

AND FIOMM MAAGAZINTE.
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## THE FARMER'S ADVOCATE

Home Magazine.
wilhiam weld, Editor and Proprictor

The Only Illustrated Agricultural Journal Published in the Dominion SUBSCRIPTION:
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## Our Prize Essays.

A prize of $\$ 5$ will be given for the best essay on "The Management of Colts during the Fall and Winter." To be in this office by the 15th Novemb
Competitors must write on one side of the paper only. The essay receiving the prize is to be the
property of this journal. Unsuccessful essays will property or his jequest by sending stamps for re turn postage.

All fodder, corn, \&c., should be cut before it frosted before cut, do not leave it out to be rained upon.
upon.
Cattle that are being fed for market should subject to an over amount of labor in obtaining subject to an over amount or their beef will become tough and dry, like that of the ox, haring a large amount of muscular development.
For the destruction of the pea weevil an ex cask and fill a saucer of bi-sulphite of carbon on the top of the grain; cover the barrel with a top. All the insects will be dead in three or four hours. Do not bring a light near, as the bi-sulphite is of a combustible nature.

Dear Friends,-We have had so many applications for extra copies from our subscribers who wish to increase our circulation, that we ave determined to send extra copies of our October number to all who may apply, and to nany others in different parts of the Dominion. We shall consider it a favor if you will show this extra copy to leading farmers and others
whom you think should take the parer and are ohom you think should take the parer and are ommendation will aid us to increase the utility f the work to be done by this journal.

Yours respectfully,

## The Month.

The prosent fall has been already marked with ore large fairs and a general higher class of exhibits through the country than that of any simiGr time in the history of the Dominion. Many of these shows were highly successful.
From reports it appears that in central. Ontario
 sy, coarse grains, fruit and roots are reported, with a few exceptions, above the average.
The reports from Quebec are very similar to hose from Ontario.
In the Maritime Providees and Prince Edward's Island the harvest has been one of the most bundant ever gathor of lare and the yild was superior. The potato crop was also most very super
Apples should be gathered as soon as they show n indication of dropping, or will come readily rom the tree when pulled. (ireat care should be taken in sorting and packing.
Mangolds must be taken in before they become
ouched with the frost. It is mors profitable ouched with the frost. It is mors profitable nd pleasant to harvest all roots before the cold
fall rains and frosts set in. Builing fo fan Buildings for farm animals should now be made
comfortable. and the stock should occupy them When it is cold and stormy. Farm implements should now be stowed away where needed, paint or varnish the wood work. A varnish of two-thirds resin and one-third mut ton tallow is excellent for protecting iron or steel.
Live stock should be well fed now, that they may begin winter in high condition.

$$
\begin{aligned}
& \text { Many waste products may be utilized. } \\
& \text { the root tops, but not in large quantities a }
\end{aligned}
$$

he root tops, but not in large quantities at one these, especially your sheep. Force your fattening tock along; they will put on flesh much more rapidly now with the same feed than in the cold weacker. Do no than you have feed to carry through and keep in good condition, but keep as many as you
can feed well; the more you feed the better will can feed well; the more you feed the
be your crops, if you manage properly
be your crops, if you manage properly. well; it is more profitable to feed the tailings to
your stock thau to market them with your grain.

See to the Bulbs. Toward the end of September'and during Ocsuch as crocus, hyacinths, tulips, crown imperial, narcissus and lilies. The earlier they are plantod, narcissus and hilies. The earier they are plantod, insures a strong and early bloome the next season.
When the planting is left until November, the frost soon penetrates the ground, and root-growing is
suspended until spring, and they will not bloom suspended until spring, and they will not bloom
until they have made a certain amount of rootgrowth. All garden bulbs require a goont of rich gat
den soil, but crude manure den soil, but crude manure should never be allow. ed to come in contact with bulbs, as it is always
injurious to them. It is not necessary to talke up bulbs every season and replant them; they are really the better for being allowed to remain in the
ground for two or three years. Lilies may remain ground for two or three years. Lilies may remain
for even four or five years. In consequence of the sey possible to leave Gladioli buds in the ground throughout the season, in this latitude, and they should be take up and stored away. To do this
take hold of the top of the plaint to be lifted with one hand and with the other lift it out of the
ground and shake off the adhering soil. If desired ground and shake off the adhering soil. If dexire
the variety should now be labeled. Care should be taken not to injure or break off the stalks above the bulbs. The plants thus taken up are spread
out in a shed protected from rain or aun, and loft out in a shed protected from rain or sun, and loft
until the tops are sufficiently dry. Then, taking
care not to break the stalks, make them up into care not to break the stalks, make them up into loose bundles, and hang them up in a celliar free
from froet. Here they may be leit undibtarbed till about a week before planting in the spring; when
the tops are cut away, the bulbs cleared of corme the tops are cut away, the bulbs cleared of corm
and roots, and separated. After a few days of reat the fresh breaks will be healed and the bulbs may
be planted, each one being surrounded by a little clean sand.
Mr. John Snow, who with his father and sons years, says:-Canadian farmers ohould send to Great Britain 3-year-old fatted animals, weighing from 1,350 to 1,450 ibs. (live weight), and yearling sheep that will weigh from 70 to 80 lbs. (dressed)
These should be well fatted, with plenty of lean meat in the careass, nicelyy covered with fat. He says our sheep are generally fat enough, but have
a great lack of lean meat. He condemns the a great lack of lean meat. He condemns the
Leicester and Cotswold breeds, and says no fratclass English butcher would have either, as they are too coarse in the grain, carry too muoh fat and
too little lean meat. $H e$ thinks the breeds beat too little lean meat. He thinks the breeds best
suited to our use are Oxford, Shropshire, and South. down, in the order they are given, and recommends farmors to improve their stock by using the
best pure-bred males. Where single farmers can. best pure-bred males. Where single farmers canown the animal jointly. Mr. Hall, who sells the largest number of Canadian cattle of any man in Commission, agrees with most of the above, but prefers the Shropshire to the Oxford aus a mutton
sheep for the English market, and urges upon the sheep for the English market, and urges upon the
farmers the great necessity of high feeding and
forcing their animals to early maturity. He dis. forcing their animals to early maturity. He dig. courages sending rams to England, but says the more good wethers the better. These gentlemen
speak highly of Shorthorns and Angus Polls, but under no circumstances should grade males be
used for stock purposes. Among the hoge used for stock purposes. Among the hogsikshr,
Hall gave preference to the middle-bred Yorkshire Hall gave prshire; thought the beest quality of pork Was obtained from the Berkahires ; did not think they grew as fast as the Yorkshire.

English Letter, No. 18. [TPON OUR OWN CORRESPONDENT.]

Liverpool, Sept. 1st, 1880.
Liverpool, Sept. Ist, 1880 .
On, the 7th of llast month there was a heary fall of reing; Whieh deluged the whole country, floodec the grace to the hopes of the farmers for a good season. But brighter times were in store. After this heary downpour, the weather cleared up, and for twonty-four days there has not been one drop o rain, but olear akies and hot suns have prevailed. The change came just in the nick of time. Much of the hay crop in the low lying districts had been rotted on the ground, and much more swept away by floods; but in the north a great breadth was still unout, and this has been well got. The corn orops were in a bad way, but the wonder almost ther of the las ary moderate calculation places the harve now being reaped over the whole length and breadth of the country at fully double the value of that of last year. Nor is this all The potato disease, which was showing itself vigor onaly in many places, is checked, and the crop proving one of the biggest and best on record Turnipe are also good; and beans and other field arope are of the best, whilst the after growth graseen and olover is such as to give a position groat advantage to the dairy farmers, and for of atock for the fall markets. Yet another benee aff the orms of the "ffloke," which, in the early ,our ourg to the excessive wet, were again doveloping and attacking the flocks in an alarming degree. I have just had a run through the heart of the country, from Liverpool in the north o Hastings, on the South Coast ; and I must confess that I never enjoyed a ride more. There is a practical aspect in the beanty of a landscape waving with golden corn, or studded thick with gathored sheaves, which neither the fresh green of the spring nor the snowy mantle of the winter can give it. My journey south carried me through the region devoted to hop growing, and I am glad to likely this year to have a full share of the general agricultural prosperity which seems now, in a sub. atantial degree, to be assured
I found, from returns which have appeared in various publications, that the harvest in Europe generally will be satisfactory. France wid have about one-seventh more wheat than last year; the ther crops are generally good, ane in all the principal dintricts. In Austria there has been some falling off from the anticipated results, but stil the tintal will be above the average. Italy has an unusually abundant harvest ; and that of Ger many, Eastern Prussia excepted, is fairly satisfacory. Thave read fearful accounts of the agricul Hiso has suffered, and will have much less grain for export than usual. You, of course, know far more of your own and of the States than I do ; but the whole of Europe is coming to regard you and your neighbors as a scrt of grain bank, equal to all drafts upon it ; and though, of course, we prefer to have good orops of our own, it is very pleasant and re assuring to us to have you to fall back upon. Th only problem that bothers me in the situation is this:-Supposing that you go on increasing your prodacion of grivis the hoxt five years, at the meantime require less, owing to a succession e cod harvests, which are due now, according to the law of avearge, what is to be done with the sarplu: produce: Will political economists pleas advine \& It in well to look a little ahcad.

