a former paper on
small fruits I have sufficiently indicated the varieties of these froits preferable for the purpose
of planting I have, therefore, now nothin further to do in this paper than to throw out some ants on the profitableness of
The demand for small fruits is annually increas ing in most of our respectable country markets,
and the difficulty of disposing of a fine crop of frait
It market that regulates the price of small fruits, a of every other commodity, and consequently deter crop of small fruit, as of anything else, is put apo 2. flush market, the profit side of the accont sink but if the same crop can be put apon a keen mans,
ket, the balance rises in grateful proportions,
analn, the question of profitableness is determin gain, the question of proftade the location an ature of the soil, 1 th location, etc., the ski
management, and the economy of gathering and nanagetent,
By this it will easily be seen that the que tion of product is not by any means the on In cases where the business is stadiously and intelli gently followed on from year to year with perse verance, good judgmen
stances, small fruit culture is universally found to pay, and amply pay the painstaking cultivator.
Let none, therefore, be discouraged in their Lttempts, but wherever good, sound taste for the
businoss exists, accompanied by a small amount of
apital at command, and a moderate amount of apperience, any one may engage in it with an
absolute oertainty of being well Tephit for their

## ruit Raising in New Brunswic

BY 3. L. PETERS, QUREN'S CO, N. B. To all lovers of good fruit, and who doeninot en-
oy it, it must be with the greateate matisfaction hat they have witnessed the increasedi nttontion that is being given to the culture of theo many and the rapidity with which our marketa have boen supplied with the most excellont quality' of fifuit of Provincial growth. It is but a ffew yeart ago
since we imported about all the really good fruit that was consumed by our people, drawing, the
sapply from our mister Province of Nova Sootia, sapply from our mibter Province ior Nove Sootia,
and from the United States So impreabed were
our farmers with the itea that our moil and elimate our farmers with the idea that our soil and climate were unsuitable for the growth and produotion of
the better kind of frait, that it wast with the greatthe better kind of rait, that it was, with the greal-
est reluctanoe and miagiving that they weres por-
 produce apple, plum, and cherry trael, and give
heavy crops of the poorest sort, of frait, they had
abundant evidence in the old orehards of natural abundant evidence in the old orcharde of natural
fruit, planted by the first settleos of the Provioe, particulaily along the sloping bankes of the valley of orr beatifual Overs.
tributaries.
Oarkets were filled with beanti. ful apples from Nova Sootia, and wile were large
from the United Statea
Onr people buyers, and it soon bocume a guestion of importance whether we should oontinue to repeat (the arge importasions of fruit year after yours onnal
the attempt to produce them for ourselvoe the attempt to produce them for oourselvoe. . good frait, and woul
short of the best.
Scarcely had the demand been eroated for graft
 ueiness and take advantage of opportunitient, were on hand to supply the demand. Through the per
 tates, large sales were made to out furmersa for ew years of the grafted fruit trees they srenes cul (ivating, but from some cause (partiallys perhape, that proper cultivation and care so essential to the growth of young trees ) thonse who purchased then
were sady disappointed; large numbere of then died the second year after planting, and those that id live made but a siokly growth, and $I$ aquentio to day, ten por cent
planted can be found alive

## Nothing dannted by the d

this attempt to grow fruit trees, and othavin earned wisdom by and experienoes, maly numb the province, colltivating those kinde which is their judg ment would prove the mont miteble was Mr. E. P. Sharp, of Woodstook, whoeneffort in this direction have been very succeesfal, and who, we venture ase for the great variety of fine healthy trees he has been able to supplya: Mr. Sharp's succeess aoon led othera, to follow, shig ox mple, and now we wave Co Mr secord nurgery Mr Slipp's in Queens, and the Sussex and Albert Oo nurgeries. From these nurserien the people boug
antionsly at first (in view of their pasto cantionsly at first (in view of heorir pasto apperienc)
but as soon as the fact was establishedi that with proper cara the trees growing here were mare to
ive and do well, they at once iseresed their ive and do well, they at of note mowin orders, and it is a fact worthy of note, ne numeries at present eetablighed in the Province are taxed their utmost to fill the orders given by the rable
growers of the Province; while considerable quantities of trees arre still sold by agentus of Nov Scotia and Uuited States nurseries. Experience
has shown us that quite a large variety of apples can be succeessinally grown.
In autumn fruit In autumn fruit grewn. have the Karly. Harvest,
Sweet Bough, Red Astrachan and Ducheess Oldenburgh, or New Brunswickers, the they are familiarly known with us. The Ducheme is,
think, without a rival with us in auntumn fruit. Crisp, tender and juicy, with sprightly aid, flavo tractive appearence. The tres is a proils bearer

The Early Harvest is a very desirable early fruit fruit, is often impertect, makiog it unproftable for
 with me has not proved very productive. The
Red Astraehehn is ma exeeedingly beautiful apple and perfootly hardy; the fruit is nice, but like the

 tree in perfectiv hardy and productive.
In oarly winter fruit, the Pamense has no sup
erior; fruit of medium size, and deep crimson when grown in the sun, flesh snowy white, tender and of delicious fivor; the treo is a vigorous
grower, bearsat an aearly age, and quite abundant,

 Tanother of oun ourly wintor varieties ; fruit large with nice erimson blash, and fiue appearence,
flesh not so fine as the Famense, but having


 equal to the Emiperor in every respect.
Prominent among our list of late winter frit,
are to be fond the Golden Ruseet. of Western New Fork, Yellow Bethotower, or Bishop Pippin,

 Golden Rusett $I$ have found to be a most desir
able winter fruit keeping intil June in perfect able wither fruit keeping until June in perfect
condition. Fiesh firm and crisp, yellowish white, flyor witd and pleasant. The tree is a tigorous
growef and fairly prolitio, should be extensively growep and
cultivated:
The Biahop Pippin is large, of a superior quality,
oblong, and quite irregular in ins formation. The fleot id ted ter, juicy and crisp, with a sprightly
acid fluvor. The tree with me has thas a very tigorons grower, and perfectly hardy, but
 extent when about the size of plums, In Norga
Scotia thit tree is immensely productive and Scotia the tree is immensely productive and is one
of the standard fruit growers. It is to be found in every orchard in that Province.
The Northern Spy with us is a hardy, thrity
and uprigat grower, moderately produt and upright grower, moderately productive, but
very tardy, Hh coming iato bearing requires high very tardy in coming iato bearing, requires high
cultivation and quite severe pruning in the centre cultivation and qquite severe pruning in the centre
of the tree to ive it a spreading form. The fruit
is of the highet orde. is of the highest order, peculiarly fragrant and de.
licions, an retains its freshnoss
lige an antumn
 with stripese of purplisa red next the sun; the flesh is white, fine grained, and very tender and juivey.
Those who are willing to wait from tan to fitten years for a aplendid sample of fruit should platat at once. One need not expect good fruit sooner. No
orch rod ib oomplete without a number of trees of orch red in aon
this variety.
this vaniety.
The Pomme
 vince, but richly deserves a place in all well stocked
orchards on orchards, on account of its late laeping qualiiies
and excellent flavor. In size it is below medium,
 January to June.
Ben $D$ avis has
Bon Davis has been bat recently introduced, but
thus far has given good satisfaction strun far has gityen good satisfaction; the fruit is is
stripe with red, and bright red next the sun,
rather above the med rather above the medium in size.
The Strawberry Pearmain, introduced by "the In size, large, pale yellow in the shade, with a beautiful crimson bushs next the s.an ; skin beauti-
folly dottei resembling astrawberry in fryly dottee resembling a strawberry in appearence. peculiar freshness and delicacy until late in May.
The tree is a vigeros The tree is a vigorous grower and parectly hardy.
No orchardist should be without it. Talman Sweet is a without it flavor; not much for a market apple, but nice to have a tree or two for house upe., The Nonpereil

 vated; the tree is productive and a thrifty grower. $\stackrel{\text { tion }}{ }_{\text {With }}$
With reference to the culture $I$ have found that
apples, like all other crops, are greatly beneited apples, lite all other crops, are greatly benentited
by constant care and yood cultivation; indeed I
am convinined that orochard culture cannot be m convinced that orchard culture cannot be
vation. 1 am happs to state that I am not alone
in this respet, as
as orchardists who have by experienee in the variet, ion can only be crowned by soncecss in that diree orchard $s$ are carefoully attended to by py proper prun ng and good cultivation.
Inotice that very
ing out their young orohards are parkeing in the plant
 This is a great mistake. I have invariabty pianted
them 33 feet aparteach way, and hopes at no very distant day to see their branchesk hapficieintly noty to each other for the eultivation of first- -lases fruit. Besides it gives the advantage of easgy onltivation.
From 8 to 15 feet may answer when they are tuite rom 8 to 15 feet may answer when they are quite
sinall, but after somel ten or fifteen years have elapsed (if the troes grow or the they stopond) they would present much the appearanuse of a thicket of
brushwood, with branchef woven and interkbiven
 In of perfeetion
given the sabbject of frovit ciltotiare, where they hare tion and have been very sucocessfalul fruit growers I find thatit it is the practice to plant their trees
fr., 25 to 33 feet anate are many advooates of the elose plamenting that there the Pony anco bute at the risk of of inting system in in
thing their Iri ndly criticisms I protest against it.
Little is being done to extend the col
the crab apple, ass it is not oontenidered tivation of the present supply being quits in exceess of the de
 Aberian, etc., are among the varieties grown
As yet bout little has been done in pear cul Some of the hardier Borts however have beein in trod ceed and the result is awaited with intierest.
Probably the climate of our' Provinee winl nit
 to graat perfection
The culture of small fruit is largely on the ip. berries was attempted by D.". $P$. Wetmore, Esq of Cliffon, for market parposes, and" so successfulul has his attempt proved, that whereas in 1877 we
were importing all the cultivated strawberies were importing all the cultivated strawberries
made use of by our people from the United
States, we are now supplying our markets and shipping
latrge quantities to $\begin{aligned} & \text { Halifax, } \\ & \text { Quebec and }\end{aligned}$ Boston. large quantities to Halifax, Quebec and Mbston.
Many of fur farmers have gone iuto the ealtivation of emall fruit, encoouraged to to so by the surceess attending Mr. Weetmore's efforts. Their plantad
 principal varieties cultivated are the Wilson's Al.
bany, Charles Downing, Col. Cheney and Dow bany, Charles Downing, Cul. Cheney, and Downer's
Prolifio, The inter:st in their oultivation, as also of raspberries, goosebeerries, etcc., is inereasing.

Noycmber in th: Garden.
There is less to be done in the garden this month than in any of the fall months, Nature seems to renewed vitality in the spring. There are, how ever, some things even now to be done. Not only but we can do oservect in preparing for the future by
being beforehand $i$ in being beforehand in your spring labor. Diagging,
ber better still trenching or, bettor still, trenching. No vacant spot should October. Throwing up the land in rough ridges makes it more fertile and friable. There is latent
richnoss in almost every soil that

Asparagns beds should be propared for winter by
 maining to be forked into the soil. The plants are hastened in growth and improved in flavor by ${ }^{\text {a }}$ top-dressing of salt. Lettuce and radish may still be sown in a oold frame for an early spring supply,
thoongh october would have been more suitable. A great benefit from turning the soil in Ostober or
November is the destruction of many injurious insects, especially about the roots of fruit trees,
bushles prevent the increase of many more. Marters are broken up by the operati n, and many
of them killed and frozen the of them
their great exterminators Cruir great exterminators.
Pruning - The best seas
 ed to at the proper season, therem may be semp
branches to be cut away.
The object of pruning branches to be eut away. The object of pruming
in the fall is to cause branches to push out with
grater vigur in the spring. The time for fall ranth is when the loaves have fallon. If this even now. If. it be neeessary to maw. of large
branches, smooth the soar and paint it in order

 are straggling or too forwatd may be prunet with Unhealthy (Onehards.
frees is the poverty of the "goils This' may't comeaised by a liberal topdressing. A more effion the following: Dig a cirele round the with food io two spades deep, and from four to toight feet from
the stam the stom Fi, Fill this oircle with rieh homposit. This We have often practised this method of feeding fruit treas, ospecially currants and gooseberries and dound that ithprovement the foilo wing geason.
We generally add iover the com post and We generaly add iover, the compost and tound the
tree icool and hee Ta, This enriching of the soil should be addad a praning out of all de deaying branchens
gcraping off the old scraping off the old, loose barke and moses, and
washing the trees with a oolution of softsomp and salphar.
Planting Traes, Planting in autum or spring
has acah its advocates, ase ach seasom hasi tite hal
 pantages and disadvantages.2. The carreful trans
planting is, bowever, of greater impotane than the season. If the weat ther remains inill mind the ground in good condition, trees may be, tidil trings-
planted tected by having a mound of iefurth y yheopad ibe pro them to some height. This is a proserrytive from mice, from frost, and from beieg distourbed bly winter and spying winds. lizte as this moonth sin preferencel ito waiting until rstrang.
Prese





 is but little danger fof tiving it toto muthf wateting. If the plant has bren- out back or tost its leaves

 strong tea; or wen the plants aro large they should be syringed with it instead of being immers.
cd.
Boibs. - If the weather continues mild and the
 planted, and the beds should be proteotod by a
coating of foreat, leapeas before the ground be trozen,
So quash Sed.-The seed of the squagh continues and it is better to to leave them in in the sum tuasit for as coaple of mont ths bofore removing go that that they
 dried. Seed so pr
four or five years.
Indiain Corm for seed should be carefully selected axd preserved. The neeessity of this has been
exemplifed this season. The Ohio Board of Agri. culture estimates the loss in the corn crop in that
State on account of defective seed at 40,000 oot bushele The loss in the cofn crop of lllinois from proves taat too munch care cannoot be biven to select. ing and preparing seed corn.

Petroleva or Trers and Bushbs $-\perp$ Dr. He
 leum on the trees in his garden they had grown better and faster than ever before, and given better
roses than before. The petroleum seems to kill the scale insect. The handsomest rose he exhibited was from a basi which looked nearly dead a short imen before. The petroleum was mix or with
castor orit
tis applied sparingly, and great care is taken that it does not run down the roots. Per haps in a crude state the petrownum would be bad
ven en the stalks ; bat mixed with it appears to be ad vantageous to the the cast

What is Good Grape Culture A friend joyfully told us a fow days ago of his
anticipations in the grape way. He had bought a little place in the vioinity, and had made up his mind to have things right. His maxim was that and he meant to do it. He had done it. He had duy ont the dirt three feet into the clay, and had fille roots might puash their way in thase and comfort and live on the fat of the land. He had spen consided to get only the best vines, well. He in such an expenditure would result in magnificent
grapes and plenty of them. He had done his work grapes and plenty of them. He had done his work
well.
It is atrange over have been recommended by hortiecultural are now so essily and cheaply grown-fruit often our and five cents a pound-that we had wellnigh forgotten that this was the standard sdvice of the books years ago. But our friend produced it in
lack and white from the pages which he hai chosen as an authority, and then we knew how it was in the olden time.
Now, our readers at least would know that in-
tead of sueh ad proceeding as this being an evidence of doing itwell for the grape, it is simply an act of folly. Theigraperiroot needs to be warm , nd dry but this deep wwoll in the clay encoopraging 'the col trary effect. The, roots are damip ahd loool and not Indeed it is ans
Indeed, itis onty of date years when people bave given up aul this axpensive foolery that' grape-col-
ture has become/a tolerable success. /f Under old plan we have failure after failure, so that we came to believe onnly those ovarietieg whichi were
 getting quite Gompmon, As spopam we gevorpp this deep trenching aponsensa, grape-aulture-reall grape consists in liftule more , than planting anine in good earth of less depth than wh would quy spdinary ree and seat that, it dgean not sufferg for wont of food

## Ioultury?

Description of Farm Poultry. Continued.f
by b. A. brown; chbrey grove, ont.
There are two varieties of Brahmas-Light and Dark. The Light Brahma is the farmer's favorite,解 ricy meat Color of yum whe te silvery white with dork stripe downeach eather, taill small and color blact comb pea, or aving three small combs joined in one, the centre ne the highest, comb, face, wattles and car lobe bright reds shanks yellow, and feathered on the utside down to the end of outside toe with black and white feathers. Weight of adult oocks from 1 to 14 lbs , hen 9 , to 1 ll lbs. Ohicks mature to lay in about aine monthsuseven eggs per pound, are good winter layers, but inclined to be broody warm weather; are better enclosed in a smal well if not overfed on too much fattening food, a hey put on fat very fast and are apt to become ery dull and lazy it fed on too rich food.
Dark Brahmas are similar to Light, except in
olor of feathers, which have dark bars running across each feather, exeapt on breast of cookk, which is black, or nearly so--somentimes dotted
with white. They are not quite as popular as the light variety. There are four varieties of the Ccchin family.
The Baffs are the most popular. Head rather The Baffs are the most popular. Head rather
short for size of bird, color buff; comb single, perface and ear lobe bright red; neck and back of cock deep buff;; breast and lower part of body light uff; tail tipped with brown; neck hackle of len
ometimes tipped with black; shanks yellow and sometimes tipped wiuh black; shanks yelow and stately. Weight of adult cock 11 to 15 lbs. , hen
9 to 12 lbs . Eggs deep color, seven per pound.