I have already referred to the losses sustained during the transit of live cattle from American ports to this country. A oertain mortality duritg heary weather cannly heary. A correspondent of the Daily Neus' writes as follows :
"During the winter 1879 and 1880 public atten-
in was drawn to the excessive mortality on board steamers bringing live oattle from America to this ountry. The following iostances may be quoted:
. C. Stevensou, s., 1,276 tons, 378 cattle shipped,
 attle shipped, 219 deaths. The cause was stated which compelled the masters to keep ports and
whand atches closed for the safety of the ship. Now all is changed, the summer if here, ans has been "dead
Atlantic during the last few weeks calm." The ports and hatches of steamers could
therefore have been constantly open, and there therefore have been constantly open, and there
also would have been comparative freedom from excessive rolling. Notwithstanding' these favor-
ente circumstances two steamers have lately arriv able circumstances two steamers have lately arrivda at Liverpool from the United States, showing . 1,503 tons, 130 cattle shipped, 30 deaths ; the City of Bristol, 1,802 tons, 460 cattle shipped, 127
deaths. I trust that the Board of Trade may cause deaths. I trust that the Board of Trade may cause
strict inquiry to be made, as I do not hesitate to atstrict
tribute theses preventable losses to improper stow-
age and defective ventilation. The public has age and defective ventilation. The public has
lately shown itself morbilly sensitive in the case lately shown itself morbidy sensitive in the cat
of feeding the reptiles at the Zoological Gardens.
What is the suffering there inflicted compared with What is the esuffering there inflicted compared with
that endured by numbers of pent up oxen whilst that endured by numbers of pent up oxen whimer
being slowly suffocated in the hold of a steamer being slowly suficated
whose temperature varies from 80 to 100 degrees
To To prove that these losses are preventable I may
add that some time ago $I$ inspected a steamer that add that some time ago I inspected a steamer that
had brought cattle from America, and complained to the captain of the insufficiency of ventilation. He stated that it was the fault of the charterers,
who, in reply to the remonstrances, said they who, in reply to the remonstrances, said they
'would not incur the expense as the cattle were would not incur the expense as ine corance com
well insured, and if they died the insurancer
How far these observations apply to the policy of the Canadian shippers in particular, 1 know not; but, if there be any truth in it at all, what a miser ably short-sighted policy it is, to say nothing of it she foed lost but the insurance companies, havin to make good these terrific losses, are bound to keep up their rates of insurance, and shippers may rely upon it that ultimately they and their customers. will be made to bear the loss, the bulk o which might be avoided through a alittle foresigh and expenditu
Amongst the visitors to Canada this fall is a
gentleman who, It think, deserves well of the Do minion, and of all who have an interest in it.
refer to Mr. Dyke the Dominion refer to Mr. Dyke, the Dominion agent at this
port. I have on several oocasions been brought
professionally into contact with him; and, so far as professionally into contact with him; and, se far as
I am competent to form an opinion, few men de vote themel .
Mr. Dyke. has represented Canadian interests.
in several countries of Eurupe, and in different capacities ; but es watching the interests of Canadian trade. Hi activity and watchfulness undoubtedly contributed in a main degree to the exemption of Canada from
the restrictions of the Contagious Diseases (animals) Act in regard to the import of ilive cattle; his in many other ways he has been abbe to mak
his post here one of substantial value to the whole Dominion. Mr. Dyke left on the 26ith ult. for the parpose of making a tour through the Dominion,
which will be extended as far west as the term of his leave of absence admits; and I need not sad
that his thorough and recent acquaintance witi the great North-west will be of immense value to the department Which he serves.
During Mr. Dyke's absence the Wurıng Mr. Syke's absence the Liverpool office Grahame, the energetic agent of the Dominion at Carlisle. "Allan" line of steamers is a honsehold James Allan, the founder of and senior partuer in that enterprise, which occurred at Kilmoolie, $N$
B., on the 25th ult., will be an item of regret to
your readers.

## Sheep Breeding:

At this season of the year permanent improve
 selection of a male for the coming season, and no specific rule can be laid down to govern che darmer Each must select with special rear will counter lock, and abtect whist in his fook balance any defect. Wro mave exis mutton quali fies, but are deficient in wool, then select a male especially good in wool; and other faults must be similarly treated, always breeding from pure bred males of some variety or other. In choosing a variety, select one whioh is most suitable to the vicinity in which you live. A great error has ex isted among the Canadian farmers which ha caused much disappointment and finanoial loss Instead of improving their native stock for mutto and wool producing purposes, they have either kept unimproved stock, or else have sold all their native bred animals, and invested as extencively as their means would allow in pure ore and have endeavored to become breeders of pure bred have failed, few men by nature or education being have failed, few men,by nature of educaion of such failures an odium would arise against pure bred stock, when in fact the fault was entirely due to the fast of a man engaging in what he was not by nature or experience fitted for
Our advice to the general farmer would be, improve your native stock by using nothing but pure bred animals, of good constitution and early maurity; also by liberal feeding and constant care. Breed for the butoher and manufacturer only and leave the breeding of pure bred animals for tock purposes to men whon experience and rature has led to the calling. When business is vote their in this manner, profits will be realized y both farmer and breeder, and the serious losses and disappointments which now ocour will be avoided, and above all, the quality of the general toek of the country will be greatly ${ }_{j}$ improved. This error has existed not only among sheep, but among all varieties of farm stock.
For several years sheep in Ontario have attracted a great deal of attention, bat never more than at the present time. There seems to be a revolution
 Downs now coming forward and contesting for the first position. The Hampshire, Shropshire and the Southdown are the most promising among the varieties of Downs. The Hampshire and Shrop shires being preferred to the Southdown for export to the English market by several good authori ties, we believe they will be preferred by the general farm
The, exportation of live stock to the English market is a means of bringing the Downs into popu lar favor, as their meat demands a higher price in varieties, and another influence in favor of the Downs is the present tariff, which is causing a greater yearly demand for home-grown wools greater yearly demand in majority of cases pre ferring the medium wools.

A farmer says that he has found from experience that six Cotswold sheep will not consumfe more food than a cow, and are more profitable. For a lamb of this breed, weighing 125 pounds, $\$ 5.50$ is dice eight lambs per annum and fifty pounds of wool.