Are first-class wioter and fall layers; meat yellow
sweet and tender. Pallets if mature in seven months and begin to lay, but are inclined to be broody when warm weather sets in, if let run at large; are better confined to small
apartments, and will stand enclosure the best of all the hen tribe. Are the tradesman's favorite, on account of their size and hardiness, and excellent table qualities.
Partridge C Partridge C chins : Comb, face, wattles and ear
obe l.rilliant red lobe rilliant red; comb single, erect, small and nich red orange oolor, with a black stripe dowa cach feather; breast, wing coverts and tail gloss
black; shanks feathered down outaide with black eathers; color of shanks dusky yellow. Partridge hen: Neck short; oolor rich reddigh golden, with
dark stripe down each featherf; breast and body rich brown, pencilled with a darker brown mark across each feather; tail short, main feathers
black; shanks dusky yellow and well feathered on atside to end of toess colon same as the body dult cook 11 to 13 lbs , hen 8 to. 11 libs.; are goo
inter layers and have their admirers amonge anciers; eggs 8 perpound.
White Cochin : Plumag
ingle, erect and evenly serrated; cont white; com lee and ear lobe brilliant red; beak and shanks yellow, well feathered, on outside of leg and down
Weight of adult coek 11 to 18 Lbs. hen 9 to 11 libs Are good mothers and good with a clean grass rua on account of their plum ge, which shows any soils; egga 8 per pound. hroughout; comp sipsle, small, straight and upight; wattles and ear lobe deep red; ; shanks yel-
ow, haqded with blaok; outside of shank and two outside toes well faathored. Weight of adult cook 10 to $12, \mathrm{llbs}$, ,hen 8 to 10 lbs.; eggs 8 per pound.
ood winter layers, hardy and bear confinement Good winter
fery well
Dorkigg
Dorkjing - Wh hite, Silver-grey and Colored:-
White: Plumage pure white, except in adult ocks, in which it is sometimes tinged with yellow; omb is rose, bright red, squane ein ' ront and sittina
evel on the head, ruaning to a point behiad; ear obes and wattles ibright red; good flowing tail, thilo elevated sickle, feathers; Ahanks flesh-oolor, if
clean and with five toes. Good winter layers warm weather; good mothers; will lay at eight months old if well fed; bear confinement will if they get, an outside, run of med.
their house; eggs 8 per pound.
Silver-grey Dorkings: Comb single or rose
wattles and ear lobe bright red; head, neek and Wattles and ear lobe bright red; head, neek an
saddle hackle of oook silvery-white, striped with saddle hackle of oook silvery-white, striped with
black; breast and tail rich blaek; wing-bow sil-
very very-white, wing-coverts a metallic greenish-black,
shanks white or flesh-color, having five toess Hen: Head ashy grey, ne grey at the sides, winge grey, primaries dark brown, tail dark grey and carried at a moderate
elevation; shanks smooth and flesh,eolor, having five toes. Moderato winter layers if given good apartments; do remarkably well where only one
breed is kept, if they have a good run. Pullets reed is kept, if they have a a good run. Pullets Produce the best flesh of all fowls. No fancier hinks his yards complete without this variety. Colored Dorkings are similar to Silver-grey in
every point, except color of feather, which is deeper shaded, and may be from light to very dark clean and bright red; legs white or flesh.colored, armers, as they are not so hard to breed to the equisite color of feather

Ceding Poultry
We have sometimes been amazed at the differ ence between chickens hatched from the same differently treated as to food. We do not refer to cases where the youngsters bay - heen starved, or
half-starved and otherwise neglected, but to in. half-starved and otherwise neglected, but to ind
stances in which food has been abundantly supplied, stancesin fault his been rather in the quality than the quantity.
Before entering upon the discussion of the best
method of feeding the growing birds, $a$ few words as to the treatment of the breeding stuck may not be out of place.
It is obvious It is obvious that the chief points to be borne in
ind
shall promote a general, healthy and vigorous itate excessive fat and which imphes a freedom from necessary materials for the formation of egge. The egg of the domestic fowl, when deprived of its shell, consists of 71 it parts of water, 14 partit of
albumen or flesh-forming material, 13 parts lof fat etc., and $1 \pm$ parts of phosphates, etce. The propor:-
tion of fiesh.tion of ficsh-:orming material to fat is far largeo in
the white that in the yelk, bat that is not of im the white thas in the yolk, but that is not of lim.
portance for our purpose. The shell of the eggis is portance for our purpose. The shell of the egge is
mainly coniposed of earbonate of lime or hard chalk.
The sec
The secretion of an excessive amount of fat by
the hen has by experience been found to be the hen has by expexienoe been found to be a
hindrance to laying, but onoe hens are in foll lay' a larger proportion of fat-forming food booomes oggs. W feeding the breediagg stook. The Asiatics are so
very difforent from some of the other breade as the Spanish, Hamburghs, etto, that a course of feeding which is suitable for these latter sorts would be far to fattening for the Asiatios. The
food must be selected according to the variety kept, and must also be varied to suit the seameon of the year. Indian corn, for ingtance whiah materials (fat, starch, eto, on should bormegiving used in winter, and may be givan to the breede hies than not apt to ran to fat in largen quan be given with less danker of evil resulte whan the hens are in full lay than at other times. A mixtures of whole grain are not to be recommended. It is far better to give one grain for
a time, and then change to anothor, than to give a mixture of several. With regard to soft food the case is different Here the means of varying the oharacter of the
food are numerous, and a fudicious blend of meals, with potatoes, parsnips, turnipt, etc., may
with advantage be resorted tos, The soft food should, when ed, just as much water when possible, be cookbeing used. Cooked food is much more exaily ate proportion of water helps the a moder ate proportion of water helps the process of
digestion is indispensable, and if the birase be confined a mall portion of animal food may be given with
advantage: The supply of gravel or sand to keep the gizzard at workl, of of of lime wabbish in
some form to make the shelly for the eggs, wust nome form to ma
not be omitted.
The fee omitting of the chiekens has, as we have already said, an important bearing upon their maturing early or late, and consequently upon therr ultimate eize. are are is an object formers must, after the first two or thee months of the chicken's life, be withheld br 'given on'y in
conjunetion with other food containing bone-me ing materiaks. Bonesmeal has bit liate yeares heen largely used for mixing with thickens' food, and continued till the birds reach maturity About one-tenth of it added to soft food is sufficient. During the first three months of the ohick's life no maturity need be felt, and food oontaining plenty of flesh-formers, as also a moderate supply of meat, Oat-meal should first form the chief food, varied with a mixture of Indian-meal and midalings
later on the quantity of oat-meal mast be diminished, and bran may be added, while after three nonths back wheat, wheat or barley may be given,
as grain with bariley meal, middlings, bran and as grain wath bariey meal, middings, bran and
Iodian meal as the chief materials for forming the soft food. Pea-meal in moilerate quantities is good at first, but sinould be av
to stimulating. Where size is not the objeat, and early maturity
is desired, a diet in which Hllash-formers are largely present may be adopted throughout.
A wo d of caution may be added as to breeds in
which largeness of comb is a disadvanta especial attention to the exclusion of all overstimulants from the food is essential, We have
seen more than one firtt-rate Brahma eockerel seen more than one first-rate Brahma eockerel
speiled by injadicious kindness in the matter of feeding. A few scraps of meat gathered from the
fanch table have been too much for a springing lunch table have been too much for a springing
comb which was all right before, and the prize comb which was all right before, and the prize
which would otherwise have been gained has had to go elsewhere.

The Derby Game Fowl. We do not admire the cock-pit, or any of the brutal exhibitions that take place there, though we do dimire the game fowl, particularly the Derby, ranking as it does as one of the oldest breeds in England. It is the many superior
qualities, apart from those of fighting, possessed qualities, apart from those of fighting, possessed miration. Those who breed games say their flesh is finer-grained and whiter, and their bone lighter than that of any other fowl. The eggs are larger in proportion to the weight of the bird than those
chickens. One or more game hens should always tail long and sickled, being well tufted at th be kept by those who have flocks of non-sitters. The game cock is not nearly so pugnacions as many would suppose from the repugtion he attained, yet when once started in a fight he continues till he or his antagonist is defeated, after which he is peaceably inclined. It is seldom that he will keep up a long chase after he has gained a eated bind other fowls will constantly
This breed of fowls cannot well bear close con
inement, but are excellent foragers, and if given a whit
whit thick, short and stiff; legs rather long, wit coarseness.
The red Derby Game cack is a very showy bird He should have a bright red face, breast and thighs coal black; hackle and saddle feathers ligh orange-red; back brown-red-a depth of color that
painters term dragon's blood; lesser wing cover maroon colored; jreater wing coverts marked the extremity with steel-blue, forming a bar acros ne at least of the pinion feathers is marked with one at
white.


[^0]Not only are they larger, but they are richer as food than those of any other fowl; and it is a fact not generally known that there is a wide difference in the guality of eggs. The hens cannot be recom mended as non-sitters, like some breeds; as good mothers they excel every other breed. Some farmers have a mistaken idea that they are pug. nacions, and always spoiling for a fight, The are no hens more there are none which will fight but if arre tenaity, and this good quality is wh with more ton such good mothers. We have seen makes them such grive a tom-cat from the yard because he dared to attempt a raid upon her
though somewhat shy, like the leghorn, if kep family. The cooks can become accustomed to the oo as to dress six pounds, and bus three anl half to four pounds. These weights may be con idered, however, a pound above the average.
In the illustravion herewith given the birds are epresented as nearly perfect as possible, the cock showing off his points to excellent advntage. He is of good round shape, well put together, the
head long with "daw-eyes" (resembling the eyes head long with daw-eyes (resembling the eyes
of the jack-daw), long and strong neck, hackle well feathered, touching the shoulder; wings large and well quilled, back short, belly round and black,
and the Dorking. Their size was not increased, Leghorn, it is said, emanated from a cross between the Leghorn and the Game. We have crossed he typ produced a similar bird, but did not fix the type. We hath
with the Brahma

A worm resembling the ordinary corn-grub has appeared about Goshen, N. Y., and is ruiaing rass fields. It burrows in the ground just be its presence is detected by spots of th presence if detected by spots of brown grass
that look as if zcorched. The sward can be lifted from the surface, revealing the grubs beneath.
Many fields are swept cleaner than could be done Many fields are swept cleaner than could be done
with a scythe and farmers are becoming alarmed with a scythe and farmers are becoming alarmed.
The same grubs are eating the potatoes in the
ground in many localities,

## Hints and Helps.

 We give an illustration of a conveniently arranged post to hang hogs on. The post is made with four arms. It should extend about two feet above the arms, with an inch and a half pin in the top. The tackle consists of a piece of $3 \times 4$ inch white oak scantling, with a pulley wheel in one end. This scantling should be long enough su that When placed on the top of the post the end with the pulley wheel will extend four or five inches farthe
than the arme. The rope is tirst fastened in the scantling back from the pulley wheel, then through the movable palley with hook, then through the palley wheel in the scantling, and drops to the ground. When you wish to raise a hog, put the centre of the gambrel (which has already been fastened to the hog's lege) in the hook attached to the moxable palley. By pulling at that end of th rope which cropped to the ground the hog is easil raised, Betore attempting to elevate the ho fhe engraving to the arm below. When the hog is hoisted to the dosired arm, the scantling can then is hoisted so as to plice whog on each arm. O movable scantling, with rope and pulley, will do movable scanting, worts any number of poster all the arms on one post have been filled, lift the scantling to the top of another.

## Making and Filling Ice Houses

 Will be found profitable to all country homes or other places where ice cannot be procured cheaply. A few years ago it was generally supposed to be quite difficalt to keep ion. through the summer, and an ice house was considered too expensive for the average farmer. Butof late years the idea that ice can be kept only in of late years the idea that ice can be kept proved a costly and elaborate structure hice houses has in. creased eensiderably, but not to the extent they should. One ought to be found on every farm, or else-a good substitute should be provided.
A room either above or below ground works well. If only a small amount of ice is needed, a weom may be boarded off from the wagon shed or any of the outbuildings which may be convenient. A clean basement room in any outhouse, or in dwelling house, would also answer the purpose. Our illustrations show several methods of buila ing cheap and useful houses for this parpose


Fig. 1-Rough or Shanty Ice House, left

Cheap ones may be quickly constructed in the form of atrong board shanties, with a good but no tight floor. Place a few inches of eawdust on the floor; pile up the ice compactly in equare blooks, next to the boards, to be filled with sawdust trodden in, as the structure of ice is built upwards. Cover the whole with eight or ten inches of sawdust, and let plenty of fresh air blow through the shanty over the top. Ice will keep in this way as
well as in the most costly and elaborate building Chaff or finely cut straw may be substituted for the sawdust; but being less perfect non-conduct ors, should be in thicker layers. One door enough for a house of common size. A better ice

house can be built of boards, with double walls. Fill the space between the walls with sawdust. Although they do not keep ice better than the one just decribed, they save some labor by obviating the removal of the sawdust every time they are filled with ice. But even in these a thin stratum of sawdust should be packed arout $d$ the ioe, say three or four inches, between the walls and the ice, which should be filled in and pressed hard as each layer of ice is laid.


Fig. 3-Plan of Single-Wall Board Iee House


Pig 4-Plan of Double. Wall Board Ice House.
The accompanying plans and views show the construction of these buildings. It will be seen in the view of the double-walled house that a large ventilating window is placed in each end at the top; these windows should al ways be open. There are two double doors at one end for convenience in filling and taking the ice out at different heights. Care should be taken that all the sawno pressed solid, and no cavie ten feei and six feet with one apartment, high (including a foot of sawdust all ar
Some of our readers are no doubt far from rivers or any other sive a plan recommended by For their beneft which is very simple and requires Mr. Warning, which is very simple and requilse but a trining expense north side of some building. Lay a floor $12 \times 12 \mathrm{ft}$. on scantlings, one foot from Lay
the ground. Set firmly at each corner a post from
8 to 10 ft . long. 4 to 6 inches square and from 8 to 10 ft . long.
When the weather becomes cold place on the floor
sawdust, tanbark or rye-straw to the depth of 8 to 10 inches. On the top of this place another Hoor of the same size, putting a ourb inside tha posts to keep the filling between the floors in its place. Next make a curb $10 \times 10 \mathrm{ft}$. and 6 inches deep. Fasten the corners with oommon gatehooks. On a cold day place the ourb on the floor, having each side and end of the ourbint an equal distance from the edges of the floor; putin a few inches of sawdust, chaff or tanbark, and dash water slowly over the bottom inside the ourb, until it forms a coating of ioe that will not leakk; fill the curb with water and let it atand qutilil it is frozen solid. With boiling water thaw the ourb little water round the edges antil it becomes water-light, fill and freeze as before, and so on ntil a sufficient quantity ace boards on the inside of the posts and anh rye-straw or sawdust. Nail boards on the outaide of the posts and fill the space thus made with the same substance as before used; cover the top of the iee with sawdust or tanbark to the depth of 10 or 12 inches. Over the whole put a roof to shield from sun and tain. Ice can thus be kept the en. tire season. If a stream of running water can be furned into the ourb the labor will be very much lessened." The above in the size of house recom mended, but the same plan oan be carried out with a building of any dimiensions.
An illustration of more expensive building than any of the above was given in the February a first-class refrigerator to their ice house for dairy or family purposes, a eard to Messra. Withrow Hillock, of Toronto, will give them every infor mation.

The Norway Spruce.
The Norway Spruce. is one of the most popular,
if not one of the most beantiful and hardy of everif not one of the nost beantiful and hardy of ever
greens. If it were properly treated while young greens. convinced it would command a higher respect during its old age. The desire on the part of
those who plant trees about their homes to those who plant trees about their homes to see
them grow as fast as posibile and their distrust of any pinching or cutting baok are natural. Any. thing that retards growth for one year is con.
demned. Is is too long to wait for results that, at demned. Is is too long to wait for results that, at
best, are not to be counted upon positively as they believe. Therein lies the mistake. The results
may be confidently counted upon ; and in this we may be confidently counted upon; and in this we
speak from our own experiencee. The Norway speak from our own experience. The Norway
Spruce if left to itself while young, especially if not
well planted, attains its fallest beauty in ten well planted, attains its fullest beauty in ten
years. Afterwards, the lower branches begin to years. Afterwards, the lower branches begin to
lose their foliage and the conical symmetry which
in this lose their ioiiage and the conical symmetry which
in this tree constitutct its frist charm, is marred.
If when first set in its permanent abode the buds If when first set in its permanent abode the buds had once been pinched out or what is the same
thing, the tips of all the branches except the lower
and lowermost ones had been cut off-and the and lowermost ones had been cut off-and the same course had been purgued the second spring.
growth would have been confined mainly to the growth would have been confined mainly to the
lower branches, and a vigor woull have been im. parted to them that would be retained as long as the upper branches remained robust or as long as
the tree maintanned a healthy existence. The impression, which until of late years has been quite general, that evergreens (hardy conifforous ever-
greens, at least) were never to loe cut back, is atill a conviction in the minds of many ; and it is one that deprives them of the very beat meens both of ad. ding to the attractiveness of their evergreens and
of reserving their attraction unimpaired to a good old age. For the purpose of inducing this strong ol age. For the purpose of naucing this atrong
development of the bottom branches, and at the
and times more compact same time a more compact habit throughout, in.
stead of cutting off or " back" the branches, we have for several years past merely twisted out of the verticle of buds which terminates them. Those buds begin to form as soon as the apring growth
is completed, and they may be renoved in the following fall, winter, or early the next appring. Thus only the terminal growth which would have been made is
plished.
gavicutturat.
Daions from Seed. Those intending to commenoe Onion-raising on
new ground another season, will do well to make
preparation of the soil this fall, and have it ready preparaion, of the sail this fall, and have it ready
for operatioss at the earliest opportunity in spring
It is of great, advantage to sow Onion seed early It is of great advantage to sow Onion seed early,
and the best way to ensure it is to do all that can be done in the lall to make the soil ready, for, i left until spring, it will take longer to dry than if is not only the time required for its preparation is not only the time required for its preparation,
but, very probably, considerable delay by frequent surms at, that, season. In order to bulb well,
Onions should have all the chance pas Onioir early growth while the chance possible to make sown late, when the mean daily temperature is
she already high and inereasing, may vegetate promptly, growth and never produce as good bottoms. old growth and never produce as good bottoms, old
Onion growers understand all this, and do not
need to be remided of the importance of the early need to be remiande
preliminary work.
Good Onion crops can be produced on a variety of soils, from sandy loams to clayey loams, and
alluvial bottom lands containing a large amount of carbonaceous substance of vegetable mold. Soils of the latter oharacter are probably best, but the
land must be well drained; this last remark is true of all land on which On:on culture is tó be undertaken, but it is not so frequently necessary on rolling uplands to underdrain as on the lower lying
bottom lands. Good crops are of ten secured 3 n such lands by a system of draining with open
ditches; generally, it may be considered that this ditches; generally, it may be considered that this
method is more expensive ultimately than substanmethod is more expensive altimately than
tial underdraining, but there are localities where
it can be adopted to advantage. On most clayey it can be adopted to advantage. On most clayey
loams underdraining may be considered absolntely essential to secare the best crops of Onions, and
this preparation should be made with full this preparation should be made with full conficrops. A good, sandy loam is very desirable soil
for Onions, and good crops may be raised on quite for Onions, and good crops may be raised on quite sandy soils aith proper more desirable than that
ing. Level ground is me,
having much slope, as on the latter the washings by heavy rains woold be injurious. Land should be selected if possible that has just been in some
hoed crop and that has, thereby, been left free hood crop an
Deep plowing and harrowing the surface until
fine are operations essential to a good crop. It is well to delay the fall plowing as late as possible,
but it should be done when the ground is dry, and lut it shont be done when the ground is dry, and
can be left in rough furrows all winter. Oid or well-rotted stable manure should be used at the rate of twenty cords to the acre on most soils.
Fresh manure should be carefully avoided, as it contains many weed seeds which would immediately germinate and, consequently, cause
extra work in weeding after the crop is up. When barn-yard manure of sufficient quanti When barn-yard manure of sufficient quantity
or of proper quality cannot be procured, artificial
fertilizers may be used, of these fertilizers may be used; of these, Peruvian yuano
and bone-dust can probably be used to best advan. and bone-dust can probably be used to best advan-
tage, and should be applied in'the spring and Worked in during the course of pulverization, Asd to two hundred bushels to the acre. It is generally agreed by experienced Onion grower
that mellowing the soil deeply is a disadvantag rather than a benefit, as in that case the roots strike deep and the Onions do not form good
bulbs, many of them being what are called bull. bulbs, many of them being what are called bull-
necks, or Scallions; conseguently, if the cultivator
is used in working the soil it is used in working the soil it should be set so as not to run more than about five inches deep, and
on light solls the use of the harrow will be all that s necessary. This work should be done as early requires about three weeks for Onion seed to germinate, and it should be got in with the least delay
possible. Having the soil in proper condition, fine and mellow, the soed can be sown very rapidly with a good seed-drill. It should be in rows about twelve inches apart. If the seed is to be sowed by
hand a line should be used to keep the rows straight; draw a drill by the side of the line, about half an inch deep, and drop the seed as evenly as possible, about a quarter to a half inch apart, and
then cover by drawing a little soil over, or by owing is sometimes practiced, and is thought to
distributing the seed in littie clusters or circles
about six inches in diameter, keeping the centres twelve inches apart each way; however, drilling in ontinuous rows is the generally acecpted method.
If all the work of cleaning and cultivating were to be done by hand and hoes, the cluster or hil
method might present advantages, but with wheelhoes and hand cultitiators there is pone.. The
implements referred to are now offered in forms so implements referred to are now offered in forms : 8 or
improved and perfected, and are such valuable aids in cultivation, that no one having mach work to perform, of the kind to which they are adapted,
can afford to be without them. Onion seed is a crop of co it produced from year to year is quite variable; as it is poor seed to keep, it is subject to great fluctations. It may be offered one season at a dollar or a dollar and a half a pound, and the very next spring be worth from
four to five dollars. A little reflection will endble our readers to perceive that there is no safety in turning aside, in time of sarcity, from respeotable
dealers who have a reputation to maintain, in dealers who have a reputation to maintain, in
order to buy Onion seed at a low price. No one
can can offord to carry his stock over at any time on unusually yaluable the more necessity is there for
him to sell; to fix an exorbitant price the him to sell; to fix an exorbitant price, therefore, and to maintain it, would be practically impos
sible. On the other hand, the temptation is very great at such times for irresponsible parties to pour into the market old seed at a comparatively low
price. One cannot afford to take any risk in price. One cannot afford to take any risks in
purchasing Onion seed, as the expenso cf propaga,
tion and the value of the prospective crop are too tion and the value of the prospective cro
great to admit of any avoidable chances. The staple varieties for general crops are the
Wethersfield Red and the Danvers Yellow Particular markets may demand white varieties to some extent, when White Globe can be raised for early use.
As soon as the young plants are fairly up, cultivating and weediug should commenee, and be per.
sistently continued until the crop is out of dand sistently continued until the crop is out of danger.
A delay of a few days in weeding may result in the loss of a great portion of the crop. If any appearance of wilting or turning yellow. of the plants is noticed, immediate inspection of them must be
made, for this indicates the work of the Onion maggot, which sometimes does considerable damage. The Onion-fly (Anthomyia ceparum) lays its
eggs on the Onion, and the eggs on the Onion, and the larve when hatched
gnaw into the centre of the little Onions and groy them. All affected plants should be pulled up and burned. Soot is the best substance that can be applied to prevent the work of the insect,
and next to this is powdered charcoal; lime, salt es will all do good.
Mixed Farming, as Generally Under
stood and Practiced stood and Practiced, a Snare by hon. hiram smith
I am well aware that the opinions I intend to present will come in direct conflict with the opinions and notions long entertained by the great majority of farmers of the present day. Mixed
farming has been highly extolled and reconnend by most of the politicians and professors who
have addressed national and
international agricultural associans, and has been echoed, Waro have addaressed thousands of agriculturists.
We read its praise in hundreds of para graphs and editorials in the agricultural papars thinking farmers should believe in and practice the
delusion.

$$
\begin{aligned}
& \text { delusion. } \\
& \text { Briefly s }
\end{aligned}
$$

Briefly stated, mixed farming consists in raising
to sell, a few cows, calves, horses beef, pigs and coultry, fruits and roots, hay, butter and cheese, corn, rye, spring and winter wheat. And in the language of the old song:
"Oats. peas, beans and barley, o."
The theory of the advocates of mixed farming ir more crops should fail, there would be others to
orll back upon. fall back upon. This plausible but delusive theory
is predicated on the notion that farmin is predicated on the notion that farming is not a
question of science, but is a question of luck. There are many farmers in our day more intent on planting in certain stages of the moon than They are in the pulverization of the soil; more con-
fidence in certain breeds for milkers than they nhence iJ certinn breeds for milkers than they
have in June-cut hay and ground feed; more faith
is boring holes in the horns of sickly cows than in
warm stables, More money is invested in the chase of new varieties of highly is pictured fruit tree All these praning the vines and trimming the trees, mate resultt of the widespread notion that fegitiall its varied branches, is not a science, and o insure suecess man is designed for the law, the medical pro attend some good school or college, and attend two or three years a special course of lectures, to fi
him to commence his life work him to commence his life work. He is expected to the history and the theory and practice of the lives of the most successful menoin the profession he has chosen. A liberal education in the arts and
sciences, in the laws of nature, in the history sciences, in the lawrs of nature, in the history of
nations, communities and men, enables him to form quick and correct judgment of the influence hat control the aetion and conduct of men.
But in the case of the farmer the opinion largely
prevails that a boy who has drudged in the treadmill of his father's farm can emerge from his teens foll-fledged farmer, fully competent to engage in mixed farming. They say he was brought up on farm, and knows al about it, He may be and
often is ignorant of the difference in soils, know but little aboot the nature and properties of the manures he ought to use, or what cropss he could most prich he lites. He knows buth ittle of the laws of trade, of the actual supply satd probable dcmand
for the various crops he ts trying for the various crops he is trying to produce; he has had no teaching in the intricate principles insuperficial knowledge of who his real competitors are, and whether their natural adyantages do not
greatly outweigh his closest economy greatly outweigh his closest economy and severest
industry. The best he can do is, to guess. .whether it is better to sell his hay, oats and conn, or put it into pork, beef or dairy products He He may spend a quarter of his life in raising wool on high-priced
land at a Oss, while his real competitor is growing
rich raising wool on cheap land An infelligent rich raising wool on cheap lanp. An, intelligent
understanding of the natural ad vantages pertaining understanding of the natural adyantages pertaining
to his locality, and thorough training in the
proper business adanted to an maty proper business adapted to that locality, might
have made him rich, contented and happy, instead of his unirequited labor, disappointed hope and financial failure. It is as absurd to suppose that
any one man can become a successful horticulturist, a skillful cattle ireeder, a proficient in raising grain, and a competent dairy mar, as it would be to suppose any one man could be an able lawyer, a
skilled physician, and a successful merchant. It takes the best years of man's life to become master of any one of these branches of aericultare, or
either one either one of the so called professions. Farmers
might and ought to learn a lesson from the ment of nearly all other kinds of bnsiness, and take some one branch of agriculture and make that the main business of life. It matters but growing intelligence, so as to utilize the patural advantagés with which it is surrounded. If raising grain should be the chosen occupation, then all ther business should be subordinate to the main
object in view; then accumulated knowledge and experience should determine the proper rotation of crops, the manufacture or purchase of fertilizers
best adanted best adapted to increase the yield, in
the purchase of labor-saving machinery,
and only such as is best adapted to aid this main object of raising grain. If the occupation of dairy farming should be selected, then all inquiry, obser-
vation and experiments should be directed to all crops raised contribate to the success of the dairy, the proper selection of cows, the most careful treatment, so as to promote health and con-
tentment among them, for in this contentment largely consists much of the profits of the enterprise, the manayement of the pastures and
meadows, the keeping up of a continuous supply of meadors, the keeping up of a continuous supply of
just the right kind of food, in its best possible condition, to produce the cheapest milk, the zonvertest perfection at the least waste of labor. The care of these products, while held in the manner, as close observation, as deep study, as long and patient labor, as it does to become a master
mechanic or a D D D in any mechanic or a D. D. in any of the learned pro-
fessions. Fifty years ago, "Mixed Farmin"" was more of a necessity than at present. Exchanges were made of the products, instead of selling and
buying for cash. I well remember, when and winter through the country and exchanged his hoes
for honey, feathers and butter; other peddlers came every winter with haddocke, fresh cod peddilers came
and exchanged them for pork, butter and
venison for a return load. Money exchanges from one
place to another were not made by draft but a one hundred dullar bill was cutin two pieoes and one half sent in a letter, and, on notice of its
safe arrival, the other half was forwarded. If the safe arriva, the other half was forwarded, If the
parties lived five handred miles apart the tren parties ived give handred miles apart, the trans-
action wonld require four weeks' letters with twenty-five cents postage for each letter to complete, the exchange.
common as mixed farming. A wason formerly as common as mixed farming A wago shop was a
place where, you gould get a two horse lumber wagon, an ox cart, a one Eorse dray, a two horse pleasure carriage, a one horse shay, or a wheel,
barrow made by the same workman. The farmers' trade with a wagon shop, a shoemaker or a blacksmith shop, was by the law of custom payable in
farm products farm products,
Large factorie
Large factories now run only, on lamber wagons,
another on carriages, and still others on wheel. barrows. Sharp competition has long since driven mixed manufactories out of the market, men work
to much better advantage by working at one branch of business. It takes seven men or boys to make one clothes pin to ad yantage. Every one works to
the best possible ad the best possible advantage, so that ho one man
can afford to make a clothes pin. What is true of this business is true' of all manufacture. Thus, we see large woofen thills where nothing but shawls
are mades'another for carpets, another for clotb. Precisely the same pribciple prevails in regard to
trade. We have wholesale and retail merchants. engaged exclasively in dry goods, others in
groceries, still bthers in hardware, clothing, boots and shoes and so on through the whole list of
staple articles." The same canses that hate necessity 'driven mixed manufaqures and trade into special hines wif as surely drive mixed farming into speciay productions; not alone for the
reason that 't "takes so long to accuire correct knowledge so ass to produce profitably many different kinds of prodincts, as for the more potent reason thà they 'cunnid be produced so oheaply.
Five farmers in a neighborhood engaged in mixed farming hecessitateif the purchase of, much, more
expensive laborsaving maelinery than if these five
 line of farming
self-binder and a dairyman does not require a
grailt, a grain farmer does not require a hay loader and tedder, a pork and cora producer does not reguire either of the above ters. Thus you' will preceive that the five farmers must have in the aggreate (for mixed farming) a larger amotint invested than would be necessary if
each one was engaged in some special branch of agriculture, atid the aggregate, receipts, would be
no more, and in all probablity would be less. It no more, and in alf probability would be less. It of all enterpisises must uiltimately be determined
by the anibunt of "capital invested and labor ex. pended, comparfed with the aggregate net receipts
obtained." Thut, the conclusion is inevitable that five fariters engiged in mixed farming, with vantates tollabor by the necessity of beginining and finishing thay small jobs of work required in mixed rarming, with no possibe chance of increasand are produced 'by fite farmers engaged in special lines of production. Therefore, it is a delusion to suppose triat tarce investments, increased labor and
lessened tecceints, can by any legerdemain, be made more profftable.
I would be glad, in this gonnection, to give ac-
curate statistics showing a comparison between curate statistics showing a comparison between
mixed farming and those engaged in special branches, but, after much inquiry, I was unable to give any intell ations. None were able to say whether their net receipts were five or five hundred dollars above
their expenses, but nearly all would assert that no farmer could make three per cent. on his investment. 1 have interviewed farmers engaged in
pork, raising corn to feed them, and clover paspork, raising corn to feed them, and clover pas
tures for summer use, with but small investments
f br barns for barns and machinery, whose profits were satio-
factory; also stock breeders, where the man was factory; also stock breeders, where the man was
adapted to the business; their profits were ample. adapted to the business; their proits
It might be supposed that it would be dificult to
procure acurate statistics of exclusive dairy farm. procure ac surate statistics of exclusive dairy farm-
ing, but $I$ have been unable to find anyone so en. gaged. All men are liable to have fits of the shallows, and it affects dairymen in this way: They
think they can raise better cows than they can
 hifif for twenty five dollars. No particular
breed; no extra care in rasising, and she has given
hy actual ky actual weight an average of $36 \frac{1}{2}$ pounds per day fit of the shallowe and raised four half. blood Ayrall, but not one of them eeanties and ave 36 praised py
milk per day, in the best of the season, and ye milk per day, in the best of the season, and yet buy. Being dairy farming, except myself, I shall therefore be
obliged to obliged to give statistics from my own farming,
which I should prefer not to do, hoping thereby to draw out volunteer stavements from some one enoccupations we may arrive at best resultts. It may
be paring that be proper to state that about one hundred tons o
hay, five hundred bushels of corn' six hundred bushels of oats and six acres of fodder corn were raised and fed out to the stock.
Statement of farm account for 1880: 211 acres
of land, 20 acres woods. Stock, 52 cows, 6 hotses 13 hogs.
Receipts for butter.
Receipts for sotyr
Receipts for sour curd.
Receipts for calves sold Receipts for hogs.
Total receipts from dairy.
Average per cow for 52 cows. Average per cow for 52 .
Other receipts from farm.
Total receipts from farm. Paid for hired help
Paid cost for board
Paid cost 23 tons of bran.
Paid difference betwen
Paid difference between 8 o
Paid for plaster and bought.
Paid plies ............
Paid fopars..................... and husking corn.........
Paid for taxes and insurance. Paid for taxes and insurance
Allowed for superintending.

Net receipt $\$ 92587^{\$ 3,72033}$ $\$ 92587$
40000
20885 7700 6700 9700 9700
7600 $\begin{array}{r}7600 \\ 11000 \\ 50000 \\ \hline\end{array}$ It will be perceived that the net reeipts terest over $\$ 20,000$, ient to pay six per cent. in invested in the business. Special farming in ad dition to being more profitable (as I believe), it is season, fewer kinds of crops are required; and one crop will not be running to waste by being over no thrashing until dark and the cows still to milk There will be no daqd shaep to skin on Sunday; no and no bunting calves to smear your. Sunday breeches; lessening the drudgery and increasing the
profits, will elevate the business of farming, and

Pural Drainage and Disease
Many farmers, otherwise well informed, do no neem $\begin{aligned} & \text { ntables, pig-pens, and out houses, may poison the }\end{aligned}$ pure country air as effectually as the atmosphere in the cities may be spoiled for breathing from the
same effluvia spreading from neglected alleys or same eflinvia spreading from neglected alleys or
cessepools. And the thrifty wives of farmers, who cesspolis. And hnd
forgetful of cleanliness, saturate the door yar
with wash water and kitchen gewage though al with wash water and kitchen sewage through all
the winter months, should be taught that when that grount sours and festers under the summer sun, the heat will ripen the germs of disease as
surely as it will ripen the grain in the harvest surely
field.
Mala
Maladies mysteriously affecting families residing in what are regarded as healthy localities are often
explainable on opening the cellar door, whence intolerable odor of decaying vegetables proceeds; or, on lifting a board of the kitchen floor, beneati
which is a shallow pool of standing water; or on observing that the well is so situated as to drain
into itself some of the substances that are throw away as atterly unfit to be retained in proximity The latter point is one very frequently over looked. For example, a certain city, finely located exceedingly unhealthy spot, and was of cours

Finally it was noticed that underlying the city, at
the depth of about twel he depth of about twelve feet, wass a a stratum of
impervious blue clay, above which lies an extensive quickeand, affording an abundant water supply by means of numergus wellp, and intor suat same quicksand all the vaults and cesspools of the place the drinking water that everyone used. The amount of siokness was materially diminiehed by proper attention being, given to this one point. hoap, and other refuse stored as food for the roots of grasses or vegetables, shall be ati such a distanied air and the water essential to the preservation of life and health.
In olosing, I may mention a curious illastration, given in a paper by Prof. E. T. Oox; on'the's In.
fuence of Geology on Local Diseases, " showing what has actually been done by rural drainage to eradicate a dreaded malady that usel to provail extensively in Kentuaky and IIdiana, known as was communicated to human beings through the was communicated to human beings through the
milk, butter, nad beef of the infeoted animals.
Many a brave pioneer lost his life by this mide. Many a brave pioneer lost his life by this malady,
which almost always proved fatal; and reeovery was usually lingering and imperfeot, At first it was supposed that the cattle, had, eaten some poisonous plant; but every suspeated grass and
weed proved harmless on scientific ex.mination. Then it was held that mineral poisons must lurk in the springs and brooks; but hundreds of samples Whe enemy. At last an investigation of the olay hales, soft rocks formed from ancient mud bed and which are microscopic, in an eminent degree, very affected locality, and it now seems olear that hey exhale some sort of miasma, When saturated with water, that originated or agravated the
disease, just as other kind of malaria bring on lisease, just as or Proceeding on this disoovery thorough drainage of the wet hends adjacent to the hale beds dried them sufficientlyy to terminate the so that it has now almost entirely disappeared from regions that once were curaed by that plague. The opinion is now established that, alarge proportion of diseases are of germ origin; and the
obvious mode of prevention is the deutruotion of the germs or their timely rempoval.
Professor J, L. Budd thinks that the Eucaarresting malarial disease on the fatal Roman Campagna and in other places, acts not only by
the immense transpiration from its leaves which soon distil the juices of the soil, but from actual antiseptic emanations, and by the absorption of eleterious gases. Wounds are healed and foul
ores purified by an applica ion of the leaves. He sores purified by an applica ion of the leaves. He
advises their growth as a house plant, and says hat a plant of his in an eight-inch pot, three yeart losing its large handsome leaves, Any of out read. rs could grow this as
ured of nurserymen
It is a popular fallacy that the moisture distilled
from the leaves of the black walnut $J$ uglan fter dew or rain is poisonous, the reason given for fter dew or rain is poisonous, the reason given for
the assertion beiog that little or nothing elee will grow near these trees. The real reason liess in the
act that the tree is a gross feeder, every root being act that the tree is a gross feeder, every root being
covered with fine fibrous rootlets, whieh are so many open mouths to extract nutriment from the crrent that five or six waluut trees in an orchard will destroy it, and though somewhat exaggerated, there 18 no doubt that the walnut trees exhau
noil to the great detriment of the fruit trees. Peter Henderson, in his essay at Dayton, Ohio, etc., which is a possible benefit for every gardeoer
wr wo years grown in tat cuttings for home adornment in a window-box containing an inch of mould, and wo or three inches of a mixture of washed mand and roasted moss rubbed filie, then an inch of mand cuttings, so as to aliow of a pane of glase on top to preserve moist air about the leaves in the dry livplanted so easily -the light moss remaining botable ork for planting pots. Previously dust from co
coanut fibre had been used, and that failing, dried ow droppings and charred saw

## The Apiaxy.

## Ontario Bee-Keeping Association.

This Association held their annual meeting in This Association held their annual meeting in
the City HaMl, Toronto, Sept, $13,14,15$. The
President, Mr, D. A, Jones, of Beeton, in his address maid:
Neriener was there such a severe winter in the ex many who were considered the most scientific bee raisers, in the country had lost all the posseessed in
consednence of the severe weather. The yield of consequence of the severe weathe President, was
honeyll last season, continued the
amail but the season was especially good for honay but the season was especially good for
small but The prices of honey, however, will be
breeding high, as butter is scarce and high in price. He
adinsed all who had honey to sell, to hold back for a time and a remunerative price would be ensured. One gentleman had told him the previous day, that
honey he would glady have accepted 10 c per honey he wound glady have ace feeks ago, he had since refusei poundr. The hives he said, shonld be carefully
prepared for wintering, and he would advise all prepared for wintering, and he would adver an
prepent to make such provision as would ensure the safe-keeping of the bees. He had
number of fine hives spoiled because they commumeed breeding in the winter. The proper re-
gulating of bees in the fall was much more imporgulating of bees in the gall was
tant than the wintering of them.
In spenking of the various species of bees, he
said he had been led to entertain a very high pinion of the apis dorsata species from the Holy Lapd, accounts of which have been very formether species of bee said to beve There was another species on bee said ro
better than this, which a European iriend of hi
had written to him about, and he trusted to be had written, to him about, and he trusted to be
able to say more about it shortly. Canada, he said able to say more about it shorthe Canada, he said bees, and he was confident that twenty per cent.
could easily be made by entering into the business with a will. Judging from the comparative success
with which bees were wintered this year, in view of its being such a severe one, it was fair to infer
that any sort of bees conld be successfully raised in Canada. The great hinderance to the successful raising of bees was the fact that the majority of people imagine that all they have to do is to set
the hive oun on a stand and leave the rest to the bees. This is a mistake. Bees, lik eanery must be
which is kept for the benefit of man, similarly provided and cared for, or they will neve prove successful. People should inform them selves on the sabject before they go into the busi-
ness, and then theory must be conjoined with praotice.
THE SECRETARY'SREPORT.
The Secretary, Mr. McKnight, of Owen Sound,
stated that a few weeks ago he had sent to the stated that a few weeks ago he had sent to the
members a form of entry for the Exhibition, together with a printed circular for the purpose of
ascertaining what progress had been made in ascertaining what progress had been made in
bee culture by the members. Twenty-seven ne hembers gathered the following:-Last fall they put into winter quarters 1,534 colonies, or an average of 56 oolonies each. Of these there were
1,264 taken out alive in the spring ; 216 were lost by spring dwindling, leaving an aggregate working
force of 905 colonies, or an average of 37 per mem. ber. At the time of reporting these 905 were in member, as against 37 in the spring. This showed that notwithstanding the unusual mortality among
bees last winter there are now in the hands of bees last winter there 27 members twenty per cent. more bees then these 27 members twent corresponding time last fall. The honey taken by the members who reported, amounted on an aggregate to 73,790 , pounds or an average of honey season. Over three-fourths of the amount was taken by the extractor.
The report being fonnd satisfactory, it was
moved by Mr. S. Webster, and seconded by Mr. moved by Mr. S. Webster, and seconded by Mr.
Dougall, that it be adopted and that a vote of thanks be tendered to the Secretary for the satisfactory manner in which he had transacted the
business ot the Association during the year. bueiness of the Association during the year.
Adopted.
The meeting then discussed the tellowing mintering.
Several of the members related their experience in wintering bees. Mr. Hall, ofth September and that he commenced
Nintered until 1 Ith April. There was a cellar
under the bee house, which was built with walls