## THE EXHIBITIONS

## Toronto Industrial Exhibition

On the 15th of September we entered the grounds. Near the gate the glass hen house was conspicuous. This was well patronized by visitors. It is very pleasing to see the hatching process progressing artificially. Hundreds of chickens were to be seen in every stage, from the first appearance of the beak its comrade, and hould how fight for its possession.
The candy factory was next passed. This drew crowd of watery-mouthed admirers, and pleased those that had leisure. The next most conspicuous attraction was the Agricultural Implement building. The first and most conspicuous machine to be seen was Haggert Bros'. very handsome and substantial threshing machine in motion. It had the finish of a piece of drawing-room furniture, and was running as smoothly and almoot as no lossly as a river. We passed through the building, which was filled with useful machinery of various sinds the binding harvesters. John Ellott \& Sone was the first to be seen, Harris \& Sons' was near to it, then Mr. John Watson's. All these machines have peculiar merits, but the Whitney Binder, made by the Toronto Reaper and Mower Company, drew a greater crowd around it than any other mplement to be seen at the Exhibition. So thick were the people around it that although we went to the machine several times we did not get a good view of it on either of the two days we were there. This building has been increase. It was well filled with implements that did honor to our country, and are quite equal to any the world can produce. With the exception of the binding machines and the Imperial Harvester, made at the Globe Agricultural Works, London, Ont., we noticed no new implements here. Around this building are the agricultural engioes and other implements. We have neither time or space to dilate on every implement that you have seen at every exhibition, and heard about again and again, but our particuar aim is to give you ints and machinery.
Mr. John Able, of Woodbridge, exhibited a new agricultural engine. It is constructed in such a manner that the steam, after passing through the fist engine, is used immediately in an engine a little larger, the steam passing direct from one steam chest to the other, and both acting on the same piston rod at the same time. This Mr. Ablo claims will save a third of the fuel and water used. There was a trial of engines an quantied with a certain quantity of fuel and bing supplied with a certain quantity of fuel and ond on the band wheel. Mr. Able's.
Mr. J. W. Mann \& Co., of Brockville, exhibitd four new implements that are deserving of attention. One is a drill, by which seed and fertiizers can be sown at the same time. The seed is put in one hopper and the fertilizer in another. Two separate tubes carry the seed and fertilizers to the earth, when they are covered and rolled in an agitator, consisting of revolving spikes, preents the clogging of the forils the app the fortilizer into the depositing tubes. This machine drawn by one horse. The other machine is a seed attachment that can be placed on any hay rake. This sows all kinds of grain and grass seed broad-cast, and appeared to do its work well. A cloth was laid on the ground and the seeder drawn over it. We could see the manner in which it dintributod the seed. It was tried with grass
seed and oats. It has a simple regulator that wil guage it to sow any kind or any desired quantity to the acre. Another implement was a grass seed
sower. This was placed on a light wheel, like sower. This was placed on a light wheel, like a
wheel-barrow, and it is easily wheeled by one man It has india-rubber cleaners inside, which dis. tribute the seed through the machine evenly They have also a drill for garden seeds, which wo were much pleased with. Its mode of feeding and covering the seed appears very efficient. We con sider these implements deserving the attention of farmers as much as any new implements we saw at the exhibition, and no doubt many will find the benefits of them the coming season. This is the first time these implements heve been exhibited in Western Ontario. Mr. Mann also exhibited a po tato planter. It is, we believe, the first manafac tern, but it now does away with the neoessity of importing them, as had previously been done
Mr. John Bartlett, of Oshawa, exhibited what we consider the best implement we have ever seen for cutting the tops and roots off tarnips. By drawing this implement through a field the turnips are topped and the roots out off. The tops aro picked up rows and the turnips are ready to bo rots and raises ther ; it also cuts the tops off car exhibited an implement for cultivating drilled wheat in spring. This implement has two sets of teeth, one wide the other narrow, one for use when the wheat is young and weedy, the other fo loosening the ground between the drills when it ranged as to to ground is hard. It is so ar tween the rows, or to throw it out of gear at leisare. It is worked by one or two horses. It will be a long time before the slovenly farmer will in-
vest in such an implement, but the best farmer vest in such an implement, but the best farmer
will find a profitable use for it. A cart was on ex will find a profitable use for it. A cart was on ex hibition for spreading manure. The bottom of the cart is maw to the and of hese slots are gradually rollers, having spikes in them, take the manure from the end of the cart and evenly distributes it over the field. The display in the Machinery Hall was much the same as last year. The only novelty we noticed in this building was a grain crusher from the States. It is constructed with a series of concave steel plates, having shapened teeth something similar to very short saw teeth, or like deep file cuts. A series of revolving steel cog wheels revishing rapidity. The proprietors claim to grind or crush it at the rate of forty-five baide per hour, also a new mode of gumming saws and sharpening saw teeth. Messrs. Leslie \& Son, of Leslieville, and Mr. John Grey, of Parkdale, nur serymen, each had a display grounds neatly laid out and planted with trees, shrubs and flowers. The display in horticultural, dairy and agricultural buildings was very creditable. In the agricultural hall in particular we noticed a collection of agricultural products from Muskoka, conspicuous among which was a bundle of very fine heads of wheat, just about as ine as nature can produce porium Wheat", ${ }^{\text {god }}$ apecime fruits, and even tobacoo, were exhibited. It ap peared to us remarkable that this display, large and extensive as it was, was collected and brought here at the expense of two individuals, one named S. Parrish, the other H. Mann, both of Huntsville, Muskoka.
The Ontario display of roots, particulariy mangolds, was something astonishing. A very fine
specimen of mammoth white rye was exhibited by specimen of mammoth white rye was exhibited by
C. Grey, of Thornbury. One individual was very busy'selling a coarse, black-headed wheat, claiming
it to be the $\$ 75,000$ wheat spoken of by us as hav ing been discovered at Guelph. Notwithstanding our informing him it was not that variety, as the other sample had a totally different felta and superior quality of grain, he still maimutaiked his arronenus opinion.
The main building was well filled with tits usual manufacturers. In some departmentis there wore exhibits superior to those of dethet yay and in ome there was not quite as large codisplaty, gie7 The Manitoba exhibit was displidyed in the top story; many would not soce it'theter, an the crowd, heat, dust and labor of dsconatigy the teps rendered the approach to it inconventent and npleasant. The display of agrioultural ppfoduc ions was fair, but the time that had elapsed sinc the specimens were procured, and the immature some to emit an odor that was not desiratide. The Indian wigwam, the tente, the iled and thbiladian relics and curiosities drew ten timed more of the attention of visitors at the exhibition that the products of the soil. But it lif swell to glte the public all the treat wo can at these exhibitions, and the mere plod of the mind on graing trait stock and machinery may well be varied with pleasure to the visitors and profit to the asso ciations.
Outside of this building might be soben wbuffal there were two young fawne. Both of the gebaider there were two young fawns: Both of theseader
to the attractiveness, but the great sentras oo attraction was the horss ring, there then argw
assembled in thousands. The trial oit sped the hardle jumping gave life and anfimation an the masses. Man is an active being anamationd delightity to
see motion and activity, whether in maneor in tiny see motion and activity, whether ind manamer in miny
of the lower orders of animals. Next to man the of the lower orders of animals, Next to mag the
horse is most admired, and the naster he goes and the greater the danger of breakingithis treder the larger will be the gathering, and the laggeitwillthe receipts of the association be or cone tume 28 , $99 m e$
when these exhibitions must be conduoted on commercial principles; the publio are no longer twiting
to support agricultural demonstrations in the saime way as they support poor houses, anylumi and way as they support poor
other charitable institutions.
On Wednesday evening thare, was a meating of
stockmen held in the Albion hotel. Amond stockmen held in the Albion hotel Amped Ampose
in attendance were Mr. Porter, owher of the tirs in attendance were Mr. Porter, owher of the Grst
prize Clyde stallion, Mr. Gheney, propfitur of
many prize animals: Simon Beathie the importer; many prize animals; Simon Beattip the, ipporter;
Jno. Willer, R. Miller and W. Miler . Meesra.

 various speakers addressed, the meating th"Con-
gratulating and friendly remarks gere made, nd

 had shown more care or better juafgmedid at thi
exhibition than is generally the ansei Havaly
 cision. We never heard of so few oomplaints
made before. The sheep, Cotzwotes, Shyof hires made before. The sheep, ototswofd,
and Downs, wete considered to Hiave been the bebt ever exhibited in Canada. Mr. S Besttio was
pretty well oiled by several of then pretty well oilod by several of thequpegigers, He He
was considered to have done more pood to the was considered to have done more goo the the
country than any other imprter, anid
an a man of business was esteemed highly howotable.t. Jno. Miller, sen., stated that Mr. Beattie had made one Cochrane. Oñ the question being put to Mx

 in one year. Mr. Juo. Miller said that theerapught
mentioned. to be three Ietters prefixed to that anato Dis
His actions are loudly condemned, and he he con His actions are loudly condemned, and he is conthe arricultural interest than any other man in
Canada. Mr. Beattie stated that at the prapent
time there were three hundred Herofords iy ing in quarantine.
We spent Tharsday at the Exhibition, and re.
turned to London in the evening. The Committee turned to London in the evening. The Committoe
of Management deserve the thanks of the Toron. of Management deserve the thanks of the Roron
tonians for the very energetic and effient manner
in which this exhibition has been arranged aud in which this exhil
generally managed.

STOCK AT THE TORONTO INDUSTRMAL MXHIBTITOM. The late Toronto Exhibition has been a great success, particulaty if the dieplayy of stock, which
 From ang amory the live stock there was a great 1ack oc condificication, especiafly among the horses,
 bas
 binnor probat, bat maty of supetribt therit. In
 paity never whis bettel. Hewstil. Johi Snells So tidisid Uliven, and edpeditily worthy of note among the display was a yearling ram whieh woe
 4 head


 Mhis latit prige certaninly is a very creditable vic tory for the cill whe Downs chref excellenee thei people consifer the thewns ed ram, which took is
 and wam ${ }^{90}$ greaty "adimirea. We believe he is on of the best theep we ever saw. Fis aged ewes ar very good winning tit, 2 end and 3rd in their tlase Ther tambs were alag very profrising Mestre Reotyy Nilder, of Chaitmotitt, Ont., bexhibited 26 Thgod of fify chass animais. "Thtiri yearlitg eweswere
 ther clase, Thay Have recently bee imported the leading shows, including the Royal. In the

 England, beating the sheep which beat him at th
Royal. Then and showe atwo shear ram *hich

 dito but were very good lot. F. W. Stone

 Mingme sThe, feiceastar's, Were in large numbers and

 Shak empener, thowed, 17 heapad, wiming 1 st and 2nd
 Wowt hink thit ind of the beest lot of Licesters we 1 lobififf, sheepp, buf not prepared for exhibition.


 were very good, and won zad on the treeding ewes,



 Sixudy y midted de, some of the exhibitors (but not salh foptoring the game animals chate ef a prize oc



 dichuy yefrat. the Provicicial and never. beaten, and 'again'teot first in his class here. Mr. Spencer' yearling ram was also worthy of special notice, win
ing 1st in his class this sheep has just arrived from ing list in his class; this sheep has just arriveds the Prince of Wales. Mr. Spencer also won 1 st on
aged ewes and lst on pon of Southdown sheep

Robert Marsh, of Rionmond Hill made a fine exhibit of 20 head, monong which were two superior Princo of Waless, winning 1st in their class. These aged ewes ware, alse of high merit. Mr. Pearley,
of Paris had 28 head on exhibition, which were
very or Paris, had ereditable, theangh thin in flesh, F.W. Stone
very ores.
exhibited 2l, but not prepared for show parposes. Robert sugeaded in earrying off seyeral prizes. In this
 exhibit was not of Abbington, showed a very nice fohan of ik Thos. Thos. Wilkinoson, Burton Station, ex
hibited a very even flock of 14, and won several
 Bobd flock of 11 hasd Messra. Lee \& Hood, an
Beatty \& Miller, esch made exibits in this, class The Shropahire class, was never po well represented
in Canada Mesrrs. Beatty Miler showing an
 clasg, includiug she for best flock, All, the ani
mals shown by these gentlemen were recently im
 Great Britain. F. H. Spencer, of Brooklyn, ex-
hibited 12 head, winning several prizes. including hibited th hood, winning severa, prizes. ihes animal
2nd flock priza and lst on aged ram. This
Nat Was sapecially admired, and many pronounced him
 conse Mare George Hood made a very fine exhibit, Wmo, Whit
good ones
The exhibit of Wool was not up to the standard; The exhinit of prize of the prize was not inven early enough in the seasons, most of the breeders han.