16 inches thick, packed with sawdust. When he pat lost two out of 137 stocks. Mr. Jones, the President, stated that there was no surer way of killing bees than by disturbing
them in the fall. He had lost $\$ 1,000$ worth of queens in that way. He always tried to get as many young ones in the tall as possible. In reply a a question, when beekeepers were troubled with mice, they
should use arsenio, granulated white sugar, and flour in equal parts.
Mr. Wallace of last fall, had taken them all out. He had los last fall, had taken them and out. He had lost increased his by 67. He kept the temperature at 38 to 42 degrees.
Mr. J. T. Beech, of Burnt River P. O., near
Lind Lindsay, stated that his mode of wintering differed
from those who had given their experiences. He from those who had given their experienes, he had 40 .
had commenced with one form and now he The President had said that if he disturbed bees in
The fall it wh had disturbed his in December and some of which he had put out of doors were in better condition in There were dead bees found in the hives left in the and he did not pay much attention to the hives family used it for ordinary purposes. They kept potatoes beside the hives, an
the potatoes, and kept well
the best method of taking honer.
Several of the members related their experienc
the modus operandi of "taking honey." Th President said that he had had enough experience as to the best means of getting honey. He found
that extracted honey paid him the best, and he took" it almost exclusively. Mr. "quens to a number of frames, which depended apon the ize of the colony, and out of the cones behind th the members to take both extracted and comb honey. In taking it they might shat off a"queen on each side and place the section in th.
honorary members elbctei
honorary members elected.
$\qquad$ that the following gentlemen be elected honcrary
members of the Association :--The Mayor of To ronto;"Mr. John J. Withrow, President of the Industrial Exhibition Association ; Mr. James Mills, fessor Brown, Guelph, and any other gentliemen
the Executive Committee may wish to elect. Carried.
A lady sent two cakes to the convention, one ponge and the other ginger both of these had bee
sweetened with honey. The cakes were cut up were passed to the members present, who discusse
the merits of the cakes, which it might be sai were uncommonly good. It was statcd that a cake sweetened with sugar, as the honoy would keep it
moist. The chairman stated that if ladies would
mer use honey in making cakes they might do their baking in the winter time when it was cool, and resolved by the Association, that among the many ases of honey, its value as a sweetening in the pro pecially in view of the adulteration practised upon almost all grades of sugar, and this meeting take
the opportunity afforded by the presentation of the excellent cakes to oall the attention of the publi to the great superiority of honey to sugar in a
cases in which an absolutely pure sweet is desired. The officers elected for the ensuing year were a follows:-Hon. Lewis, Wallaceburg, President;
J. B. Hall, Woodstock, Vice-President ; J. R. McK Kight, Owen
full Committee was also elected.

## Wintering Bees.

Now is the time to prepare colonies for safe
wintering. First see that each colony has $a$ pro lific queen, and if it has not already enough honey be sure that the colony has enough bees to fill up
for winter as soon as the fall bloom comes. Each comb should have at least one hole through it, for
a winter passage for the bees to pass from one a winter passage for the bees to pass from on
comb to another, without passing round the frame comb to another, withoun passing round the frame
I have examined many colonies of bees that have been wintered in a a careless way, that were not provided with passages and have been starved with
plenty of honey on the other side of the comb. I
feel certain that if they had had a passage through
the comb they woutd have survived the winter.
If any colonies fail to gather, enongh honey for
winter, in the fall, unite all such together, tor you winter, in the fall, unite all such together, for you
can make one good colony out of two or three can make one good colony out of two or three
poor ones, and I often find oolonies thus treated
the very beest in the spring. the very best in the spring. This is my plan for preparing bees. for winter,
and it works like a charm. After the fall season and it works like a charm. After the fall season
is over for surplus, I take a blanket made the gize of the hive on top, and long enough to reach down to the bottom of the frames. Smoke the
colony, take on the surplus arrangements, contract colony, take on the surplus arrangements, conksion
the colony to the proper size, put in the division boards, fill the empty space with dry chaff or any
dry absorbent that may be handy such as rags dry absorbent that may be handy, such as rags,
fine hay, or straw; place the blanket on top of the fine hay, or straw; place the blanket on top of the
frames, then drop the end of the blanket down
back of the frames tuck the edgis in nicely, close frames, then drames, tuck the edges in nicely, close up the hive and all the top or upper atory with an
absorbent; cover the hive to keep perfectly dry absorbent; cover the hive to keep perfectly dry.
I bore a $\frac{1}{2}$ inch hole in the front of the hive, about of the way up from the entrance, front the hive
of on the south, and all is ready o the south, and all is ready.
I have wintersd my bees with success for at
least 15 years, and I notw whereof I I speak People are depending too much on chaff packing outside of the hive; they must have at least one
end of the frames to run to the hive without pack ing, and the ends should be the front, and the hive must front the south. Last fall I had 135 .olonies and my loss in wintering was 6 colonies, 2 , f which became quenless, 2 were distroped by mice, an
starve, and one died with dysentery, This has been a very good season for honey, My bees have had no rest since the fruit bloom; there has been a
constant flow of honey.-L. J. Diehl, in Am. Bee constant
Journal.

## Miscellaneous.

Advance in the Price of Hoksiss, The Boston ond cent. on the values current the past twh yeart. In act at no time within twenty years has there been n noticeable a scarcity of theroughly sound stock upplying their wants at from $\$ 80$ to $\$ 100$, are now forced to bid up to $\$ 130$ for animals counterparts of 1879 purchases. Truckmen, were last autum now compelled to pay $\$ 425$ to $\$ 550$ for duplicates to these pairs. The most persistent demand is for ark-colored, well-bred earriage horses, in closely matched pairs, eack horse el ghing about twel and stylish team, though not fleet, will secur from $\$ 600$ to $\$ 1,000$, the price advancing from th ower range upon their
their evenness in speoding.
A large lumber business is being carried on by parties in bridgewater, Nova Scotia. Messrs E. season $15,000,000$ feet of lumber; Dufús \&. Co.'
mill at Summerside will cut $6,000,000 \mathrm{ft}$. C . H Chase expects to cut $2,5000,000$; Alex. Netson will cut $1,000,000$ ft. ; Jas. A. Carll expects also to cut $1,000,00 \mathrm{ft}$, a gain of about 8 per cent. This gives employme
to 700 men, and supports 3,000 people. This is good for the county of Lunenburg. And all - the
branches of industry in a country tend to supply to the farmer a home market.. Miechanios as well as
ther workmen must have their supply from the farmer.
When fattening an animal for beef let the process be as quick as possible. Any stint in feeding
will make the meat tough and dry. Stall fed ani mals will fatten more readily than others, and In winter fattening depends much upon the tem perature or the stable. The wan ur Poor shelter, care, feed and drink, will in a few
generations make scrubs of the finest thoroughbred stock. Thoroughbred scrubs are but little better than native scrubs; and the farmer who raises either will continually be poor. Breeding the best
stock, and keoping in the best manner always pays stock, a
best.
A writer in the American Farmer has tried the Collowing, worked well into the sod under pear
trees to prevent blight, and, so far as tried, with satisfactory results: One quart slaked lime, one
quart salt, one quart bone phosphate, and one quart salt, one quart bone ph phe
ounce of sulphur for each tree,

November， 1881
THER EARMER＇S ADVOCATE

## Guelph Exhibition．

The Union Exhibition held at Guelph was very
ane poorly attended this year．The cause or this was revious years，thus necessitating the reduction of ormerly been．The stock and poultry exhibit was good．The thermometer took a low dip just fter the hor we never saw made in any such display． sher havoc we never saw raade in any suck was the the only place where the Model Farm made a show o heme good animals to their herd．There was a ine display of Herefords．A prize for the bes herd of cattle of any breed was given at this Ex and Herefords，and the latter carried off the prize nd Herefords，and the latter carried off the prize
Perhaps it would have been better to have held Perhaps ib would have bexibition a little earlier in the sea

The Great Central Fair，Hamilton The result of the Central Fair is summed up in the words：A good show and a large attendance On the was the subtject of complaint here also．Up to noon of the first day no department was complete， and many contained only a few of those that had
been entered．There were not many people on the ground．The arrangements，however，were com－
lete，and the exhibitors received every attention Prete，and the exhibitors received every attention
from those in office and were afforded every from those in office and were aforded ever
facility for getting the articles into place．Wed
nesday merited the name of the Farmer＇s Đay； nesday merited were naarly all from the country．
the visitors wer
There 12，000 people．on the ground．The receipts at the gate during the day anounted to Wh Railroad conyyyed to the fair over fonr hun－ dred visitors，and，the $G$ ．
crowded with excarsionists．
The grain display wae large and of superior
qualitye The wheat was in especially good con－ quality dition there were some very choice samples Mr．Smith，Emigration Agent，purchased，sevin in bage of very cine grain and a a，sample of the grain that is grown in Ontario．The show of not large，but of extra quality．
exhibited some very fine stilton cheese and some exactory－made；but the exphibit of dairy products， fan the whole，was very small．
The exhibit of Durham cattle was large and ex cellent，the greater port There were one hundred
ridings of Wentworth． entries，many of them animals that could not be entries，The Devons were fewer in number，the
beaten．The exhibitors baing coines there was a very fair entry． There were not as many competitors in this class as in the Durhams，but among them，however， a number of the exhibited．There was a lively competition were exhibited．
in the classes of grade and fat cattle．
The number of horses exhibited in each class was very large．Especially wase horses．Blood the class of Road and Carriage horses．Boo horses were were well represented，so
Agricultural and Heavy Draught horses．There were some quite superior animals
There were large lists in nearly all the classes of sheep．There were seventydeightentries The entries of Lincolns were not so numerous．In the South of Lincolns were not so numer fifty entries，the
down class there wele ove animals coming from a wide
eing described as first－ciass． 118 animals exhibited．Of
In pigs there were these thirty－three were of large breeds and eighty－
five of small breeds－Suffolks，Berkshires and five of

In agrioultural implements there was not a large In agrioultural the implements now considered
exhibit；but all the essential to improved farming were there．The are most of them sach and and are well－known to our readers． The display of fruit of all kinds was magnificent． There were choice specimens from the Grimsby Nrait－growing districts of Canada．Of apples there
was，for the season，a creditable display．The was，for the season，a creditable display．
display of peaches was very fine，notwithtanding display of peaches was
the time of the year．
being but few entre scarce，there

Pears－The exhibit of this delicious fruit was an
exceptionally fine one．There were sixteen entries exceptionally fine one．There were sixteen entries
Of Quinces there was but $a$ small exhibit，but the specimens were good．There wereib the crownin red plates of grapes，making
cxhibit in the fruit department
The display of flowers，ferns and folia go plant Tas an excellent one．
The show in itself was announced to be a finan carry over for the n 3xt fair．

## The Provincial Exhibition of Prince

 Edward Island．The exhibition this year was a very creditable
one；it may．be pronounced a great succeess，and，on the whole，a good representation of the industries samples of grain－wheat，barley，oats and buck wheat－exhibited were not inferior to any in the old provinces of Canada．The attrs shown ath 48 lbs．to the bushel，and those shown at the Pro－ oots and other farm products were all not to be urpassed．The potatoes shown maintained the putation of the Island for this valuable crop．The varieties for which prizes were obtained were
Rose，Burbank Seedling，Prolific and Blues．
The show of horses（whose superiors，it is said，
are not to be foond in Canada）was certainly of high oh r racter．In this class there were awarded twenty－five prizes
The exhibits of cattle bore testimony to the great improvement in stock in that province． There was an excelis breed fourteen prizes were
Shorthorns．For ther awarded．For Ayrshires the aware
welve；for grades，twelve；and three awards for twelve；for
best steers．
There was an excellent exhibit of sheep，whose
ondition proved that the climate and soil of the provinee are well adapted to this stock．Leices ters still msintain their position in the province，
For this breed twelve prizes were awarded．For For this breed or Southdown，grey or black face， twelve prizes；for sheep of other clas prizes．
The sh
The show of pigs was very creditable，so als
was that of poultry．The exhibit of agricultura was iements was not large or varied
The show of fruit was not large，though ther were some very fine specimens of apples，plums， damsons，grapes that the science of Horiculture－is progressing in the Lsland．The butcer an being as
exhibited were all dairy－made，factories yet unknown in Prince eaward．There were， work．Without them our agricultural exhibition world be incomplete．
The Central，or Midiand Exhibition This exhibition was held at Lindsay on Oct．4th，
5th and 6th．From its central position in the 5th and 6th．From its central position in the
midst of enterprising farmers and stook breeders， midss of enterprised forward to with interest．Th fall exhibition of 1881 was，on the whole，very
successul，though the number of exhibits in some successful，though not so great as in former years．
departments was no This was especially the case in products of the garden and the dairy．To the unprecedente drought of the summer and early autumn aontirbted．
comparative falling off may be partly atribut comparative exhibits in nearly every class within the
The exh of
bnilding were far short of those of four years building ware far short of those of four year
anc when the exhibition was last held in agc when the exh the number of exhibits was less than had been expected，there can be no doubt of their superior quality．Any disappointment
was felt at the small number of entries in the was felt at the smail number of was，however， horticuttan made up by the admirable exhibition o live stock．On Tuesday，the opening day，the
grounds presented the appearance of active prepar－ grounds presented the appearance ，the exhibitors
ation；from an early hour till 2 p．m．the were busy conveying stock，farm produce，imple－ ments，\＆c．，to the grounds and ang was the great day
their places．The day following their places．The day attendance was very large， there being not less than 10,000 persons on the ground．The receipts were about su，sess．
so that financially the show was a succes． The live stock department was one that it woul
be difficult to excel；this was the main feature of
the exhibition．In agnculditral implements the
oxhibit was very fair．In the hortioultural there were some very fine specimens in its differver crall，thagh was infrior to some former exhinite， owing to the droght．The iltatal num．
of entries was about 3， 500 ．The tho of horses was especially good；the number of entritios in this depaptment was 252 ，including 11 bIood heavy draught horses．The diglay of sboak in
cattle was fuly equal to that in horsed and zfford． ed a most satisfactory indication of the zimereasted attention now paid by farmers to the dqualitity of
 quadist， 32 the number of entrios wai 127 bomishin－ ing Leicester，49；Cotswold，44；Southdown，${ }^{27}$ ；
and nnolassified， 55. The poultry dowâtment
areated a keen interest；the orush at their ${ }^{3}$ houne created a keen interest；the orush at their
was very great，and the number of exhibit
greater than could be well acoominodetoit．

## Manitoba Agricultural Exhlibtioh

 The Agrioultaral Exhibition of thin provimee it of general interest．Manitobs，with groan fertuity， and the vast extent of the great Northo mares，with its vast resources，are of deap interant，not mperely to（lanadians，but also thenand Britain and the continent of Earopee The PYotincial Exhibition was opened in Winilipeg of Trees diay，October the 4 the The woather was sory

 of the roads was such pas to prevent the larest ittend
ance at the Exhibition that there would thave been otherwise．In spite of bad roude，howevert the attendance was good，and the Provincill whe on C．In the pavilion agreat object of attrration wit the the pyramid were arranged specimens of the variou R．Very conspicuons among the produetw wer many varieties of the native grasseg Tho main diaplay on the terraces was that，of the vatiou
cereale，some in the sheaf and some threahod，and
． cereais，
intersporsed with superior peceimens of potatoees，
and the whole was bordered with native flowers， and the whole was b
pressed and preserved
The staple prains made the fivent disile The staple grains made the finest diaplayy ever
made at the Provincial Exhibition，though not in such large quantities as at our Ontario ohows ；but
the quality was all that could be desired．Spring wheat was represented by twenty damples White
Fife，Red Fife，Russian and Golden Drop．Of the twenty samples there was not one pound that could
not be olassed A No．I．Barley，next to wheant， not be classed A No．I．Bariey，next to wheat，
may be considered the great staple grain of the
The specimens exhibited wore in province．The specimens exhibited were in province．and brightness at least equal to any on the continent．Of oats there Was a good，though sam a large exhibes of pea and beans there were fow
amples and not worth mentioning．There was samples and not worth mentioning．There was
one sample of Indian corn，the white sugar vifiety． The sample of ndian corn，the whicsugar vationg being unsurpassed if not unequalled seem to be
of Hebron，Early Rose snd Climax seor very large and in quality first－rate．
The outside department，in Dufferin Park，wa not very large．The small number of extibitita was attributed，in part at least，to the condition uf the
roads．Horses made the best showing．For blood horses，roadsters，carriage horses，agricultural horses，roadsters，carrage hoses，there wer
horses and heavy draugt horses，
awarded in all forty．four prizes． awarded in all forty－four prizees．
In the cattle stalls were to be seen a fow a
fine animals as could be produced anywhere fine animals as coul be produced apywhere
Two or three bulls，Ayrshire and Durham，were objects of general commendation．For pure－red
bulls and cows twelve prizes were awarded and for bulls and cows twelve prizes
grade cattle the same number．
The sheep exhibited were Cotswolds，Leicoster Thd Shortwools；but there was not a large display． The swine were Suffolks and Berkshires．The
display of agricultural implements was simall． display of agricultural implements was seray．
dairy product the premiums for bater were in
four classes－for shipping，crock butter，table four clasases－for shipping，crock butter，table
butter and home－made cheese．，For prizef for domestic manuaract．
many competitors.

CORRESPDNDENEE


Notros ro Corraspordnawrs. - 1. Please p witte on one side of the paper only. 2 Give full name, Post-Office and Prov
ince, not necosearily tor pubtication, but as guarantee of good trith and to enable us to answer by mail when, for any reason that oourse iseems desirable. s, Do not expect anonymous commanicetions to be noticed, \& Mark letters "Printers
Manuscript," leave open, and postage will be only 10 per Manuscript," lease open, and postage will be only le. per
$\%$ ounce. We do not hold ourselves responsible for the view of correspondents.
$\triangle$ BREEDER'S UIEWS ON THE SHORTHORN HERD.BOOK. Str, - The question of control of the Canadian cattle already registered, having arisen between the breeders of pure Shorthorns and the agriculagriculttural oommunity question is in whiterested, and that whole not be decided without serinus consideration and the consulting of all interests invoived; and
as a very large number of farmers are not very
well posted on the thorough.bred question, Well posted on the thorough-bred question, I have
deemed that a letter on the subject from a thorough-bred breeder might not be unacceptable of this number.
The foundation of the system being a law of nature, that "like begets like," this is being as well as animals.
From very eally times there has existed in the
North of England 2 bred North of England a breed of wild cattle with strong
distinctive qualities, while in color these are supdistinctive qualities, while in color these are sup-
posed to be the original of the "Shorthorn." Over a hundred years ago the cattle of the country
were noted for certain qualities excelling all were n.
It occurred to two men, Bates and Booth, that
by eareful selection of animals of both sexes, notably pre-eminent in certain qualities, these quali-
ties would be further developed by continuing the same family, choosing only the most perfect, culling all that were not up to their standards, these quaities would be established. cattle traced by registered pedigree in dam and sire direct to the founders of the various families,
fully fully proves the soundness of their judgment. It is not to be supposed that there were no other cows
or bulls in England of equal excellence with these originators, as undoubtedly there were and are. But on account of the acknowledged excellent
judgment of these breeders, we feel judgment of these breeders, we feel confidence in
animals that can be traced in an uninterrupted
and line to these herds, that we will not be disappointed in obtaining the results we aim at.
Now to the question of the moment, "Shall th Now to the question of the moment, "Shall the
Canadian Herd Book," the property of the agricultural community of Canada, be handed over to an association of a portion of the breeders of Shortgreed animals of the class?
may be traced by its recorded pediure an animal cording to the fidelity with which it is kept, is evidence as to professed purity, namely, the
amount of blood that may be called for, whether of imported or local celebrity. It is intended to mprovement may and will takedifferent dire. This Qualities called for may be
Beef $\left\{\begin{array}{l}\text { Qualiny } \\ \text { Quantity } \\ \text { Maturity }\end{array}\right.$
Dairy $\left\{\begin{array}{l}\text { Milk } \\ \text { Cream } \\ \text { Butter } \\ \text { Chese }\end{array}\right.$
Adaptability $\left\{\begin{array}{l}\text { Soil } \\ \text { Climate } \\ \text { Food. }\end{array}\right.$

No honest breeder would recommend an ordinary would recommend his procuring a cow of well known indigenous stock, that is, one that had been
acclimated for several generations, and possessed of the individual characteristics required; and using a
pureibred bull of a fanily possessing the qualities
desired
through the country possessing in a marked degree
these individuatities, sand would it be just to a man posseesect and pudicionsly im prove a famil thus specially adapted to the requirements of the country, to shat him out from gdaranteeing thi prodion? Ir is also a security from piracy.
no No. Shorthorn breeder wourli be affected in the
sale, or misled in the buying of pure bred stock, a sale, or missed in the buyyng of pire bred stock, a
he would trace the animal's pedigree to its earlies source Furthermore, any shorthorn" recora
now started will soon require to be further re modeled on accoumt of the diff crences between the two principal tribes namely, Bates and Booth, for
even now no Bates breeder will risk the character of his stock by the introduction of a Booth bull into his herd, although the Booth may possess
qualities thought by some superior, yet the types qualities thought by some superior, yet the types
are so markedly distinct as to neoessitate a different Herd Book, and cause objection to crossing. Taking this view I think it will be generally
admitted that it will be better for the H. B, to remain in the hands of the Agricultaral Associa tion. I would suggest the raising the qualificiaand the shutting out of grade balla entirely. I as trade marks, thus preventing confusion from as trade marks, thas preventing oon,
using the same name by different herds.

Columblla.
TAX OR NO TAX ON BULIS?
SIR, -This is a subject of great importanoe to the
public generally, and one to which for some years I have given thought, pro and con, and have come to the conolusion that a tax should be plaoed on
bulls. The questions to be taken into consideration ars as follows:-
or not th
2. Should all male animals be taxed
3. If
3. If not, what class of animals should bear a tax? disposed of.
At present I merely write on taxation of the male bovine tribe and shall entirely confine myself to them; in doing so, your readers must not think
I wish to place an unnecessary burden on the back of the farmer. My object in writing is to court the opinion of the public on this point, and to see
what is best for the improvement of the what is best for the improvement of the stock of
our country. Private feeling must give way when our country. Private feeling
the public weal is concerned.
Now as to the
Now as to the first question. A few years ago
when the country was in a transition ste when the country was in a transition state, from
forest clad ground to the cleared bush, it wonld have been premature to have placed a tax on bulls; that time has now pretty well gone by. In con-
versations held with high class breeders, and more particularly with those who are breeding up, with imposed without int rrfering with the liberty of the subject, and the stock of the country improved in
a very important degree. a very important degree.
No one who has read the
Agricultural Commissioners can doubt that a time has arrived when more attention must be paid to hands; I I am referring to our English market, and
if we allow our chance to flit by, we have only our selves to blame. This country possesses most valucountry and see the feld we carrying the through the stock we do, stock that would take double its value to make it fit for 1uarket, we are led to ask, how
is this? Simply this: Geod stock is in the hands the few and not of the great whole. Wherever enterprising men have imported good stock, we see an improvement in that immediate locality, but even with such an advantage, when a superior
animal is close to the door, we find the ignorant
and the penurious man will and the penurious man will drive his cow a mile or
two past the good animal to be served by a two past the good animal to be served by a
wretched grade, rather than pay a fair price of say \$2, for the service of an animal that would
produce a calf worth $\$ 5$ the day it was dropped. I have heard many say they do not care for the
calf, they only want the milk and that they kill the calf as soon as born. I can only answer such
an one in the following terms, "Oh, murderer of the inlocents! have you a right to deprive your ellow creatures of good veal to gratify your his wantoness, thus, as a very large number of the

and would willingly pay a fair tax. Some think
only grade bulls shonld be taxed, others hould be taxed, the grade bull to bear a heavier view, but with certain exceptions, which thet shal mention in due course Many farrmers "Will' think it hard perhaps that they should pay a tax for a
bull kept for the serviee of their own' stock' to meet their view, isc a liberal way', $I$ would advance my exception (i. ei.) I would allow a farmer the right to keep a bull (purie' bred of course) for his own use, provided he is not allowed to serve other
animals than his own, with or withoat proft, such buhs to be exempt from inty. Having advanced thus far we natarally refer back to the original
question, "Shall all bulls be taxed?" I think' all bulls shonld be taxed when let at profit or for use to other cattle than the owner's own stook. There can I think be no objection to this, and will therebe $\$ 5$ per annum, that to be charged on a grade or unpedigreed beast \$15. Some are of opinion the latter tax should be higher; 1 think this would we should no longer see the disgraceeful animals in the country, so disgrabeful to a god breeder ${ }^{2} \mathrm{~s}$ eye.
I can fancy I hear the slovenly ard andedated
. I oan fancy I hear the slovenly and aritedated fathers, why should it not do for man, you have other intéreste' to consider कo beside your own; the country callts tupo all to exert themgelves in providing good fod "for the world in
general, and if you will not tome out of your stiell we must draw you out; no longer can ${ }^{\text {a }}$ you be allowed to injure your neighbors. Why hot say, how do I injure them? Why, first of aff, 'you de-
prive him of his veal, you then raise an anfimá that prive ham of his veal, you then raise an animain thiat
is unmarketable, and worse than all, yote teep an
 case of this latter injury occtirred a coupite of
weeks ago in my neighborhbod. ${ }^{\text {a }}$,

 his yearling heifers "were grazitg" sind "spoilt a
valuable heifer. I am plad"to say the breder made the owner pay \$15 oosts, but this what' very small sum in comparison to the misckief donie. I
have counted as many as three scrub balls grazing have counted as many as three scrub balls grazing
on the public road near some valuable Shorthorn stock. If people will be so perverse atid keep stoch animals to injure their neighbors,' they mast be
taxed; the taxed; the community calls for it Then cothes
the point, If bulls are to be taxed, what is to be done with the tax? I would' propose 'that the' tax be raised in the same way as other taxes are raiised,
and all bull daties should be handed over to the and all bull daties should be finided over to the directors of the township cattle shows, in which
levied, and applied by them in prizes for ment of stock, and save the present grants, if I mistake not, at least half of them; but if this should not be the case the tax will work well for improving the
stock of the county. The time has come when we must look at what other countries are doint. Our neighbors in the States are far outgoing us in "the colonists are doing , our brother and other European countries are vieing witfi each other in stock raising, getting the best animals. So we must use the whip and spur to drive those beand who are contented to dray on in the "old groove. When I tell you that it took at shipper
the pest part of six weeks driving round this part of the country this fall to make up two car load of cattle good enough for Manitoba, you can hardly be surprised by my advocating the imposing of a
bull duty. I dare say many will differ as to the of the country oculd be easily ascertaired opy asking the directors of the county and township shows to put the matter before their neetings in a calm,
dispassionate manner. I do not fear the result; I have but one view in writing, viz., the welfare of
G. F., Oakville.
all classes find the advocate usepul Sir,-I like the Advocate very much. I am a carpenter, and have a small place (about an acre),
which is in fruit trees. Last year I raised over 75 barrels of apples, besides other small fruit, and Iand in 25 years. 1 am going totry raising peaches. am going to try and get the kind you mention and take them home with me if I can get them.

AN exhmbiror's critceism on The provinclal Sir, -Now that the shows are over, and people
have time to think over all that they have seen and heard, it might not be out of place to make a few remarks on the show just held in London. The ber of pedlars, mountebanks, quack doctors and side-shows that kept up a continual howl and had
no business there. They may add a little to the funds of the institution, but take away from the on for its worth, and have none of this trash on or near the grounds, ,. Those fellows are only on the who patronize them wou
and ouse to better purpose
The implementit show wowe. was excellent, but we think that they should be supplied with sheds to protect engines to show would be willing to supply the power for the sake of showing their ongines to advantage. We know there would be extra expense,
but that might be helped by adopting the old country plan of using canvass tents; these could for another, thereby saving great expense. The same might apply to the stook: True enough,
there would require to be divisions, but perhaps fewer than at present would do. These tents are said to be very satisfactory in Britain, and if so,
why not here ?
The money thus saved would go why not here Prize money thus saved would go to swell the prize list, and thereby inorease the
usefuluess of the show, placing it before all competitors.
The stock was, as usual, pp to the mark, and in our iutention to generalize, but to pass on and give some things that appeared out of place:
The first, thing is, the two weeks system is a total
failure. There would have been / a good many failure. hibere would have been a good many
more exhibitors had the show been for one week. People cappot spape the time, and if persisted in, it will seriously injure the show. There are plenty of exhibitors wh don't care a straw for any show
but the Provincial, and we saw peveral who would have been there had it not been for, the long time they had to stay.
The next thing wrong is the appointing of
judges How these menare appointed we do not judges, How these mena are appointed we do not their knowledge of the classes they are about to
inspect. We will give one or two instances that inspect. We will give one or two instances that
we can vouch for. One set of judges on Devons, not many years ago, were sure they were in the wrong ring, "because," eays one, "don't you see
them them going into that other ring with their whit
faces.? Another judge came up to us and said he faces. Another jugtied, as he did not know anything about our class of stock, We know of many more cases of the same kind, some even worse
There is surely a remedy for this, or are we to say thate there are not enough of men in Canada $t$ judge the different classes of stock? We believe a remedy for, this would be the appointing of one
judge only, because a man knowing that his jnd judge only, becanse a man knowing that his jod more wary in taking a position he felt sure he
could not fill. There are plenty in this country plain enough spoken to tell
Our new Secretary is a decided improvement,
and if he continues to be as civil and obliginy in and if he continues to be as civil and obliging in the future, we feel sure he will go a great way to
wards improving the fair. His task is a hard one during show week, requiring patience and tact to please all.
There were several complaints among exhibitors
as regards the Superintendent's office. We do not know how many pass tickets he is allowed to insue but it it hardly fair to grant one man two passes
for eight head of cattle, and refuse another any more than two for twenty head. Another case was that of an exhibitor who wanted to mak another dam on the creek for convenience sake, to feel high in his position.
The herd book came in for considerable discus sion among the exhibitors, but we will giv Another thing condemned was allowing the band competition and dog show to be outside the grounds. True, the latter was inside the fence, but people felt that they should have been part of
the show. We know of cases wh:re parties came to see these shows, and never entered the Pro-
vincial. I hope to live to see the Provincial rise to such a standard that it shall be equalled by few,
excelled by none.
PLowboy, Guelph, Ont.

Sir, THE APHIS- HaRdY APPLE TRERS. SIR, -My young apple trees are infested with a
small green louse which adheres to the under side of the leaves and cluster around the tender shoots. They do not, eat the leaves, butsuck the life-blood them, but so far have not aecomplished anything. What mus otherwise are in a healthy condition anything I can do to prevent them from coming on hardiest varieties of summer, fall and winter apples. We live in the county of Renfrew (the
most northerly most northerly county in the Province of Ontario);
we have paid out anmally thousends lars to tree agents for apple treess, and to my
knowledge there has not a sinle tree maturity. If there are any varieties worth cultivating we would like to know them and where
they can be got [The inseet with which your apple trees are in fested is of the aphis family, commonly named bark louse. The worst enemy we have affecting which is a very troublesione though y very rininute one. You may, when the tree it inffested, Bee
the bark of the apple tree covered with laryo. It is generally detected in the covered with larye. 1 somewhat resembling an oyster shell whence its name. If the scale be lifted ui in Aligustior Sep
tember, there will be diselosed a large number of small eggs underneath. These eggs remain under ing summer, as soon as the weather gets warm, the young nnes are hatched out. They wait for a they seatter themselves over the twigst of the tree and when they find a suitable spot they fix themselves upon the tender growing part, insert their
beaks and become permanenitly looated. They go on sucking the juices of the tree until about the
ol atter attain their full size and gradually form the soale within which the eggsare deposited, and the female The apple trp and dies.
family) attacks the terminal growing shoots. It is similar to the plant louse described above. A
strong alkaline solation spplied to the berk is the most efficacious remedy. Apply in April, and again in June, and, if needed again, an are found in a large number of plants-the shidain aphis, the cabbage aphis and the apple aphis have the aphis is excessive, The productiveness of four young ones a day, which are able to produce offspring in like manner when three days old, so progeny of ene camalated that in twenty days the ndividuals Fortunately there are various checks imposed upon their inorease. There is probably no The hardiest variety of apples.-At the Waba Nurseries, Renfrew county, of thirty hardy Red Astrachan, White Astrachan, Tetofosky, Duches
vald of Oldenbargh, Fameuse, Twenty-ounce, English
Russett, Pomme Gris, Peaeh Apple and the Wallbridge. Out of all these sorts the only varieties never injured were the White Astrachan, the Tetofsky, the Dachess of Oldenburgh and the
Peach Apple-2 summer, 1 fall, 1 winter. In buying trees to plant be careful to get those grown in a similar climate to your own. Those grown in a
southern country or district are not as hardy for your purpose. If possiblo, bay treees grown from
yeud produced in a climate as cold as your own.]
SIR,-Would you please answer the following four years old; I mulched it with coarse straw and planted it with corn, and now a number of the trees have bursted, near the ground, about four to
six inches, and the bark becomes loose. The trees have grown very fast this summer. What is tre cause, and what should I do to save them:-
A. S., Laton P.O., Ont.
[The need of draining is most probably the cause of the bark of yoar apple trees bursting; but you
have not said if your ground is wet. Water on the surface of the ground might produce that
effect. The quantity of coarse straw as mulched effect. The quantity of coarse straw as mulched
would prevent the evaporation of the stagnant water ald the access of air and light to the soil.
Orchards are frequefitly planted in soil that i naturaily unfit-a cold, wet soil with a hard, ten acious subsoil is not suitable for the growth of
fruit trees. Such a soil should be underdrained
and subsoiled. Sandy loan or gravel with a por-

 hosthief and the bark is not wp to tot ooosel It stem exposed to the sun an

## READ YOUR BACK NUMARRS.

Sir,-As a subscriber to your valuable paper, I am thinking of taking. A great desirant to push aniy farmers in this part of thy has laid hold on mong the number. Some have been thinking of going to the Western States, but others, profiting given in the Farmirr's Advocatk, have deefided wo to go there, but to turn our fanes to Manitoba. would feel obliged if you would lot ys knaw hrough the Avvoca, it you think inch a move
would be advisable, and for so, something of the nature of the country, tits soil and the method of arming there. I ask you becadise we known we the Advoatis.

## aygeon, Ont.

(In reply to "Maskoka" We adrise him o will find this question funy treated of in more han one instance. See for ingtance, a priee eastay CTE by an old subscriber of the paper, who was a the subject he wrote upon. It would be well for our subscribers to preserve their numbers for refornee and have them bound in yearly volumer, as we cannot occupy our space with repenting the in-
ormation that it once contained.]
vercies.
Sir,--Can you give me some information about Vetches? Are chey a pronitable crop to arowt
What is the best soil to plant in? Does it need to a highly manured? I have a piece of black munok traw grew caite rank, and the oats filled out, wall jut were bady rusted. Do you think it Would be good soil to put vetches in? Are they good for
milch oows and to gies working horseel? E.S.P.
Carleton Conity Carleton County, N. B,
[Vetches are not much grown in Canada, though
England they are considered an very profitable rop for soiling. Our short ppring and hot sumitaber seem to hinder the axuriayt growth that is proboil that will produce a good ont or other cerveal ion is the same as that if peas of variety. They have the same beneficial effiot on te ground why re they are grown-fertilizing, in-
stead of impoverishing the soil, and smothering weeds. They are good for milch cows and for ofses; but horses should have in addition a portion or dry food -hay, or hay and oats. They aita also
ood food for pigs. They serve as a subatitute for clover where it cannot be grown or has been killed arom any cause. They may be fed in the green
state or cut and cured for hay. When used for the latter purpose, they should be cut about the
time the pod is forming. They should in all ases, be sown with oals; enough oats being sown to keep the vitches off the ground. Spring vetohes
are the only variety successfully grown in Canada.] Sir,-Would couting maples. ate what is the best time to cut White Maplen? [Do you refer to the silver maple or poplar? (it
is known by either name) If so, grab it out at newood, and its. shoots worth very little, even for naple, hard or soft, is a valuable tree; neither of mape is a white maple. The proper time to prune
the hard or soft maple is after the leaves have allen in the fall, or in the early part of the

The crops are turning out well in this neighbo bood. Wheat will average 25 bushels per acre;
nats, about 50 bushels. Prairie fires are now rag. ing in most parts of this country. A good deal of
fencing and some stacks of hay have been burn The weather has been cold this last week with P. M. Beaver Creek, Man., Oct. 10.
ing a class of work which none of our tools in the
market can claim to do, viz., soarify and dress market can claim to
rows of corn or beans, or hoed crops of the like
kini, without the use of the hoe or hand work, kin, without the use of the hoe or hand work,
beginning its work where the cultivator leaves off, beginning its work where the caltivator leaves or,
and with one horse doing 15 acres of corn a day and with one horse doing los acres of and doing
where the conditions of tillage are good, and
that about as well as is nually done by hand. that about as well as is nsually done implement
His greatest novelty was a combined imple His greatest novelty was a combined ionplement,
which could be worked as eleven different tools, wo that with it he oould fot land for planting, could mark it out, plant it to corn, beans or potatoes, and pot it
season with two horses, the farmer riding and culseasong two rows al a time, or abont 12 acres a day. It operates also as a potato digger beans and
bean puller, so that in the growing of potatoes he had repeatedly prepared the grounds planted and tillod the crop through the season, and harvested them with this tool alone. His
priacipal claims for its utility were that with it a priacipal do two, and in one class of work three rows at a time, do it better (for all is held to as
perfect gauge and depth), and the economy in so perfect gauge and depth), aning made mostly with
combinng is such that being steel, and as well and durable as can be made, they will only cost about one-half what they would as separate tools. All his tools were toing a farmer, he
work to the show grounds, for bein work to the show grouns, the tools to fit the work he was doing, and as they proved practicable made a few more,
which have been well tested by other far 'ers to which have been well tested by other far , ers to
establish their merits. H. Ivks, Batavia, N. Y. [We are pleased to hear of new and improved
We should like to see the impleThe are pleased We should like to see the implement referred to in operation. Perhaps our cor-
respondent might inform the manufacturers of the respondento digger that we might insert a cut of it
best potato best potato digger that we cultivator, if good, neat
and also of the combined cats were made, as many of our Canadian farmer desire
such.]
$\triangle$ patent for making manure
Sir,-There is one George A. Kay, from New
Bunt Brunswick, seng manures in Antigonish. Could
ways in making ways inform me through your magazine if his pat-
you in ent right is used in Can
it. He charges $\$ 5.00$.
a Constant Reader, N. S.
[We have never heard of any patent of this kind being sold in Ontario, and we would advise our readers to let the vendor severely alone. you
best method you can have for making manure you will find published in the ADvocatr from time to time; see back numbers, and be sure and read those which are yet to be issued when you receive them.
A law should be passed to protect farmers and A law should be passed to protect
others from travelling swindlers.]
Sir,-Oar harvest, on the whole, is not ap to the average. Potatoes are hoing bought up by speculators, prices ranging from $\$ 1.50$ to $\$ 1.60$ per
barrel. Wheat suffered seriously from weevil and barrel. Wheat suffered sent average; grass a very
wet weather; oats are about good crop, but much of it was damaged by raing
weather during haying; hay may not bring the common price, but already there are buyers. The about six inches.
T. C. C.
Sackville P. O., N. B.