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(To be Continued.)
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Dominion Agricultural Exhibition.
This was the name given to the Quebec Pro vincial Agricultural Exhibition this year. A grant of $\$ 10 ; 000$ was specially made to it, besides the usual donations to agricultural societies. The Bxhibition was held in Montreal we to 10 following days of Septemb trom Toronto vantage of a cheap e and return being $\$ 6$.
We arrived in Montreal between 11 and 12 We arrived in Montreal bas crowded. We went to the Intelligence Office totry to procure a bed, but after going to several places and finding all full, the best accommodation, we could find at any of them was to sit on a ghair na a paish this much, so at midnight we went to the house of one of our subscribers, rang the bel and asked permission to lie on the floor. We ob tained a good night's rest on a sofa, and
to the Exhibition on Wednesday morning
to the Exhibition on Wednesday morning.
The grounds are located in a fine, large, leve space on the side of the mountain and convenien to the city. The Montrealers have erected a in with liags. On the side of the mountain that overlooked the grounds the leaves of the tree were tinged with beautiful autumn tints that ar too grand for artist to depict or pen to describe The scene was grand and pleasing.
The attendanoe of visitors at the Exhibition wa very large; between 50 and 60 car loads of visitor had pla sta aditional attraction Genel militery and neval display regatta, boat hore and foot races, hurdle jumping, lacross matches, processions by daylight and torcilight illuminations, fireworks and a balloon ascension The weather was fine, and visitors and citizens were pleased. We believe it has been a financia success. Scarcely an accident of a saw on drunken person, and very few robberies were committed. Two suspicious characters were ob
served and followed by the police in disguise; the
were seen to take a pocket-book from a lady's pocket, and were arrested before the lady knew he had been robbed.
There was a good display of general stone wares in the main building. The best agricultural display consisted in horses.. There were some lydes, Percherons, Fies and donkeys. The horse ring drew by far the greatest share of attention. The hurdle jump ng gave great amusement, especially when an ccasional horse and rider tumbled together. The horse stalls were the best we have ever seen t any exhibition, and are a pattern to be followed in Ontario. They are built with two double doors at each stall; the doors open inwards, and thus the op doors can be left open and isitors. The Alderney stock were well represented. Many be
The Ayrahires were much more numerous than any other class, and there was a strong competition in every instance for the honors; but for some reason or other three of the best herds in Quebec were not represented by a single animal. From this point we presume our Quebec friends (or enemies) may take exception at our further de scription, for, from the name "Dominion Agricul tural Exhibition, something bell it our duty to expected, but nevertheless we could obtain them. Write the nacts as ever a dozen Shorthorn cattle on We did not see over a that only one person ex hibited in this class. There were only 5 Gallo ways, 5 Devons, and 2 Herefords.
Cotswolds and Leicesters were very meagrely represented, and the quality was not at all equa to what would be seen at any exhibition in th West. There were a few very fine importe Southdowns. G. Whitefield, of Rougemont, ex hibited 12 West Highland sheep. This class is no known at the western exhibitions. ${ }^{\text {and }}$ have cather pretty-looking faces, and long, curled have rather pretty-looking faces, and long, cang dis
heavy horns. Their faces are black, having heavy horns. the them. The carcasses appear tinct white spots on them. The carcasses appea
smail, and the wool, if wool it might be called was more like coarse hair than the class of woo was morestern men would wish to raise.
Swine,-There were a few red pigs exhibited. These pigs have red hair and a red skin, but there being no ticket on the pens, and no catalogues rurnished, we found it difficult to ascertain wh were the owners of different exhibits, as we can not speak the French fluently enough to under stand what these people say, and we generally go
a jerk of the shoulder when asking for informa jerk of the sising of the Erenchman's shoulders implies no, or he does not know. The latter we ound to be the case when en
thing pertaining to agriculture.
The pertaining exhbitors of of stock from Ontario that we met were Mr. Main, of Walton, and Mr
Featherston, of Trafalgar. They exhibited swine Featherston, of Trafalgar. They exhibited swine
and poultry, and cleaned out the poor Frenchmen and poultry, and clear. In these two classes alone
in a shameful manner.
the carried oft 50 prizes and took $\$ 500$ in prizes, they carried off 50 prizes, and took $\$ 500$ in prizes Thides informed us that if they had been up to Middlesex, and purchased a few of the Lincolns, Cotswolds, and Leicesters, they could have abou
Cotasses also. They said further, that Ontario farmers could have take nearly every prize offered for agricultural pro ducts, if they had turned ont.
The Agricultural Hall was a god building, The Agricutural ler, and the
made of good lumber
he principal thing to be seen.
the principal thing to be seen.
A few Brazilian ex hibits of
A few Brazilian exhibits of cotton, rice, cocoa
and ore were the most conspicuous on one side, and ore were the most conspicuous on one side,
and Prince Edward Island occupied a corner with and Priend and canned fish, grain, leather, \&c.
The dairy products were in this, building, and The dairy products were in this building, and
made a very small display. The roots were a very made a very smain
small show. Grain was rather better represented.
Manitoba had a good building in which to make
agricultural products of that country, but the
prinicipal attraction was at one end of the bailding This oonsistod of a mussum of Indian relics, \&cic Here the crowd assembed. This point took the
attention of the exhibitors,
to keep the people
 Very littlo attention was paid to the agrieultara, products, compared to this part of the exhibit
One of the attendants informed us that he hai
 the people moving on in ororder One Member or
Pariaiment threatened to thresh him, and fift Parriament thraatened to thresh him, and cirt
Frenchmen had done the same. Notbing oould Frenchmen hal
induae him to
trouble again
Trouble again
The Americans
from the Northern States ex The Americans from the Northern Statees ex
hibited a handsome rairoad car, very tastefully and neatly fitted up with the products of thei ${ }_{s i}{ }_{\text {sil. }}^{\text {Fr }}$
hibition $\begin{gathered}\text { Thand fin } \\ \text { The }\end{gathered}$
The exhibit in implements was very small.
 that was exhibited in Toronto.
Larmouth \& Sons, of Montreal, made the largest
display of useful a arricultural implements made by display of useful agricultural implements made b bre
one exhibibitor. Many of these implements are manu factared by Cossett \& Bros., of Bro sivile
consiconons conspicaons among which is Cosestt's
and Cossett's one-horse reaper and mower. Mr. Jas. Jeffrey, of the Empire Works at Peti
Cote, $\mathrm{P} Q$, made the largeet display of any the machine manufacturers. Among his exhibit, was 2 Paris Green sprinkler. This is a anew inven.
tion. It sprinkles the Paris $G$ reen in a a prray along one or two rows at a time as desired. It is wheel
ed along the drills, and it appeared to us th ede along the drills, and it appeared to no th
best machine we have yet seen for that purpose. Gurreys \& Russell, of Dandas. were the most suc.
cesaful exhibibors we heard of in this department. They sold one car--load of raspers to Mospry
Moody $\&$ Sons, of Terebonne, $P$. $Q$, and and anothe Moody \& Sons, of Terebonne, P. Q., and anothel
car-load to Messrs. Baushman \& Sons, of Sorrell.
P. $\underset{\substack{\text { car-loal } \\ \text { P. } \\ \text { Ther }}}{\text { ater }}$
Q. are as numerouns and as just as the tollowing the societies of less pretensions than that of a Domin ion one to prevent repetitions of ench a natare
Some of the following we saw, otherr me hear of of She firtst prize for butter was awarded to ar poo The inrst priese for resembling salve; the thain was. entirely worked out of it, if it it ever hax amy
Some said it was oleo-margarine, but as we saw We consider oloo-margarine far superior to it:
In the Stock Department we were informed that
 and in Weastern Ontario ; we believe the Sissex
to be black pig. The e exhibitiors of implements informed us that
the judges tere ontirel ignorant about mple
ments, that thay did not know the difference be ments, that there didit not know the difiference be be
tween a wheolbarrow and a mowng machine, and tween a wheolbarrow and a mowing machine, an
that their awards-so little did they know that they were ashamed or dare not attach the prizes.
Many of the awards were not made known even when tite machines were pulled to pieces, ready to
leave the ground, and the exhibition had been leave th
closed
In the
closed. In the Grain Department we examined some o the grain and made inguiry of some French farm.
ers.
We could see Craking a handfol of the Angus oats they all in
Tormed us they were Canadian oata. We then
 took a handant from ango or black then tariak. hhesd full of Polana, and they were allo Canadian oats.
We believe that a French farmer knows oats from peas and oats from wheat, but we do not believe peanan on in thonasand can tell the right name
that on
three varieties of oats, wheat or peas that might three varieties of oats, wheat or peas that migh
be shown to them ; we know there are man
 when in a orowd, as at a Dominion Exhibition
there will be many farmers that have read and here will be many farmers that butter is, what a wheelbarrow is, what an Essex pig is, or what an
out is.
Very fees of the French farmers take Oat is. Very few
eaper of any kind.
A.D. Cables, of Ottawa, formerly of New York, cultural Exhibition. Why, here's the last day and no award of prizes. Why, in whiskey, images
and pictures the prizes were awarded the second las, but griiculture was not attended to till the
last. These French folks are 100 years behind
the age, and what is more they appear perfectiy Contant to stay there. This is no plat. The roason the hortionltaral diaplly was so
Thall was becanase the Hortiontural society were holding a separate exhibitiot ab aboit two miles from the ground; this thousandis trinitorm die not see more officers that taske an interest in agriogtur