Sir,-In your May number I saw a plan for in troducing surface water to a tile drain. I think can give you a better farm there was an acre that would gow onthing but smart weed. There was
an open ditch through the field that had to be five an open dich thro place in it was al ways silling up.
feet deep, and one
I put a tile drain through this low place, which I put a tile drain through this
was clay. In the spring the water could not get was clay. In would fill up and run over the ridge. I dug up ahout a rod of the drain and filled up
around the tile with small stone. I have a heap above the ground, which is very little in the way above the ground, which was. As soon as the water
to what an open ditch connmences to flow it filters through the stones.
This has worked well for over ten years. I have This has worked well for over ten years. Thave
served three more places the same way, which served three
works well.
J. W., Port Stanley, Ont.

Sir,-It would be to the interest of eyery farmer to subscribe for the Farmer's Advochate if the
would consider the matter over to their own inwould consider the matter over to their own in-

SIR, - Would you be pleased to inform an old A. R., Nairn P. O. [Hedges are pruned either in spring or fall.
When the leaves in the fall have begun to lose the fresh green verdure of the spring they may be pruned, though the spring is considered the best
season for praning hedges of every variety. We season for pruning hedges of every variety.
have found the Honey Locust quite hardy.]
SIR,-Will you be kind enough to give me the name of the manufacturer of the petato digger ex-
hiblted at Montreal, and mentioned in the October AdvocatE; also the name of the manufacturer
the Mole Plow, for ditching, exhibited at Halifax the Mole mentioned
the ADocate much. You can clasis me among
your permanent subseribera. I have taken the your permanent subseribera. I have taken the Advocate for three years, and have two volumes
bound in cloth, with moroceo back and corners. I think it is a great aaving to have them bound, as it keeps them from being lost or damaged, and

[The Mole Plow is manufactured by A. G.
VanMeter, Turo, N. S. We could not ascertain the address of the manufacturer of the potato
digger. Manufacturers would find it profitable to digger. Manufacturers their implements in the ADYOCATB. .si fo
Sir,-Until I received the September number which you mailed I had not seen your FARMMR's
ADvocATE. I read that number carefulit, and ADvocate. I read that number carefuly, and by the sea would only read aud profit by the information you convey it woul posprity than all the protective tariffs and other political nostrums will ever accomplish. Yours truly,

Wm. McKerron, Sec. Dominion Exhibition,
Halifax, N. S.
LOBSTER SHBLLS.
Sir,-Are lobster shells valuable as manure, and them to the soil?
Subscriber, Brule, N. S. [Burn them as you would oyster shells or lime ame and apply the product to the land in the bout manner as same value as oyster shells They are onsidered by some not to be of as much value as ime procured from stone.]
a Lost turnip.

SIR,- -Some forty years ago there was a white
turnip called the "Canadian Turnip" grown in this Province. It grew entirely under ground and was as sound as a bell when taken up in the spring.

Old Fogey, Guelph, Ont.
[Can any of our subscribers answer the above
uestion? If so we would be glad to hear from question
SIR,-How much Prickly Comfrey would it take to set out an acre, and what time should it be done, have the roots to be set out every year and how
how are they cultivated? Where could I get
them! A. Subscriber, Wales P. O., Ont.
A. Subscriber, Wales P. O., Ont. [The roots of planted like corn at any time, ex cept in culd weather. Plant in rows $3 \frac{1}{2}$ feet apart with the plants about 3 feet apart in rows. Abou
4,000 plants will be required to set an acre. The roots once set and started to grow will remain as long as required. The land where this plant is to be grown must be highly fertilized, and alway Pearce, Weld \& Co., seed merchants of this city For prise, \&c., apply to them. We would advise commence a small scale, as there are certain objections urged by farmers against it. It is very hard to eradicate from the land when once planted.
It costs considerable to start a field. Many complain that their stock will not eat it, while other growers are disposed tarm to grow it will depend altogether on the advantages he has for growing other kinds of foder, and ar, grown rapidly into public
not. It has not, so far.
favor in this province. Very few persons grow it.]

November, 1881
THE FARMER'S ADVOCATH.

SIR,-A rented a farm to B on a three year's
lease, the years 1878,1879 and $1880, \mathrm{~B}$ agreeing to lease, the years 1878, 1879 and $1880, \mathrm{~B}$ agreeing to
pay all taxes. B neglected to pay the taxes for the years 1878 and 1879 , and A paid the taxes for the year 1880. Can the farm be sold for the taxes
of 1878 and 1879 , A being in a position to prover of 1878 and 1879, A being in a position to prove
that $B$ was a resident and had a sufficient quantity of seizable property on the farm during 1878 and of seizable property on
1879 to pay the taizes
W. O. B., Springbank, Ont. [They cannot sell the farm. The Collecto
should have made proper returns at the time.]

## BLUE-WEED,

A subsoriber at Warwick, Ont., sends us a weed which he says is becoming quite common in his
neighborhoode Its botanical name is Echium oul. gare It is commonly known as Viper's Bug. losg; or Blueweod. It is a troublesome weed, common in Virginia and becoming, Bo in
manyy parts of Ontario It is a biencial, and many parts of Ontario. No goto seed. To axterminate it, treat it as you would the burdook.

## Sturk.

When Cows May be Kept at a Profit. In every herd of cows there are animals which differ widely among themselves in their adaptability Jor profit. EMch animal has a diferent digeative power; diferent tastes, dieerent aptitudes from any other animal. In one animal increase of food may resolt in the laying om of fesh rather than increase of quantity of milk yield,-ar wice versa, one, animal may keep up, uniform yield of milk conderile considerable change of food, while another animal will respond in milk yield to slight changes in food. The who whis herd will usially the aple to point out such cows as can be kept profitably on coarse fodders and little grain, and such fitably on coarse fodders an profitably be foreed by high feeding into large yield of milk. As there xists this individual difference between cows in utilizing such food as they obtain, it follows that, as a herd is usually constituted, some cows are ept at a profit, and certain otber cows at a diminished profit, or perhaps at a loss.
In the fall season, while the farmer is preparing or the winter, it is well to consider the relation between the food stored and the cattle kept, and carefully figure whether the season's crops are sufficient to maintain the live sto k aloay pos sesped. It is also well to consider whethercian crops cannot be more proitably sode ouncr in order cash than fed of the live stoek had not better be to do this some winter cliubes in.
Theso two ideas, viz, the differences that exist between individual animals in economy of food and in produt, do. carmer to a careful study ducta, bhomb in the autumn, and will usually jastify the disposal of certain animals that do not respond profitably to the winter feeding; such exist in the majority of herds. A milch cow weighing 1,000 pounds is generally calculated to require for he poupport and profit three per cent. of her live weight daily in food, or thirty pounds of hay or its equivalent. As in this region the winter may be considered as of six months' duration, this means two and three quarters tons of hay. In th six months' pasturing it is keeping on the representative value, but iet fa, rees, calculate the safe side, for the sake of even figures, calculate tons of cost of the yearly keep of a cow at hree that is, hay. Now, when hay is at a it is easy to figure out the quantity of milk a cow has to annually
produce, in order, at a given price, to cover the value of the food, thas:
A cow must yield annually to equal the value of three tons of hay oonsumed-

| When hay is worth | Qts. at 20. | Qts.at3a. |
| :---: | :---: | :---: |
| \$10 00 a ton | 1,500 | 1,000 |
| 1500 a ton | 2,250 | 1,500 |
| 20.00 a ton | 3,000 | 3,000 |
| 2500 a ton | 3,750 | 2,500 |
| 3000 a ton | 4,500 | 3,000 |

According to the most reent statistics available he average value of hay in Ont. is about $\$ 10$ a ton. In New York State the average price is $\$ 9.79$ per ton. The average price of milk, as deducted from the cheese factory returns of New York State, in about $2 \frac{1}{3} \mathrm{a}$ a quart; as paid to the farmer by the milk contractors for city sapply about Boston, from 30 to 3 to a quart. In Ontario, unfortunately, there are no official statistics issued concerning this matter; but from good authonity we learn that the average price paid for mik tho git 810 per is about $2 \frac{1}{2} \mathrm{c}$ per quart. Naluing hay at $\$ 10 \mathrm{per}$ ton, the cost of $\$ 30$ per y year. Other expenses can be added and oalcolated yn like manner. The question of relation will thus be answered.
Now, in New York State the average yield per cow is calculated to not exoeed 1,300 qurrts, while the yield of good herds is placed at 1,800 quarts. The figures are buf rough Mustrations of certain conditions which appertain to dairy husbandry, the methods under which competition and low prices of product are to be met, and the value o atelligent calculation to the farmer.
There are certain facts which in this connectio should be well apprend that the animal the fodder ferior to is fed to is of more consthan the money value o he food. In other words, it is a loss of money to keep and feed a cow which only produces 800 to 1,000 quarts of milk in a season, when by a little attention cows which would yield 1,400 to 1,80 qualk in a dry cow; high feeding cannot force a
mil
scant milker by inheritance into a large milker; scant milker by imheraits and strong digeative power can utilize unsaleable fodder and give satisfoctory and profitable flow under circumstances hen the high value of saleable fodder canno profit. Second, whether we shall feed high, feed
palt for for mainten noe or for milk, is a question to be determined by he character of the animal and the relation the one to keep; the cow of urprofitable aptitudes should be sold off at once, and every herd contains usually more than one, and thus the herd shall be indying the value relations between the various nmarketable products of his farm, the various purchasable Also, whether to feed to the cow and sell rowth, Also, whe milk, whether to feed coarse fodders, obtain less milk, but at a profit, and sell hay and grain, whether to keep the herd intact, or sell off the
poorer cows, whether to meet the present conpoorer cows, whether
ditions through changed practices, are questions each individual farmer must the careful thought.

Pink Eye.
This disease has for some months been prevalent in several American cities and surrounding conntry Canadian North West. AVeterinary Surgeon who had considerable experience with th
o the Michigan Farmer as follows
The origin, of the term pink-eye is rather obscure, a name unknown in ve the redness of the conjunctiva, or external coat of the eye an the true
of the eye-lids, but does not indicate the character of the disease. Horse dealers regard it character of the disease. Horse dealers regard an
veterinary surgeon reoognizen the malady as a severe form of ty phoid influenza, many animals affocted orm of ty phoid influenza, many animald affocted
with itare so completely prostrited thit the term wyth it are so completely prostrated that the term
typhoid fever (not typhim, wo would not regard as
misiomer. Typhotid infor


 different animalis and difterent localitios die no
doubt to the sisceettibility of one abimimore than doubt to the susceptibility of one a airmal mote than
another to the influenoes which produce it; fome resisting them altogether, whit othere thr piobtrated from the very commencemed of the diboke. Its appearance this year is very minch thb edati as






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with

## with lids ilde side


the contenanco, in someed; oases mouth hath hor, with a
corresponding increase of temperature of the tikin: in thesen caseg inherease ie of temperature of throstration of streage thin
is
 agitated; reapiration inorossed. Conghy moopmpanied with Bore throat, inomem inatprosents 3 P in other eases the feet besome hot promenting al
 marks of the fingers upon the skin, is should be
borne in mind that the above aymptome are nothall prosent in the same animale The oomplicato
found in the epizootio form are no o opervedwen
xisting as a sporadio dieo exase yields roadily to proper treatment, when anocompanied by careful nursing, whiohin factis one
half in the animal's reoovery. Dlaring the praval. half in the animal's roovery, nauring che prapold be taken in feeding. Now hay on nemprraia ehould not be used. The horse during the prevalayce of oftener than at any other timee proves fotal. Treatment: When the aevvicen of a competsant
veterinary surgeon oan be had, it ie iefor to eoure veterinary surgeon can be had, it in shfor to mooure his servicess, as a mistake in the oharnatere oi ithe
disease may prove fatal to the animat it difi. cult to lay down a course of mediontion in a
disease presenting so mauy complications ias thil disease presenting so many complioalions, mimary
disease does at the present time. In andine oases tonics and stimulantea are conled for. Ine ane Tartrate of antimony and nitrate of potarly ot on one drachm ; mix both together and give night a
morning. When the fever is broken tonion a stimulants are called for. The following any be
used in ordinar root, pulverized, and nitrate of potasea; emoh one ounce; Jamaica ginger, pulverived, halian, ounce enugreek or ainse-seed, pulv., six drachm; mix and
divide in four parts, give one night and morning.
When the When there is dropsical swelling of the legs hal above with good effeot. If the langs are involved give the following: Aoonite root nintincture, with
tincture of belladonna, one part each, watei two parts; dose one tenapoonfol every three hours. I parts ;
the liver be affected, which may'be known by the
yellow tivg of the yellow tinge of the mucous membrane, dung small
and hard, horse lying on his side, sad soasionally and hard, his side as if in pain, with an ooceaional
looking at
fit of uneasineas give Barbadoes aloesy thre fit of uneasiness, give Buabbadoes aloent thre drachms, colomel and puiverized digiticis, ol emes.
half a drachm ; make into a bull with molesees.
This This must not be repeated. When there jie sore
ness of the throat, blisters ahould be appliods the fly blister, made thin with turpentines answera a good purpose. The animal should bo ploced in a
box stall, well littered with straw, and dept plean; as pure atmosphere as possible is necoesary; the
contaminated air of a bady ventilated stable re. tards or defeats restoration to health.


The family Cititte.

## "Home, swoot Homa."

## 

 Cotbon, iay, beamease it was riininge than Carroll) the meek
 roly, ppaningsthe brown wiolume ,

thisis Munde had turned to the window, and was impetuonaly


 heirees. She ivedi in ihe
bemars only teampory, arangements, ALaude was engaged to



















 you hifeo didear:" up staned tap to her room, and rang for her
 room ;ho wead dreesed inblatk etevet, with hequare eut bodice,

 Trant iard sho sat here, gilen and thoughtit), playing with















 nimht.
nime ment
ring. ring ${ }_{i t}$ was hardly fair to tlaim my promisa $0^{\circ}$ Boono tavren












 forot-you have let mer read it often enought. And now I IS

 beating firealy with pain and anger
 ber: 1 ,
















 "I am so oorry",



Miss Carror kisesed the beautifut heiress, and wont briskl









ayinf down Mis Carrall : mamm wit

 "I Iam, giong back to the Hall-1 have torgoten somo-
hing iofert the room, and Polly turned up the lamp, and gat





 on-coptuin gaps wint toom

 nothing", dashed dway her tears very proudy.



 No agii as you did just now"'" nis noek, and laid her head on





## Humorous.

"a "You cannot place a, the singular articlo, annot ray $a$ pisg, $a$ wamen, $a$-" "nows better than you, I should think p, and doesnat

A minister with a rather florid complexion went
into the shop of a barber, one of his parishioneres to be shaved. The ore barber, one of his parishionors, to
bouts of drinking adideted to heavy

 cover the lower part of his faoe with, blood. The
minister turned tot the earber and said, ina tone of solemn severity, "You see, Thoma, ${ }^{\text {sen }}$ what oomes of
 with the utm
very tender."
The invitation to a reeent apple.bee in New York ran as dollows: "1309 Firpt Avinver, 12
4.80-How de-do. Youd better hitch ap next
Vednoel Wednesday night and come over to our honse to
an apple paring bee. Tell your wife to $k$ bile an apple paring bee. Tell your wife to bundle up
and ome along. It will do her good. Some ot Che nicest boys and girls in the neighorhood are
coming. If the barn is fall
you can ent hith the coming. If the barn is fall you can hitch the
horise to the trees across the road. Paring beoins

 oned how she could not come no way; cause she had the eandles to run, the sassiges sto make, the carpet-rags to color and a chunk of cloth to set in
Biges's trousers ; and the old mare has
 are coming if we have to walk. Perkin's oldest
boy is coming over to milk and oy is coming over to milk and feed the chickens,
so that we can get away early. Wife is all in

 word with Hubbell s boy when he comes your to





## Answers to Enquirers

False Covsin.- What should a gentleman do if
teased about a lady he does not like? Avs. It is very valgar to tease and especially so when a lady's name is brought in. If the teasing should come
from ladies one can do nothing but bear it good naturedly, and certainly avoid any disclaimer that might seem disrespectful to the lady; if from
young men one should teach them to have better young men one sho
manners in future.
CluAdia G. -lat. What salary does the Presi-
dent of the United States receive? 2nd. Will
President Arthut President Arthur now receive the President's sal-
ary, or only the Vice-President's as before? ary, or only the Vice-President's as before? 3rd
Will Mrs. Garfield now receive any of the President's salary? Axs.-The President reeeeives
$\$ 50,000$ a year. 2nd. President Arthar would, of course, receive the Presidentss salary from the receive whatever the Legislature might award, but
President Arthur has very generously donated the President Arthur has very generously donated the
balance of this year's salary to the Gartield memorial fund, which is literally giving $\$ 25,000$, the
ore orial fand, which is dontion made. We believe the fund now
largeonnts to over half. a million.
Hratur B. It is not in good taste to tuck the
napkin under the chin or anywhere else; it should naplan under the chin or any where else; it should and fingers, not as a bil; to see one use it in that capacity gives the unpleasant impression that he
cannot eat without slopping his food over his shirt cannot
front.
F. A. D. Is it impolite to ask a lady if she loves you Atter you have been acquainted with alady
for a long time and you have been intimate friends When she is about to leave for another country and
you never expeet to see her a aain, and you visit you never expect to see her 'again, and you visit
her at her home, is it impolite to kies ther good hye? Ans.- You must tell her that you love her
first. Otherwise, it would be very rude, indeed, to ask such a question. 2nd. You have no right is to be supposed that any lady who may be youn and pretty enough to tempt one to kiss her will
some dav bee engaped and niarried, and surely no
husband would hike to know that his wife hiol husband would like to knew that his wife hiad
been kissed by every masculine friend she may have had. We reoeive some extraordinary letter
on the subject ; some people seem to have no sense on the subject
of delicacy.
Houskrerprr.-Is it qood style to have small
vegetable dishes, snch as we see at hotels, or are the larger ones as fashionable for private families ? 2nd. "Mhen helping guests at table is it correct to
say "may 1 assist you to the potatoes,". or should one say "'may I help" you' ${ }^{\text {on }}$ 3rd. This question
is answered above. 4th When a servant passes is answered above, 4th When a servant passes
the dighes ib it receessary for guests to say "thank
you" for everything? ANs! No, these little dishes ispoil the appearence of the tsble, and have an untidy look. They are appropriate for hotels,
buti in private houses the large handsome dishes of the dinner set, are much nicer. 2nd. "May I
help you " is correct, as assist means that each that she will give a portion of some dish, she, of course, will do it herself; When yuests $p$. ss
dishes to each other they do not say " may I help you, bur it may you have a piece of cake, or what any dish, he or she may say " may I help you to
some proserves, \&cc." This is not so much table some proserves, \&c., This is not so much table
etiquette as it is the mere using of words in their right place. , th. No, one may ocaasionally say
"thank you " to a servant, but to do so continu ally would be in bad taste, as of course it is his or
her duty to wait on table. When refusing a dish even from a servant one may say "not any, thank
you." These rules do not arise from any lack of courtesy to a servant, but simply because it would
be absurd to continually thank any one to do his or her duty.

## Recipes.

rumpkin pif
Cat the pumpkin into as thin slices as possible
and in stewing it the less water you use the better and in stewing it the less water you use the better
stir so that it shall not burn; when cooked and stir so that it shall not burn, salt; mash thoronghly
tender stir in two pinches ofrain through a sieve ; while hot add a teaspoonful of butter; for every measured quart o
four eggs, beating yolks and whites separately meg to taste, an our pumpkin into your pies it Before patting your pumpkin into your pies
should be scalding hot.-[Margerie D. to restore velvet.
The best way to restore the pile of velvet is to
put a wet cloth over a very hot trino, hold the vel et lightly and smoothly in the steam which rises, This is preferable to the old way ct dampening the
back of the velvet and drawing it over the iron Velvet ribbon and even sack backs which have
been badly pressed may, if treated in this way, be been badly pressed may,
prciled red cabbage.

Cut the red cabbage in thin slices, sprcad it on
sieve and sprinkle with salt. Let it drain for twenty-four hours, dry it, pack it in pickle jars, ail them with cold vinegar, put in spioe to taste, and tie the jars up firmly. Open the jars in a fe
days, and if the cabbage has shrunk, fill up with dayse, and
vine
alloped cadliflower.
Boil until tender ; clip into neat olusters, and
ack the stems downward into a buttered pudding dish ; beat up a cupfull of bread crum to po a soft paste with two tablespoonfuls of melted butter
and six of cream or butter ; season with pepper and six of cream or butter ; season with pepper
and salt, bind with a beaten egg, and with this over the cauliflower ; cover the dish closely, and more, and serve very hot in the dish in which the were baked
bockwheat cakes
One quart of buckwheat, one teaspoonful of salt,
two tablespoonfuls of Indian meal one of molasses pbt in tepid water to make a batter, with yeast
nfficient to make them light, compressed is th suffici.
best.
hocolate cream drop
Take two cups of white sugar, and half a cup of
water ; put it in a saucepan; heat until it boils water ; put it in a asaucepan; heat precisely. Set the nixture creans and cools enough to handle; then nould into small drops, laying them on a battere
latter. Take half a cake of Baker's chocolate scrape fine, put in a bowl, and set into the top of steaming, not boiling, teakettle, till dissolved Then troll over quickly ; rake out with a fork. and put on to a buttered plate. Be careful not to let
the chocolate cook, or it will thicken. Tested in the family of

## Preserving Hams and Shoulders.

Hams should be neatly trimmed and cut roundng, to imitate as closely as may be the city cut
hams to be sen in most grocery stores. With ach patterns before them there is surely no excuse nto a square, unsightly prece, and calls it a ham. Make a pickle strong enough, to just float an egg; tir in this sugar or molasses sufhcient to give it
light sweetioh taste. Cover the hams with this pickle, and allow the packages to stand where the emperature is uniform and above freezing. For ams of twelve pounds four weeks will be sumficient,
larger hams must remain in the brine longer. In general terms, from three to seven weeks enbraces
the extremes of time required for domestic curing the extremes of time required for domestic curing
of hams, varying as to the size of the hams, temof hams, varying as th the size of tipe hats, they will be used. When it is designed to preserve them hrough the summer caut on ackle too soon. remove them from the pickie too soon.
Hams may also be cured with dry salting. This is done by rubbing them often with salt anel sugar, and bunching them up on platforms or tablee
overed with salt, and covering each ham with galt. When taken up to rub, which should be done half a dozen times, have a shallow box at hand in whic do the work
Shoulders for family use require muoh the same
treatment as hams, and both should be smoked treatment as hams, and both should be smoze
with hickory wood. The preservative principal of
Tmoke is creosote.
Smoke made by burning corn moke is creosote. Smoke made by burning corn
cobs is highly esteemed, but those engaged in cobs is highly esteemed, but those engaged in
curing meats on a large scale consider that the
purest, purest, sweetest smoke is obtained from dry hick.
ory sapwood stripped of its bark. If the smoking ry sapwood stripped of is process is hurried the creosote will not have thim
to penetrate the entire substance of the meat, by
ten day's smoking is in all cases safficient, unless


 The woom in which ary ashee. kind of dured meat in to
be kept Bhould be dry and cool, and thi darkor the better.-[N. X. World $1 / 1414$ t. 2110)
One of the members of our family has a great
horror of hash, always qualifying the hisilike with horror of hash, always qualifying the dislike with
the added phrase "exeeptathome" /I improved a dish the other day that was well reocived, and
the hash hater especially seemed to appreciate it As a good method for using up cold mutton or bee it is really excollent. Take any bones there may be in the meat; ; put them in the stew bettle, over
night with a head of celery, and an onion stuffed wigh cloves with wateer to covere it in thit mor morn
ing when required for use, strain off the liguo ing when required for use, strain of the liquo pound. Place in a deep dish a layer of mamer potatoes, a layer of the meat and another of pota-
toes. Pour over it your gravey; oover and bake af minutes bofores serving in ordder to give it a
"handsome brown." Serve in the dish in whish it is baked. Speaking of celery reminds me that this
table ought to be at hand in every farmer's oellar but if it is not procurable, it has been proved tha old unsalable celery seed imparts flavor to "Boupdays ago we prepared too much at onee for "the table, and found it could be kept for, several alaye by rolling in a clean, damp cloth and putting in
dark cool place. When once more placed in water for a while, it becomes as crisp and cold at ever.
I think, apart from any medicinal virtaen ascribed to it, there is nothing in mid-winter that to
brightens a table, and whets the appotite ws the green and yellow, crisp, nutty stalks of this only
half appreciated vegetable.

Midniget in a Prison.-There is something very solemn in a large convict prison at mífinight.
A faint sound of healthy olumber comem from the cells where the conviots sleep. Perhaps there are thousand, perhaps only five hundred, undergoipg ne is conscious that nowhere else save in a conviot prison could so many human beings wleep . With so same number of people taken from the ordinary nightmare following on indigestion-perhape from隹郎ion whether the strong steps takien for pay. were not under the eircumstane ion; there might also be uneasy thoughts and reams creative of restiessness. None of these This is not because his conscience lies easy on him, at because he does nold possor artice know either enjoys the satisfaction of its healthy and genial condition nor the troubles attending on its
nflictions, and it is with him essentially that the Prayer for Indifference," by Greville, as it may
be found in the old "Elegant Extracts," it granted. [Black wood's Magazine.
 specific to the troublesome eruption produced by the poison oar or poison ivy so common in our
woods and along old fences. This specific he finds bromine, which he has used with unvarying
uccess in at least 40 cases. He uses the drugdis solved in olive oil, cosmoline, or glycerine, in the
trength of from 10 to 20 drops of bromine to ounce of oil, and rab the mixture gently on the af fected parts three or four times a day. The bro
ine is ao volatile that the solution should be re newed every 24 hours. The eruption never ex tends after the first thorough application, and
romptly disappears without 24 hours if the ap plication is peraisted in.
To make silk, which has been wrinkled appear like new, sponge on the surface with a a weak solu.
tion of gum arabic or white gue, and iron on the
wrong gide. tion of gum
wrong gide,

Timely Advice to Girls. The followigig dadice toth dirliris being exten-
sively distribited among familios of the eastern
 You, or one whobe reputation you are not aceqqain.
ted with the same rule is applied as ap protection against the trust a stranger ; no bunkinesese man would sell his goods on time without guarantee against loss or old, trust her virtues and harrelf to to man she she
 Look at the foot-prints of time and see how many
of your sex have been driven to a life of shame by of yoor sex have been driven to a life of shame by
iggoringte rule. Avoid all sunday and Sunday
night night danees and the wine.oup. In marrying
make your match ; but wait tion you reach the age make your matho ; but waite itioup. Hou reach thery thg
of twenty three or twenty five. Do no


 along. Remember your future happiness depends
altogether on the kind of $a$ partner you get, as it is he that makees your home on earth y heaeven or a home of sorrow. Therefore, be sare, take no
other than one that is Remember that man, whena he peeke for an wife, seeks sobriety, virtaie and purity in a $a$ woman,
Why should not woman demand the Why should not woman demand the same of man?
Drunkenness turns $a$ man out of himself and leazes a brute in its place. Do not marry for a home and a livin marry for a home and a living
whent, by taking care of your
health, you can health, you can bo strong
enough to oarra your own liv.
ing. Do not go with a a licening. Do not go with a licen
tions man, as his words will ultimately prove as the bite of
an adder and the serpent. Be kind atand true to your own bex If If by true to
one should fail to-d one shonld fall to-day, do not
slumber, but help her
 not llet fathers, mothers or
aunts sell you for money or aunts sell you for money or
position into bondage, tears pooition into bondage, tears
and life-long miseries, which
poin
 not meet any man clandestinoly, as as in moy bo to your
sorbituall po place yourself habitiallly in the the socieverself of
any suitor until yon have of any suitor until you have d
cided the questiou of matri mony. Human wills are weak - girls, especially, often be know their error until it is too late. Therefore wait un-
tii the age of $t w e n t y-$ three or twenty five is reached. If younger you are but
children. Get away from all other influencos ex cept 'good mothers.", Stum
up you mine your head and make up you mind alone. A word from a good mother
will not harm you, as she is the last gad crownin will not harm you, as she is the last and crowning
handiwork of God, the link connecting heaven and handiwork of God, the link connecting heaven and
earth, the endowment of purity, holiness and hearen ly grace, the most perfect combination of modesty, patience, devotion, affection, gratitude,
and fit for any high or holy trust. Did not she waich over you from infancy to childhood, from be made in a moment of sympathy, or even hall eears of sortrow, toil and main be redeemed through years of \&orrow, toil and pain. Forget not, ho
only that is free from vice is fit to be your companion, and no oother. Drop the oompany of hin at once who has uttered a word unbecoming to true manhood, for if a man is true to himself,
then it must follow as the day the night, he oannot be false to woman. As you make your bed so you must sleep. Take none that has ever slan-
dered or betrayed one of your sex or broken promise. He is not worthy of a wife, nor will he ever be true to one, -[Exchange,

Revenge is a momentary triumph, the satifac tion of which diem antary triumph, the satisface of all revenge, sentails a perpetual pleasure. It was well said hy a Roman emperor that he wished
to put an end to all his enemies by converting

a cheap and comportable chatr.
wood, having casters under their ends, and brac kets above to form the legs and to add to the apcular portion, and the whole is neatly upholstered Of course it is necessary to select a good barre bound with iron hoops, and a little care should b
taken in the upholstering to disguise the base Corm as much as possible.

## Something to Talk About

Model progress has given inventions to almost very demand of restless hamanity; but it has
sigally failed in one particular, for whioh it is probably not to blame-that is, it has never insis want people something to talk about. It garded as the finestst stroke of of economy - sine ee it ondd curtail two thirds of the most' grevious sin ered togethered, the first gueory three are gath keen thread of satiety is ts "ury what shall be talked about?" It is said that women, especially in in
groups or confidential circles, or on sick beds, be. come the mont pitititul vircles, or on on sick beds, be-
come
want. And you might want. And you might as sell ask why amon meldom Iikes his wife to stay with her relatives, as to
inquiee what would satisy this demand. Some have various palliatives; and when you wish one of them, perhaps, to impart a beautiful thought,
fact, or fancy which it has been a burden to alone, expecting a quich appreciation and under atone expecting a quich appreciation and under-
standing as kindred offerings from her, she is seen
rummaging in
to tosik about. rubbigh for something
Sometimes she will bring in the last marriage as am substititute for a subject ; her
visisto the nexly tingly fallen a viction to the alert vision and sensae of her attentive visitress. "The latter already has a full oataloguu of the "t knows" and "dan't
knows." And any want of judgment discovered in the young wife is held as a a weet morsel among the list of shortcomings. These watehers generally degenerate into back-biters-carrion crows "o society.
It is truly distressing to see how painful some young people who are more refined than sensible,
or wealthier than either, are made aware of the want of sometling to talk about, when they re solve to spoak fluently, ere the fine wine of
has stimulated them has stimulated them to ntter extravagant and
pretty speeches. Witness oue, for instance, who has started out on that never- Worn-out topic,
the the weather. How he is suddenly halted by thai
enemy of a proverb beating through his brain, enemy of a proverb beating through , his brain,
htere is nothing new under the sun!" just when
het he was most hopeful of nice invention. After a
silence, braken silence, b, ok oken by moving his obair or feet, whieh
have suddenly become obiects of interest, and have sudanyy become objects of interest, and
while the lady is chasing after thou hhts for pre sentation, he ventures an opinion is that it was fine yesterday and is bad to-day; it will be fine to
morrow." $T$ he next moment $h e$ is again beatio morrow' he next moment he is again boating about life's heap of petty trivilities for fearls of
prite, whith are
often sorrow.

\section*{For the Sick Room.} In preparing a meal for any one whose appetite is delicate, it should be made to look as tempting as "possib).e. The the whitest napkini, and the | silver, glass and obina |
| :--- |
| shine with cleanliness. |
| Thendd | shonld not be too great a

variety of of viands and but very small portion of each one.
 gusts a feebe appetite than a
पuantity of food presented at one time:
The patient never should be consulted before- hand as to what he will eat or what he
will drink. If he asks for anything, give it to him, with anything give it to him, , inth wise prepare something he is
known to like and offer it without prefious comment.
One of the chief offices of a goon nuse is to thint for for her
patient. His alightest should be anticipated and gratifed befote he has
time to express it. Quick observation will enable her to detect the first symptom of worry or excite shonld be teased with the exertion of invalid neve sision. Whether the room is too hot or too cold;
cital for his luneticen broth, beef tea, or gruel is best tions which should be decided without appealiag
toren to him.
Household troubles should be kept, as far as:pos sible, from the esick room. Squabples of chifdren
or servants never should find an eash ot the the event of some oalamity occurring of of which the sufferer should be informed, the ill new should be broken as gently as possible, and every
soothing device employed to help him bear the
Above all, an invalid, or even a person apparent ly convalescent, should be saved from his friends.
One garrulous acquaintance, admitted for half hour, will undo the good done by a week of tender nursing. Whoever is the responsible person in hear; she should keep a maneoh her patient can of whose discretion she is not certain, and the mo. ment she perceives it to be necessary, politely but irmly dism, ss them. She must carry, out iepplicitly
the doctors directions, particularly ing doctoris directions, partieularly those regard.
ing meicine and diet.
Strict
obedience to his orders, a faithful, diligent, painstaking following
of his instit h his instructions will insure to the sufferer the and resularity in his domestic nuring order, metho

## 

My Dear Nephews, -
Most boys are natural-born hunters. Almost every one of you look with a feeling something trusted with a gun. How who old enough to be out hanting squirrels or rabbits with a gun! But as you cannot do that, you set traps for the rabbits and try to circumvent the squirrels by smoking them out of the quarters they have chosen for the winter. Rabbits are fair game, ats they do much mischief, Zund trapping them will prevent injury to young trees in the orchard. But for the squirrels, they make a very git come under the head of game, and that boys are not much to blame for trying to capture them. But it is not so pleasant for the squirrels, especially after they have put away 'their winter stock of nuts in the most comfortable of hollow trees, to have all their nice plans for the winter disturbed. The home of the little animals, in a hollow tree, being discovere the boys organize an expedition; to enjoy the sport to enjoy the sport. Not only our boys, but neighalong, all the better We will make Satardey of along, all the better. We will make a Saturday of
it. In efirst place we need a strong bag, which has a woo th bottom tacked to it, some nails some matches, ancon sharp axe. We must first guard the hole at the root of the tree, and then find out how far up the hollow extends. Then the best axe-man of the party makes an opening at the top of the hollow and tacks the mouth of the bas securely over it. Now for the fire-some sticks are soon lighted, and leaves being thrown upon the fire make a smudge, which goes into the hollow tree with a warning for the tenants to quit. They cannot come out below, for the fire is there; but they soon find the opening we made above, and a squeak and a bounce tell us that the game is bagged. Now, write and tell me what sports you have been enjoying this fall, and if you have bagged any game; also send the answers to the puzzles and enclose a new one for the paper.

Dear Uncte Tom,-
I am a little girl, thirteen years old. I go to the grammar sehool, and get aloug very well. My brother has taken your paper a very long time, and he is igreatly pleased with it. I like it very well, and almost the first thing I turn to when I get it is the puzzles. I have hitherto made out a great number of puzsles, but I never thought it worth while to send them in; so now I shall endeavor to make up for lost time by sending in the answers of ary I get. I hope other little uieces and nephews will follow my example in writing a
letter, such as it is; and lastly, 1 must say I warmly congratulate you on your pleasant sojourn
out camping, and $I$ sincerely hope that next campout camping, and I sincerely hope that next camp-
ing season may not enlyprove as pleasant as this ing season may not enlyprove as ${ }^{\text {p }}$ p, but also bring new pleasures.
Hoping to remain your ever-affectionate niece,

## PUZZLES.

152-anagram.
Arw dan vole rae egnarts eerspcom Raw hersds vlbd nad ovel eshds earst Wra sha wordss and
lve hsa tarsd rwa keaerb dahes nad ovle rebkas olve hsa,
thares.

> 153-diamond puzzle.
> My first is a vowel;
> My second a number
> My fourth an animal
> My fifth a vowel,
154-ENTGM:
My first is in peach, but not in plum;
My next is in hand, but not in thumb; My third is in rat; but not in mouse ; My fourth is in room, but not in house ; My fifth is in in Bill, but not in Sam ;
My sixth is in sheep, but not in lam And now, /it the letters you rightly take,
The name of a little girl theyll make. name of a little girl they'll mak
155 -ILLUSTRATED REBUS.

$$
\delta \leftrightharpoons K_{8}
$$



156-decapitation
Whole, I am found in the Parliament building,
behead, and I am a covering for the body; behe behead, and I am a covering for the body; behead . 157-numerica
I am composed of twenty-two letters.
My 4, 14,6 is what many long to hear,
When $10,19,3,14$ makes them aska a question;
My $22,7,5,8,18,2$ is something nice to eat, My $22,7,5,8,18,2$ is something nice to eat,

either raw or cooked; | $\mathrm{My} \mathrm{11,1}, 20$ |
| :--- |
| $\mathrm{My} 9,13,21,15$ a marsh; |

My $9,13,21,15,10,17,12$ is to finish;
My whole is an adage.
158-SQuARE words.
Join the hands to the arm, a wanderer, the tooth of a large animal, slaves employ
place of the meetings of lovers.