## Ontario Provincial Agricultural

 Exhibition.We attended this Exhibition on Wednesday, the 29th of September. The exhibit on the whol evinoed a sad falling off; most particularly wa his noticablo their absence. The atténiance was not as good a former years, and the loss of money from the lick of visitors must be met by an additional Gov ornment grant, and partially by the inhabitante o Hamilton. The expensive and inefficient Board o Management are wasting the money that shouldibe applied to the agricultaral interests of the counatry ach exhibitions are unworthy to be ealled Pro incial and agricultura. da Then measures as are roally " heir benefit, and not pretended to be so
Notwithstanding the falling off in interest an the unsatisfactory and expensive management there was a good exhibit of stock, many of th ame animals being here that were nhown. retained to ne making the best display ruit to be found in any part of the Dominio We cappot say one word about the display of grai and vegetal be the hours of 12 and $33^{\prime} \mathrm{o}^{\prime}$ cloc oun Wednesday afternoon, but the building wa closed from the inspection of wisitors at that time thus, after having this exhbition open for two ong, expensive weeks, they were not ready to open the agricultural hall on that day, which was the last day but one, as Friday was of no account to visitors. This closing of parts the of in at such a time, whon the attend, is deserving the alt toral exhibitions any way concected pattern to follow from a Proe sial Ehition, especially when the Board is so ld, so numerons and so well paid. The Dominion Exhibition at Montreal evinced just about'as bad a pattern to follow in their poultry department; a common township exhibition would be mamaged better in this respect. And yet there are a lot of citizens and exhibitors who desire to carry off the lion's share of the public money for prizes, who attempt to discourage and dive of ore far more hese than at me the larger monopolizing exhibi. tions.
The most astonishing thing we noticed was a first prize ticket placed on a wooden framed oulti. vator made by Mr. C. Thain, of Guelph. This is cultivator that has been in use for many years, and notwithstanding the many new iron and shed We remas, this th reply wis made. "We have tried the different inds and the no coltivator made equal to this
ne at the present time.
On entering the main building the most constanding erect. In some exhibitions we have attended funeral equipments have been displayed in separate enclosures and in a less conspicuous
manner. The musical instruments near by were
sotuding their lively dancing airs. It bropght to our memory the words of Tennyson: "Lives of great men and re
midst of life," eto

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Elgin Agricultaral Exmbitiohz7e held at St. Thomas. This is about go mifo Prid his locality have with a proper suritit of ion, exerted themselves to eatablish ${ }^{2}$ cal exhibition to represent the prodrocifign and dvapoement of their favored, righ send produatife
 Hy crowded with the fine agricultural Joroduc ions, To compare this Coonnty 1 , gibibiton with the display, made in agricultural pepquctiof gitath
 Iterally echpsed al that conld bo Hep obit
 ram five to ten times m mugh to be sean and admired in the above-mentioned department an there was at the Dominion Frhibition 1 have alloturned out to compete, for tha prizes.
 sheds, but the spirit of ryyarry to popatin inctst this is was quite should be. i/ The farmers hereare reat, Tive independent men, and know, whith god gitod is, and keep it it In the implepent department many agricultural implements were in motion , wna in this department this axhibition thraw the pominion Exhibition entiply into the shade 1 Mearu. MoKay sand Paargon, nurserymen, a piece of ground, which they yapatly phation with
 any quantity of good, batter and building ' was very'good, and beantífell's mrranged. The hores tho win here hatrictod chmostr an unach atention an the Governor Ganorat
The stock may not have bean cquite no dithice an the infported, high-bred and high-fad animele to be seen at the Domimion Exhibition, but rortreed. ig and feeding quatity, and for gharat utaty,
 The Marquis of Lorne Avored ince entabition with the honor of his prear foir Hia sead to the und hes mo
 hibition: Mir Thi King one of thit erant mag nates of this exhibition j exprespedan in thot trangoes ternis of diggust his divapprobation an enderghow being hel 1 on the exhibition grounderini therotity of London, whie at tha ex chay wh id

 greater extent than wo hispe Ever abbif ang \%'thibition blooked before.
"The managers wiehed to give all that ontartain. ment possible to tyiffore, gida to do thit they Ihad

 stand was ereeted on the water for the lladtearand other spectators, and go great whe she atowa or so woak was the bu4qugg, ha, in sport the stand tumbled a a good deal of fun to thots who alia not acecupy the grand stand, but the poor thatios wefor Whed out in a most deplorable plight, Aripping Irom head to foot with mud and water, and, mor shance
to ahange or dry themselves, Hortumetaly, pone to change or dry
were drewned.

## Dairymen's Association Exhibition.

 The cheose exhibition of the Dairymen's Associ Hafintroin was the larigest exhibition that has ever lose prometition cis Tada. There was some ver Hatitis of Fara, whicisiso took the first prize for hh beet twhite eheese made during the month o weepptake prize for the beet oheese made any
 York tait Doceumber. The daifymen talk of an in time nexty yeir. The following is a list of the prize winnerf:-H. S: Lassee, of Norwich, prije Por' beest eoloredid otheose made daring the seaz son Hois Waddel, of Corinth, ,eeond; C. . . Alo wn, ing tite seaton . W W Harris, of cliora, first prize Chas. Whibbon, Ingersioll, veoond; L. L. R. Richardson
 Aws Whatert Corimith; third, A. Atccison, Liis towely For beest white eheese mado during the
month of Augist First prize, W. Hurley, Fullar-
 Jail Mriott, Deroham - For best colored made in July - Fitrst prize, Ai Atehison ; seoond, W.Squire,
of Logan ; third, James Elliott, Dereham. For



Canadiau Rye and Barley
A tetter recently received in this city from Belgium' by one of our foreign consuls, oontained the
following interesting paragraph: "There is a lively following interesting paragraph: "There is a lively
inquiry for rye at Antwerp, as there is very little in the warehquase. Canadian rye would bring
in 24 francs (\$8.68) per 100 kilo. (A kilo is a fruation over'" lbs .)". Many of our readers may not know that Canadian rye and barley is heavier and is woith an average of three cents per bushel more. Antwerp.imports about $10,000,000$ bushels of rye.apnuaily, and last yoar 300,000 bushels were
taken from Montreal. She also imported last year taken from Mustreal. of which were Canadian. If furtheve enoouragement is wanted to induce Canait is offored by the imports into Germany for 1879, which were obtained from official sources in this city, and which are as follows : Rye, $29,591,416$
cwts.; wheat, $18,482,402$ cwts.; barley, $6,441,146$ cwts, ; wheat, $18,43,402$ cws.;
cwtas, oats, $5,420,739 \mathrm{cws}$; maize, $, 0083,808$ cwts.
Letters received in this city show that merch. anto bothin. Germany and Belgium are fully aware of the excellence of the Canadian rye and bariey,
and our exports no doubt would have been much heayer in the past, if ocean vessels had not been drixen from the . St. Lawrence to New York by ex-
cessive pilotage, towage and port charges.-[Moncasaive pilotage, towage and port char
treal Star. Sheep versus Weeds.