## Answers to October Puzzles.

145 - Date, peach, tomato, lemon, plum, cherry, 148 , apple, banana, grape, prune, apricot. in your income.
147-Bough, bow.
148-Provincial Exhibition
149-Thunder Bay.
150 -The letter 0.
150-The letter 0 .
151 -Drover, rover, over, rev
Names of Those who have Sent Cor Saul Green, Frank Johnson, Sam Haycroft, Minnie McEwen, Arthur Fisher, Jessie Murray, Nellie Brown, Henry Franklin, Peroy Pritchard Helen Hamilton, Geo. McBride, Geo. Elliott Emily Owens, Wm. Howell, Harry Imlack, A A. Lancaster, Willie Gordon, A. E. Ellis, George Smith, Dora Evans, Minnie G. G.
Sleightholm, Harriet E. Brethour.
The late Bishop Whittingham was not destitute
of true humor, He once " obrought down the house" at Convention by saying that he was con-
tinually in receipt of applications from Maryland tinually in receipt of applications from Marylan
vestries for clergy with very small families. "I this goes on," said he, "I shall expect before many years that no one may obtain a cure in my dioces,
unless he be a clergyman with a very small appetite," unless he be a clergyman with a very shall aped caldi-
He used to cheer up his half-frightened cal who read the closing yerse of a certain chapter of Acts: "And he spake unto them in the Hebrew,
tongue, saying, 'Here endeth the second lesson." tongue, saying, 'Here endeth the second lesson.
A young fellow, eating some Cheshire cheese full A young fellow, eating some Cheshire cheese ful
of skippers at a tavern one night, exclaimed
" Now I have done as much as Sampson, for "Now I have done as much as Sampson, for
have slain my thousand and tens of thousands." have slain my thousand and "tens of thousands."
"Yes," retorted another, "and with the same "Yes," retorted another, "an
weapon--the jawbone of an as,

The Lucky Horseshoe A farmer traveling with his load
Picked up a horeghoe in the road, And nailed it fast to his barn soor, That luck might dounn apon him pour That eyery blessing known dn life And never any kind of harm
Descend upon his growing farm.
But dire ill-fortune soon began But dire ul-fortune 800 n began
To visit the astounded main His hens declined to lay their eggs ; His bacon tumbled from the pegg, And rats devoured the fallen legs;
His corn that never failed before, Mildewed and rotted on the floors; His grass refused to end in hay His cattle died, or went astriay;
Next spring a great drought baked the wod, And roasted eyery pea in pod, por peans deolared they conld not grow So long as nature aoted so ; Rebundant insects reared their brood To starve for lack of juicy food; worn As if they had the hooping cough, And nothing of the usefulk ind
To hold together felt inclined In short, it was no use to try
While all the land was in a fry.

One morn, demoralized with grief,
The farmer clamored with relief , And prayed right hard to understand What witchcraft now posseased hin land Why house and farm in misery, grew
While thus dismayed ofer matters wrong An old man chanced to trudge along,
To whom he told, with wormwood tears, How his affairs were in arrears, And what a desperate state of things,
A picked-up horseshoe sometimes brings.

The etranger asked to see the ahoe, The farmer brought it into viepios But when the old men raised his hoad,
He laughed outright and quickly said, "No wonder sky's upon you frown-
You've nailed the horseshoe upide down,
Just turn it round and soon you'II, see
How you and fortune will agree,",
The farmer turned the horseahoe round Showers began to swell the groand;
The sunshine laughed among hin grain And heaps on heaps piled up the wain; The loft his hay could hardiy hold His catule did as they were told;
His fruit trees needed sturdy prop To hold the gathering apple crops ;
His turnip and potato fields His turnip and potato fields Astomished all men by their yields
Folks never saw such ears of corn As in his smiling hills were born; His barn was fuil of hurrting bing-
His wife presented him with twins; His wife presented him with twing;
His neighbors marvelled more and more To see the incerease of his store. And now the merry man gings There are two ways of doing things:
And when for good luck you would pray,
Nail up your horseehoe the right way."
All of one long, happy hour mama had been All of one long, happy hour mama had been talking to them, about heaven and the angels, and howing them pictures of angels with their snowy I'm an angel, I want to be a shanghai -" Shocked silence on the part of the family circle, followed y the explanatory claune by Jack, "Feathers on congregation without the usual benediction, - [Burington Hawkeye.
"Men often jump at conclusions," says the pro-
verb. We saw a dog jump at the conolusion of cat, which was sticking through the opening of a partly closed door, and it made more disturbance than a great scandal.

Wives of rich men often remind us
But 84 , for a bonne
Knocks a check-book out of time,

Notes on Ornithology.
BX ORNIS.
As the English Sparrow (Pyrgita domestica) argue that it destroys a large quantity of insects argue that
while others maintrinin that its eats few insects and
drives away drives away our native birds. Our own observa-
tion has not been sufficiently extended to form a decided opinion, bot so far it goes to prove that ther eat fow insectes, and on aocoont of breeding
very early, takee possession of boxes and nooks very early, take possession of boxes and nooks around houses biofore our nathes forcing them to seek homes elsewhere. Although a pugnacions' bird, it seems in this place to have limited its quarrels to those of its own kind, and to have left the Bluebird and Swallow
in peace. As we have said, it builds in boxes set

up for it, or in nooks around the house; but it is in no way particular, and if these are not handy, will even in trees. The eggs are generally six in number, and this, combined with the fact that they breed three or four times a year, renders them by far the most prome in a few years either a great bid fair to become a great nuisance, poossibly the latter. Any one will be amply repaid if he will nail a few boxes to the side of his house, just under the
eaves, or erect one on a pole as in the ascompanying engraving. It may pass one summer uninhabited, but the second will surely bring birds of some kind, and we know a house with several of
these boxes where this year Bluebirds, Whitebellied Swallows, Sparrows and Wrens built all on one side of the house, producing altogether about thirty birds. This is a good way also heare a lot trees healthy, and at the some arme which will be a pleasure in more ways than one.
The Massachusetts Agrioultural Society concludes that salt as a manure has the property of
hastening the maturing of all grain crops; that wheat on salted land will ripen six to ten days earlier than on unsalted land, all other conditions to 50 per cent. That it stiffens the straw and prevents rust and smut. That it checcks, if it does not entirely prevent, the ravages of the chinch-bug. The quantity used may be from 150 to per ant put the greater quantity is the better.
Mr. F. C. Eastwood, of Manchester, England' says the greatest per cent. of starch is found in small potatooses, such as are generally considered unmarketable. Farmers who sell their potatoes
tarch manufacturers should bear this in mind.
The Michigan Farmer says: Many of our farmers The becoming alarmed at the ravages of a large
are bhite grub that has made its appearance in the white grub that has made its appearance in the
wheat fields. It has already done a good deal of wheat fields. It has already done a good deal of
damage on some farms, and it will probably be

FALL CAMPAIGNII Grand Premiums for Workers The offer, тие спосе ор The Accepted, For ONE New Life's Voyage, or Sobscriber. Language of Flowers and Floral Conby UVOLSATION: charley.
Contains the Principles of the Flower Language, Flowers
with theit Expressions, Flowers by the Poots, a Fascinating Sith their Expressions, Flowers by the Poets, a Fascinating
Leaves, Fcal D. Decortions, Cemetory Deeorations, Skeleton and the choice or
Homeward, or The Curfew, For Two Balmoral Castle,

New


Uncle Charlie's Illustrated Game of The most desirable Game for children ever offered to the
public. public. playing the elements of the Science of Botany are easily
and thoroughly acquired. MME DEMORFSTSS Celebrated PAPER PATTERNS to the





 laspyw mer
copyright.
1879, and and bu
"Lorne and Looise" was fully described in
1879, and but a few copies remain in our hands.
OUR RULES
The name sent in must be a new one, and the subscription
for one year (\$1.00) must be enclosed. The prize is if or the old subucserber. who sends in the new
name, and not to the eew subscriber. name, and not to the mew wbseriber.
choros your prize when remiting, otherwise a choice may
be made for yout. be made for your


## \$tork extotes.

The Farmers' Advocate prize of $\$ 100$ for the
Provincial Exaibition of 1882 , will be awarded Provincial Exhibition of 1882,
for the best herd of milch cows.
In our next issue we hope to give an illustration of the Groff herd of fat cattle, winners of the Farmer's Advocate
Provincial Exhibition.
Mr. John Carroll, of St. Catharines, Ont., advertises in this issue a number of Shorthorn bulls, Cotswo
ment.
The well-known Ayrshire breeders, Thos. Guy \& Manitoba ten very choice Ayrshires, Among the
Mantle number are several noted prize winners.
the above Ayrshires they also send a few
pure-bred Durham buils and a number of Suffolk and Berk. shire hogs. They intend to sell the above stock at public auction in Winnipeg, Man. Since our last
issue we have received their catalogue of Ayrshire cattle, also a communication from them, from which we learn that their herd
has won between $\$ 300$ and $\$ 900$ in prizes
this year, besides a silver medal at Toronto
for the best bull, and several diplomas at the various exhibitions; also four herd prizes, viz.: 1st
ver and 3rd at Toronto, lst at London and Lindsay.
They conclude their communieation by saying: They conclude their communieation by saying:
"We think a good deal of your paper, and admire your fearless and straightforward manner in exposing wrong wherever it exists, and advocating and com-
monding the right." mending the right."
Messrs. Green Brothers, of Oakville, with Mr.
George Andrews, recently shipped from the Oak George Andrews, reccently shipped from the Oak-
ville station, Ontario, two carloads of very superior animals, consisting of six Shorthorn bulls of good pedigree, together with some exaeedingly good
Shorthorn grade cows in calf, and some with oalves at their feet, and eight Poland China pigs.
Mr. John Dryden, M.P.P., of Brooklin, Ont., has
sold his fine three-year-old cow sold his fine three-year-old cow, Florenoe, with her
heifer calf, to Messrs. Green Brothers, Oakvile. heifer calf, The calf is by Riohmond Princes F Forence is in
calf again by Mr. Dryden's imported bull. Mr. D.
writes that the din writes that the demand for Shorthorns is good this
fall at remunerative prices. He has now four nice fall at remunerative prices. He has now four nice
heifer calves, dropped within the last two weeks, heifer calves, dropped within the last two weel
the get of his imported bull. They are all A 1 . The exportation of horses from Montreal to the
States for the past fiscal year shows a falling off in States for the past fiscal year showis a falling off in
number, as compared with the previous year but number, as compared with the previous year, but
an increase in value ; the number being 7,093 costing $\$ 863,110$, as compared with 8,267 costing $\$ 670$,657 , for 1880
Messers A. G. Thompon \& Co, of Toronto, Ont.,
shipped 250 head of fat eattle for the Liverpool shipped 250 the Grand Trunk, on the 2nd inst. market by the Grand runk, on the, 2nd Mat.
They will be transhiped to the steamship Mani-
toban toban at Point Levi.
Mr. John Gearr, of London, Ont., recently made some oxtensive 日aes to American bayers at ad-
vanced figures. To C . Drigge, of Palmyra, Mich.,
 ram lambs; to Thos, Walker \& Sons; Wayside
Stock Farm, Weastchester Co., Pa., 27 head including one aged imported ram, one yearling ram, two aged imported ewes, twelve shearling ewes, and eleven ewe lambs ; to Uriah Lorne, Skeels Crossroads, Ohio, four 2 -shear
ram. Mr . Mr. Spencer, who advertised Shropshires and
Southdowns in the September number of the ADvo. CATE, writes in the September he is shumber of the ADvo. every week to various parts of the country. He
gays the demand for Đownsheep was never so good as at present.
Messrs John Elliott \& Sons, of Kingston, Ont., have concluded their year's business of shipping
cattle to England. During the year they made 48 shipments. The number sent was 7,000 cattle and 5,000 sheep. They met with no serious mishaps.
Mr. D. Flionser Mr. D. Elliott states that this year the business
has been unprofitable, owing to the high freights has the glatting of the English market with Ans-
and and the glatting of the Enghish market with Ausers in the Montireal market having attomipted to
"bull" the market by taking all the space ine butgoing vessels, but found their attemptef failare; the Kingston firm got a number of English steamships to come to Canada and deliver for. them. The
average price paid in Canada per head for cattle average price paid in Canada per head for cattle
was $\$ 80$. These sold in England at from $£ 20$ to was, leaving but a bare margin after expenses. The best cattle came from west of Oshawa, as did also
the sheen. the sheep.
(10mmercial.
Fabmer's Advocate Ofrice,
London, Nov, 3rd, 1881.
The past month has been one of unusual warmth, with warm rains and fine growing weather. The condition for the winter. Wheastures have been unusually good, and the make of butter and cheese has been good and the quality very fine.

The trade in this article has been rather quiet, when compared with the excitement of the previous month Prices had gone to such a pitch that
a reaction was bound to come. It must also be borne in mind that through freights have been unusually low, and should they advance to the average figure for this time of year that advanoe alone
would made a decline in wheat of 12 cents to 15 cents per bushel. It will thus be seen that should the English markets remain about as they are and
freights advance, that cause alone will make a still
further decline in wheat. The speculation in nonthe, so much so that many of the Chicago houses had to keep their emplos
Wm H Trafton
Why. H. Trafton, Jr, of New York, re
"We have had a fairly active spot demand for wheat, and a good degree of activity in options, and at times there has been less oonfidence in the which has been largely due to unfavorable English and Continental advices, to the material increase in Eaglishe and Prench ports. The quantity now afloat for Marseilles is surtfoicent to meet the requirements of that city for some months, and the
floating supply for the United Kingdom is equal o their foreign requirements for some months to come, notwithstanding the shipments from this coast have been so light. From all advices to hand this week from Ghili, Australia, New Zealand,
British India; Austria and Russia, we are guite certain that Great Britsin, Germany and France, will obtain adequate supplies from : :ources other
than this country to tide them over to the middle of January, when they count on much larger sup to May, without calling on this coast for mor than 230,000 quarters Weekly Now, it is very time is quite sufficient to meet their reguirements for some ten weeks to come, but they claim that they will be able to get along, without anything of when they wiil want somie of our strong wheats
and flours, but far less than we have estimated. It is very ovident that their large supplies of four
from the Pacific coast are quite certain to exert a most importarit influence on the future value o wheat, far mote so than is generally supposed, and to itt great abandarce, and low prices current fo Hour here chiefly due, and we have no doubt thi Pacifice coast flour will continue for many month o be a most important factor in the trade.
barley
s in good demand, and prices are well maintained do with the prioe of this aryticle.

Have not moved very freely as yet, notwithatand ing that prices have got up into the seventien. A these prices they are too high for export. The prices.
APPLES.

The English market keeps steady and also Mont Teal. The ehipments of apples from Montreal are last year. Want of cars is making it very difficult o move them $\mathrm{s}^{2}$ promptily, and a a audden change o emperatare would endanger many of the ship Montreal shipmentif at 24 s .

Bayers are still running about the country pick ing up potatoos, and one would suppose from the anxiety to buy that there was going to be a potato
famine. If prices go much higher we think the demand will fall off about in the same proportion as the price advances. It will, therefore, be we for farmers to use a certain amount of pres. CLOVER SRED.
The market for this article ean scarcely be said
to have opened in Canada, although there is a good deal of business doing in the States, both at Toled to say. From reports we have seen there seems to be plenty of seed all through the west. Still, we do not think the outlook justifies excessive prices, as the best advices report a probable go
demand from France, Germany and England. cherse
Has ruled very dull, withadownward tendency. So
little has there been done the past month that it is hard to say what the price really is. However, factorymen are somewhat more willing to meet
the views of buyers, but not enough to lead the views of bayers, but not enough to lead and October, and the sellers asking $12 \frac{1}{\frac{1}{2} c}$ for the
same. No doubt there will be a move at some same. No doubt there will be a move at some
price within the next two weeks, as the first of price within the next two weeks, as the
Norember closed a large per centage of the fac-
ories, and they will be anxions to clear out their tocks by the 20th. Even at 12 cents we do not nany have themselves only to blame for not get ing more. Dozens of factorymen who refused 13 parison of the shipments this year and last fiom Montreal and New York, we find that the shipments of this season so far have been in erfoess on ast year, and we do not think the make of Spp
tember and October is much short of last year. butier
Has been in sympathy with cheese, and very pasturage of the fall month has improved the nake both in quantity and quality, As soon as for their butter it will move off. Whenever the price of butter is foreed up over 17e to 18 c it be-
comes dangerous to hold.

FARMERS' MARKETS.

$$
\text { Lonpos, Oxs., 3rd November, } 1881 \text {. }
$$






wholesale produce markets




Per cable, 68 s . chimese markets Market very dull: Eales, Little Failis, N.Y., U.S.A., Oct. 31

 Twenty-three factories reppresented. Selle ins it .





> LIVE STOOK mapkets.


















 nary num
quality.










Mr. Abel Steel of London Tomatip, Optef told


 loads. These were sold for $\$ 310$, and were grown on an acre and ninety rodid This piooo of yround
 London market Rive hundred and thity-eith


PerikRS consist of two classes：
Op halineral views，is open，frank，candid．
 The other thinks he knows enough and de siress to know no more－that is，if he has to exert himself to do so．
on defiries to have the best farm，best
stock，best liouse and surroundings，and to stock，best house and surroundings，and to
read the best publication in reference，to hie calling． －the dheappent implement，stock and seed are good enough；if he can be induced to take any
publication relative to his calling，it must be the
cheapest．
One desires open，free discossion．
The other desires to work in darkness．
On ma may desire the interest of agricul－ ture to stanid first．
${ }^{6}$ The 8 ther mind desire party to predominate． Beware onough，who takes some inferior porblica－ tion，ior saya，one condemnatory word against The ADVOCOTE that has been established and is sup． ported wittoat you
Otrie main thay farmer＇s Advocate is the only journed in Canada that is devoted to the cultural paper in Canada；that it has always agricultaral paper in Canad，that ind has alway armer thould take it that these facts are the opiniont of upwards of
en thousand of the best pa If you are not a subscriber，you cannot expend \＄1 that will do more good to yourself and your If you are a subscriber，you can show this to a neighbor and add your remarks．You know the ADvocurz has been improved every year，and every provements．

Tur advertisement of the Ontario Commercia College at Belleville，Ont．，should command the attention of our readers，and particularly those in prepared the set of farm acoounts for the Ontario Agrioultural Commission．Send for their circular． B．Gort，of Arkona，Ont．，has forwarded his satisfaction to his customers．He is a reliable nurseryman and intending purchasers will do well to obtain his catalogue．
A farmer in Middlesex County has grown on of Liece of land Ilx39 yards（ 400 hills） 50 bushels sound products．
Mr．Alex．McKenzie，of Alvinston，Ont．，who，
with his family went to Tom Hughes with his family went to Tom Hughes，Rugby，in that sunny climate，and is on his way baok to hat sunny climate，an
＂Canada，Our Home．＂
Ploughing matches are in order，and a sulky．
plow contest for prizes was held on the 4 th wlt on plow contest for prizes was held on the 4th ult．on
Mr．Charies Coombs＇farm，lot 27 ，con．4，London Mr．Charies Coom London，Ont．

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thantit that ever won and held the
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[^0]:    of any other fowl, except, probably, the Leghorn. |good run they will take care of themselves, $\mid$ We have had an excelient cross with the Game
    good run they will take care of themselves, and
    We have had an excellent cross with the Game