It is a matter not suffieiently known that sheep give matarial assistance in keeping land free from
weeds. Mayy of the most pernicious weeds with whioh farmere have to contend are greedily relished by theep in their early or soft state, and ultimate ly eradioated in this way. It has constantly come
under omp observation that land stocked to a
 of sheep farming is not appreciated by agricultur ists It may also be observed that the younge the pastures are. When the sheep are put on t
graze the more effectaal they will be in keeping in graye the more effectual they will be in keep
subjeotion and finally killing out the weeds.
The Wheat Mubie. - The wheat midge or fly is a serioun depredator, which farmers with care can
in a larga measure mitigate, although none of the remedies practiced have been sufficient to insure the soreenings of the fanning mill abound with the yellowy larye of the midge, they should be burned or fed under cover to swine and poultry. If
thrown out the larva will eventually mature into a swarm of flies, that will exist at the expense of
the wheat crops the following season. Those the wheat crops the following season. harvest in their cocoons. They may be diminish ed if not wholly exterminated by turning the wheat stubble under with a plow and burying them to
such depth that in their efforts to work their way such depth that, in their efforts to work their way
ap to the surface the following June, they will be. come exhauisted and perish.

## \$, oultny.

## Hints to Beginners

As we are in the midst of fall shows at present,
and some readers of the Advocate may have talkipn and some to somers ofecies or strains in this depai

Any who intend purchasing this or any se hai better invest in some work on poultry and carefully peruse its columns, and compare his yard
and taste. For all breeds are not alike in their requirements and dispositions, any more than horses, cattle or sheep.
To an old experienced breeder all kinds will bear confinement moderately well, yet there are some ters. To a new beginner there are many mishaps to be endured that only experience can tell. Because one has only small compartments he need
not be discouraged. The majority of our exhibi not be discouraged. The majority of our exhin
tion birds are the occapants of very small apar ments, as most of our poultry fanciers are res dents of towns or villages.
Mr. H. M. Thomas, one of our most extensive
breeders, says :-"All that is required to pair or trio of fowls healthy in a box four feet pair ore the year round is to provide them witn
square plenty of food, but just only what they will eat up
readily, and plenty of pure water every day readily, and plenty of pure water every da carrots,
them spme kind of green food, such as onions, turnips, apples, or a small bunch of clover tied up tight and suspended in a cornerlof their box.
The boxes must be kept clean, and sprinkled with The boxes must be kept clean, and sprinkled
coarse sand." He says that for years he has had coarse sand. He says that yor years side in a
twenty or thirto of those boxes side by side
building erected for the purpose; and sone fifty building erected for the purpose; and so ne fifty
boxes, two feet square, where birds were kept for exhibition.
After this experience one need not despair to
venture on one or two pairs. I know of parties who have kept successfully and made profit on ten supplying the table with fresh eggs the year round; they had four more small boxes, where hens were
setting, and reared twenty-six chicks until large setting, and reared twenty-8ix chicks until lailers. These were Brahmas, but I would not be afraid to venture Leghorns at the same risk, for I have had seven confined in a place about large enough to
turn around in, and a small separate box, secluded at the side, to lay in, in which were found four or five eggs every day durlng their incarceration. If one has eight or ten dollars to spare, he may tions, with a lath run outside. The eaves need not be above four feet high, the roof double boarded and a window in the gable end, and augur
holes bored in above the window for ventilation. If pur hasers would ask breeders to mate their stock for breeding purposes they would do so, and
could sell pairs which would give better satisfaction as breeders than their exhibition birds, for they pair as nearly alike as possible, and probably hey pair as nearly alike as possible, and probabl as, if mated for breeding, there would be a choice
made to check the defect in the offspring. For ought not to be so in Leghorns, then the he should be pure white, and vice versa. You
progeny would be more apt to count highe trogeny would be more apt
than if mated for exhibition only.
If you have none or little experience, you ha
better be content with one trio (two hens and cock) for one year. Then you will have some ex perience and have gained some knowledge by read
ing works on the subject.
Contributor.
Rye is an inferior food for poultry; wheat is the best, corn is next, oats next, and rye is inferior to
all these. If a mixture of all is fed to a flock, th corn will be taken first, then the wheat, and the be preferable to any one singly. Fowls should ne be confined to grain food alone; some green veget able food should be given with it
firm in London The Export of Apples.-A firm in London,
have written to the Hamilton emigration agent, Mr. John Smith, asking them to place them in communication with some of the principal apple growers and shippers of this Province, as they ar in that branch of business. The present season, they say, promises to be favorable for the shipment of apples of good quality to England, the English
apple crop being a very small one.
©ht Gpiaty.

## Preparation for Winter.

This is the last opportunity of the season to cau ion bee-keepenss to know the precise condition of heir bees. Examine every colony thoroughly and
critically. If they are if ort of winter stores, sup ly more this month; if you find a colony weak, olony queenloss, give it a good queen immediate your bees in, should a cold snap catch them next month ; see that it is dry ; put in your ventilators now and prepare the windows for darkening at a moment's notice. If you conclude to winter out-
of-doors, do your packing this month-the sooner the better, for rains are coming on, to be succeedod by cold, frosty nights. Leave nothing to chance; but perform your duty promptly, thoro-
oughly. If you have fine stock, you prepare proper food and stabling for them; you are under as great obligations to provide for your bees, which are

Honky Plants. - Wherever the apiarist may be Honky PlanTs. - Wherever the apiarist may be
ocated, he should observe the time of the year when a scarcity of honey is likely to occur, and taking note of the fow neotar yielding flowers at this time, will discover what could be cultivated to advantage. In our dry sandy soil, which is so
easily affected by drouths, we fail to find a better honey plant than sweet clover (Melilotus alba), blooming from the middle of June until late in autumn. 'It is mete" that we should talk about is seattered now upon the highways, gravelly is scattered now upon the highways, gravelly sowing and not eaten by stock, the honey flow
may be materially increased. One of Canada's may be materially increased. One of Canada's
great honey producers furnishes this seed to hands great honey producers furnishes this sead to hands
working along the railroads, who carry it in their pookets at all times, sqwing it wherever they dispockets at all.

## The Skunk.

There is a constant war waged by the farmers ganerally against the skunk, which is widely con. is blamed for destroying large numbers yearly, especially in the winter season, about the time the now begins to disappear. Thong this has long highly spoken of in some American papers of good
authority. The following we extract from an exauthority
change :
It is well-known by hop farmers that the akunk is an invaluable assistant in the hop yard in destroying the hop-worme and cat-worms whed ath indifference the destructive warfare carriod on against their friend and auxiliary, and which has been so nearly exterminated in some sections The worms, not having the skunk preying apon that the ground seems full of them, and a great cry has gone forth that the worms are eating up
everything, for they not only attack hops, but verything, for they not only attack hops,
corn, grain, grass and garden stuff suffer alike. A writer in the American Journal of Scienoe,
whe says this animal is very dangerous in some sections where it is often affected by a disease which ren-
ders its saliva so poisonous that its bite is more to be feared than that of the rattle-snake. He gives many instances where persons have been bitten, enerally with fatal, and always with dangerou onsequences.
Bee-keepers find this animal a decided injury here the hives are set near the ground. It is
very fond of honey, and will eat bees readily. It epredaticus are nearly always committed in the
night. It will alarm the bees by scratching on night. It will alarm the bees by scratching on
the entrance to the hive, and as the insects cainnot ly by night they become a ready prey, and are eaten in large numbers. This nuisance may be
avoided by setting the hives up a distance from the ground.
The Indiana Farmer, commenting on some Bok ected with the State Agricultural Saciety It bids fair to become a valuable addition to ants of this class in this part of the country; it is wo or more times during a season. It is of frae of more times during a season.

Agriculture:
Application of Manure.
It has been well established by chemical experi-
ment, and we believe the fact has been no longer questioned, that stable or baruyard manure loses a large part of its fertilizing properties by fer-
menting in masses in a situation exposed to the influence of rain and sun. A partial decomposition
takes place, and the gaseons and the most soluble part of the heap are either scattered by the 'winds or washed out by the rains. It is equally as well
settled that if the fermentation takes place in the settled that if the fermentaclan akes place in the
soil, these tyaseons and soluable portions of the manure are absorbed by the 'earth and retained there antil they are imbibed by the spongioles or
mouths of the young crop plants, and that they mouths of the young crop plants, and and development. Now, if long, unfermetited manure is spread
upon' the surface, these gaseuts matters are lost; upon the sarface, these gaseoves matters aire lost, heap, for they are छpeocifically lighter than" atmos. pheric air, as is shown to the common obsierver in the steam which arises from the manare heap porar-
ing the process of fermentation. The soluble ing the process of fermentation. The soluble
parts will not, however, be lost, as in the icase of
the fermentation of the heap. But if the loig the fermentation of the heap. But if the long
manure is only partially coverod by the harrow, will oiny an athe theut which there ceuld be mos fermentation; and without fermentation, on cooking to some extent, the fertilizing mattier in
the manure cannot be taken tep and assimilated by the plant.
If, on the 'other hand, the long and green manure
is covered deep with the plough, it not only bene is covered deep with the plough, it not only bene but it generates heat and Benefits mechanicully by rendering the soil more open and friable, and nfore permeable to warmth, air, and moistire facilitates the deeomposition of plant food, "aceeler-
atés "the "growth, and inereases produck Then, ates the growth, and inereases produck Then,
 applied), the following year the plough turns up to the surface the sarbonaceous matter of the manure which remains, and which is highly valu lan, and the only one we have ever heard, is, that plan, and the ony is buried deep by the ploth the in preference to mixing it with the surface soil, th
rain will carty down its fertilizing matters be rain will carry down its fertilizing matters be
yond the reach of the absorbents of the plants. yond the reach of the absorbents of the plants but we doubt 'its' correctness. If the fertilitivg portions of the manure should, to any very grea
extent, be carried into the subsoil, the subsoil extent, be carried ithto the subsoin, heore silled with fertility, and would only require to be brought np to the sarface and
exposed for a short time to the influence of the su and rain to render it capable of supporting a luxuriant vegetation. NVe doubt if such a conditio of the subsooil was ever found, and so far as our
experience and observation go, all sabsoils require experifnce and observation go, eli sabsoils require
longyontimued exposure at the surface and heavy mintruing to render them fertile.
Ore rale therefore, is to bury unfermented part of its good qualities is taken up and held by the soil, in readiness for the young crop. With ermented manures, on, the wther hand, or thos as rotted dung, bone meal, \&e, the tendency of whioh is to sink into the soil, we would
apply different rule. These subserve the purposes apply a different rule. These sabserve the porposes
of agriculture better by bleading them by means
 soil, where they will respond more promptly an
act more efficiontly than if buried deep by the act more efficiently than, if buried deep by the
plough. Whe are in favor, howere, of having our
dreasing go through the fermenting process before dressing go through the fermenting process befor ous portions, absorbent must be firely applie
duriug the process of fermentation. Varions sub sutances will answer this purpose, such as ashes,
dried muck, \&o., but we have uever found any thing equapt to the finely comminuted dust fren its removal, and its value to the farmer can hardly
be overestimated. To test its absorbing power, just throw a thin stratum into the privy vault an the modetin improvements of which most thrifty farmers have availed themselves, that of keeping the thanure heap undei cover, there is no longer
any damage from rains, and the only but important any dainage from rains, and the only but importan
daty that remains is to prevent waste during the
process of fermentation. $-[$ Ex,

Concerning Mover. While a large class of the farming community
hold to the opinion that clover is better and more of it done during the late summer and autumn. eonsiderable proportion of the clover sown at all seasons is mixed with timothy and other grasses. benetit of the clover is not reatized in it the majority
of cases, beause care was not observed to sow with it varieties which blossom at about the same time The clover in consequence goes to seed before the
later grasses are ready for the mowing machine Even under these conditions the clover has not been without value. Its long tap roops have put
the ground in condition to be readily acted upon by air and moisture. They have also added to it fertility. Among grasses which blossom simul taneously with clover, and therefore adapted to seeding with it on meadow lands, are meadow
lands, are meadow fescue, perennial rye grass, lands, are meadow fescue, perennial rye
Kentucky blue grass and Italian rye grass. Olover makes an exeellent crop when sown alone,
especially on light, sandy soils. The practice of especially on light, sandy soils. The practice o
sowing clover with a grain crop is, however, a ver common one. Concerning the desirability of this general custom there exists a wide diversity o sown in the spring with grain succeeds, better than that which is sowy alone, because the grain grows quickly and shades the tender plants from the sun. enery that the clover crop is liable to a greater rrisk of being lost when the grain is cut and the
plants are finall exposed. Dr. Harlan recommend plants are finall exposed. Dr. Harlan recommend to grow ouly the latter. The buckwhent will when in blossom and permitted to remain on cut dxantage to mulch the clover and prove of great dover may be the crop. Whenever and however sumface soil at the time of sowing.

Rich Soil vs. The Hessian Fly The Hessian Hys is a feeble insect when it first This often happens, both in Spring and Fall, about the time the insect is transformed into the fly, which seems the only eause for escape of the wheat plant
from universal attack both in Spring and Autumn. A sharp frost at the right time, when the fly is in its
eeble state, will so decimate them that several years will pass before they again appear in suoh
numbers as to be damaging. I have never known ny remedy against the ravages of the insect after the Uy has deposited the egg. The ova soon finds
itself encased within the leaves of the plant, near se root, where it
troying the plant
The only aid the wheat plant can have when
attacked by the fly, is a strong and vigorous nemy by throwing out new tillers as the old stalk is destroyed. On a rich, strong soil, and in a
moist-growing season we frequently harvest a full rop when the insect has done much damage in the destructive. The use of superphosphate applied it the time of seecting, has proved very beneficial in giving a stronger growth to overcome the attack
of the insect. I have also seen a heary and healthy growth of wheat where rich manure is applied,
when on other portions of the same field not manured the erop w
R., N. Y. Tribune
GRasse AND MANCRE.-Mr. Lawes, of Rotham
tead, England, a noted agrieultural experimenter act in regard to the grasses. They are like so many, freebooters, and seize all manurial wealth
with eager avidity, cauh according to its own nawith eager avidity, cauh according to its own na
ture. It is encouraging to know that the best Grasses win the day when supppier winds prosper
top dressing, whist the inferior kind
most on inferior soil and under starvation manage ment. The only exception to this is in the case o
sewage mase most. Mr. Lawes asserts that the ultimate her
bage depends not so much on the description o seed sown, as on the sert of manure and manage-
ment given afterward. It would seem, therefore
that that the excellence of the permanent meadows an
pastures of Hritain is the result, not so mach o limate, as of yool busbandry. The British farme
op-dresses his prass lands, a practice deeme top-dresses his grass lands, a practice deemed
wLolly unnecessary by the average Canadian far
mer.

Disposing of the Reot Oroph There is not an animal on the farm but may be with a small portion of dry feed. Horses do well n a peck twice a day, ormpped and mixed moal of
chaffed hay, If hard worked a quart of men any kind or bran added will complete a sufficien ation. Cows, oxen, calves and feeding beevel
lourish well on roots as the largeas part of thair ourish well on roots as the largest part of thea
diet. The yellow fleshed mangels give a rioh color diet. $\begin{aligned} & \text { and ovil flavor to milk or oreamm, and fon wintor } \\ & \text { dairying they are indispensable. A peok of rooter }\end{aligned}$ dairying they are indispensable. A peok of rooteh
with a quart of oil cake meal and bran, mixed in equal parts, given twioe a day with dry hay or fod hay be feep cows well up to their ma. Silar ow heavy in lamb, which should be fod ouf emall Pigs thrive wonderfully on mangels and suga
beets. Geese will live wholly on them ohopped up ine. Poultry will peok out roots and devour the completely, Roots, corn and hay, will koop the ne acre of roots will subsist one oow for throe acres will supply twenty-five cown for six monthe what other crop can pay so well or be mo mally
grown for the amount of food procured?-[Wh.

The Muck Manual says that oue load of oow manure mixed with one load of dirt' or muck ghree soon as my fall work was done, oarting muok wa ed a larg number of loads of muok and leave The stable manure is not suffered to acoumulate ated with muck. The outlet of the house drpen contributing its share toward making a fow losic of valuable manure. The water-closet in a valu muck hinary in composting muok, We havo one suds and other refuse beneficial as manure. Mud is a great absorbent-it fixes all the volatile in gredients of the manure pile that escanpe fuom the along the ordinary farm work and drew out over 200 loads of muck and leaves put in large haspy it field farmers know that this is a mosis alashl manure. It is perfec work any farmer may do of this sort in the court of the season.
Agricultural School Farms. - Professor BaldAgricultural School FArms.- Proiessor Bald.
win, Assistant Royal Agricultural Sociey, ady
he thinks that use could be made of the Agri. he thinks that une courd be made of the Agri.
cultural School farms for raising new varietier of cultural School farms for raising new varietios or
farm products, as potatoes. farm products, expriments to pay, but if they were gone into they should be kept separate from the ordim. ary work of those iarms, as a moder mas not fulfiling
not show a proper balance sheet was not show a
It is stated by the Montreal Star that the aver ada, for tanning purposes, is 120,000 corde and nearly 80,000 cords are exported annually to the States, the exports, in frect, in 1878 , amounting to
106,374 cords, valued at $\$ 360,259$. The Seoretary of the Montresl Board of Trade estimates that about a million and a quarter of trees are cut down every year to sopply the eonsumptive and export
demand. At that rate our hemlook forests will bo completely destroyed in less than 15 years, for
besides our shipments to the States, about 16,000 barrels of extract of hemlock brrk are annually ex. ested in the preservation of hemlock foresta are moving in the direction of legislotive reatriotion. Efforts are to be made at the next to impore paria. port daty on all bark leaving Canada. Proaigiona waste is indicated in the statement made by the star that these trees are felied in immense quantre
ties in the Eastern Townships, and allowed to rot ties in the Eastern Townships, and all on the ground after the bark is out thed :-
The last Ontario (tazette contains appliontions
for the incorporation of the Fonthill Canning and for the incorporation of the Fonthill Canning and
Fruit Drying Company, with a capital of $\$ 10,000$. A course of teaching in agriculture has been or*
dered by the French Government into every prim. ary school of that country.
In Brantford the Sorghum faotory in moon to be
 Many y pedote qite oifferent paits of Canade, par-
 Provinces and in Manitoba, are not aware how easily and cheaply theyroancothd bebuty and comfort to theinohomes by 'very little care
Whai pasting "By' the awellings of the inhabitants of that northern city, St. Paul's, Minnesota, nof creen, plants or shrubs attracted our admiration morethin the beantiful and graceful festoons o Virginia Creepar. lat euriched the dwellings o that city. The frosts of that nor nof too nevere to prevent it thriving there, we thought, in greater grandear and perfection
than we had ever seen it before. Again in Wpedatock, New Brühs. Again in Woodrtock, Naw Brünss
wiok, we notived itit thriving with





 know, thot overy lady will aid wi to. ing Hien anomes and thoses will thrive in ${ }^{\text {in }}$ Pe most northera parts of on in the most Dorthera
 hi 0
There are six varieties of this Creeper; the best variety has
little gummy tendons or feet that
attach themselves to buildings or trees, and require, bow. Just try and send one new subscriber, and no railing to hold them, up. Mr. Sharp, Woodstock, N. B., has command of a large quan tity of this, the best kind of Virginia Creeper, which he sells at 50c. a plant. We have made arrangements for a quantity, which we purpose to supply in the following manner: We will send on root free to any eld sabscriber, post-paid, to any arbor in which a large party could sit and dine, olegantly covered and draped with it.
Any one of our readers may profit by the present rough designs we illustrate to show how cheaply such elaborate decarations can be made; any rough wood will answer for the frames. We also give you an illustration of the leaf, and the little fruitlike balls or feet which gum themselves to the
walls, In the autumn, after the first tinge of frost, walls, In the antumn, after the first tinge of frost, walls. in the autarn, of the leaves is turned to
the rioh verdant groen on
resemble all the bright colors of the brightest rain-
 adopt some one of the
beauty to your home

## On the Wing.

## ew denmark, n. b.-a most valuable lesson

New Denmark is the name given to a settlement of some 500 Danish emigrants, who settled five years ago about 230 miles north-west of St. John,
down and waving gracefally in the wind. In fitable lessons from the hospitable New Brapsdown and waving gracefuliy in the wind. In a any of the sister provinces, or on this continent,
may profit greatly by the lesson we are about to may profit greatly by the lesson we are about to impart, that is, if they have any real degire to advance the interest of agriculture, horticulture, or the improvement of themselves, their des
We calledatat the house of Mr. Peeterson, one of the leading members of this cotony. We found him to be a well-informed, gentlemanty person; he to be a, woll-informed, gentlemanty person; he
could speak English fluently and well.
His house and grounds were the pioture of neatness and taste. A neat lawn was in front of the house; trees and shrubs were plated, wist rustic seats were on the grouads; very neat ruationdee encloned the lawn and grounds, and thigin
the backwoods of N. B. I Wo were so much autonished af this that we made a rough thetel) of the premises, which our artist hia very much improvad, beorfuiesegr very much mproved, peato thinin nature (see No. 7, Hext peis).We expressed our sarpine of niok e sight to Mr. Peoternn, He m vited ug to go with him to got tite schopl touse, which we did whit was a sinall $\log$ building whic on enteribg wo found to be bov
tifully and thethally scoty
 with evergyoens and floner TMr. Peetonan then mforned as he wished to introduce into this he wished to introduce into this
settlement. It is this: To make the
chool grounds a garden and arboratum, to plant around the school all kinds of troes and flowers tha would grow in that locality. He said this plan would give the children a knowledge of tres an plants that could not be so well imparted in any fruit and floriculture, and when the children grew up they would always have aylove and taste for

atheng design bifore planting post office in the Dominion, for ono new subsecriber $\$ 1$ for the subscription must accompany the order Any person can easily obtain one new subscriber. Virginia Creeper makes a house; but very few of you know what a most handsome ornament it makets on arlawn in front of a house. When on Euclid avenue, in Oleveland, Ohio, the past stmmefe the urse of this plant as an ornament was more conspicuously brought before our notiee than it ever had been. In one place we noticed a cross had been erected and a Virginia Creeper planted by it; this stood about 20 feet high, and the wood
was completely covered, the long tendrils hanging

New Brunswick. It is about 7 miles from the $S t$ John River, and 7 miles from Grand Fahls, a sta tion on the M. B. R. R. The land is tolerably well timbered with beech, maple, birch, etc.; the soil is rather of a light and somewhat stony and porous nature. The inhabitants have already adopted the American plan of compelling people to confine their stock, so many of the fields have no fence. They have settled with a determinatio to make themselves homes, anc have worked winy an energy that deserves success, although many
condemn the quality of the soil and the rigor of the climate of New Brunswick.

We in the sister bronswick.
benuty, order and tefinement, and Botany would then he better knowne - - St and Botany Reader, can you imagine the benefits of such
plan? Schoolmaster, what do you know of Botany of trees, fruits or plants? School trustees, coun cillors or members of Parliament, have, any of you brought forth or attempted to introduce any plan that would do so much grod? As you may pro that would do so much good? As yon may pro
bably suppose, we said to Mr. Peeterson: "The bably suppose, we said to Mr. Peeterson." He
children would destroy the trees and plants." He replied : "They do not; they love them; they' take care of them; they take a pleasure in seeing them look nice; the children cultivate them and delight to do it." We asked if he had ever seen his native village; and it answered dmirably. Is there one or more of our readers who will try and make one step toward introducing this plan Could not more good be done in this way than any other towards imparting agricuttural knowledge?
This plan might, without any cost, be adopted, if

The plari earfied otity he said that he had in We waited impatiently at the door, but our guide ben killed by the frost fffecting thg roota before
We waited impatiently at the door, bat our guide
said, "Do not be in ah hurry; thexy will be ready
soon." Presently we were invited into the house, soon., Presently we were invited into the house,
Everything was neat and cleain, and his Yevereice had dressed himself in "hisis very' becoming black clothasuit. He wasa wall-informed, elderly gen-
tleman, and spoke in tolerably good English; he was very hospitabiele, and a sound, intelfigent per.
son. His broad, hard hands showed plainly that there should be protection ageinst papmtxy people
 Cilan sigatures under nase statementis.
Our artist rime Contrast riqgeto bua vice




proper shtroduced and encouraged. Who will he did not eat the bread of ideness. The inhabit and some other parts oul of Quebec. Perthap aid us in attempting to introduce the plan' We ants of New Denmark generally wore good, useful some of four retalerg may 'And in the tilusturtion
 realf tatie ap this plan and endeavor to carry it kinds of vegetables were growing. An orchard the habit of attending to politics and other people' out in any one school house. We will lend the had been planted, but despite all the watering and who will introduce the systema They haye a nice church erected in this settie- for these trees that had been sold to them an good nent. We called to see the minister. His house $\begin{aligned} & \text { ones at an enormous price, about 50c, each. This } \\ & \text { was }\end{aligned}$ - asmall log one among the stumps - had a neat $\begin{aligned} & \text { was most probably done by some of those un. } \\ & \text { little well-kept lawn and flowers in front of it. principted agents, and no doubt these tress had }\end{aligned}$
 neat approach, and, well kept orchards Ar
your irptement and cattle both ammered and
wintered out of toors ? Which place belong to wintereo out of foors?解

## Muskoka and Parry Sound.

The Agricultural Commissioners met in Brace bridge to investigate the state of agriculture and the agricultural prospects of the Muskoka and Parry Sound districts. The testimony given is the experience of persons who have been in the dis We give their statements condensed :
The soil is generally a sandy loam, varying from light to heavy and in places rocky. Frequently the rocks protrude above the surface, but often are covered with a few feet of earth. In all parts of the district there appears to be an abundant sup ply of good water, both for household and stock purposes. throughout western Ontario. One great detram tht to the conntry in the most remote parts,
is the lack of available communication with the is the lack of available communication with the
outside world; but this difficulty is being done outside world ; but this aifculty is being Thene
away with as rapidy as can be expected. There
will soon be plenty of railways and good transwill soon be plenty of railways and good trans
portation roads. Agricultural industry seems to portation roads. Arm of mixed husbandry, aud the people collect wealth as a rule slowly, as they be
gin with small means and are not able to do much in the way of fattening cattle or sheep raising a irst. Sheep grazing is considered proitable, and to beoome a feature of the district. Th
is likel severe cold acts unfavorably upon the pure Cots-
wold, but Leicesters do well; Southdowns are also roised, and, as in other parts of Ontario, the
breeds are frequently crossed, but in few instances breeds are frequently crossed, but in few instance fection. The same may be said of cattle raising, same as in Middlesex, while that of wool range from twenty-five to thirty cents per lb. Durham
cattle are not yet in high favor in the district, not being able to "rough it'" so well as the Devons or Herefords. Every year more use is made of the
Shorthorns to improve the stock, and crosses with Shorthorns to improve the stock, and crosses win,
the two breeds above named are quite common,
and bring about good results in cattle. Stall breeding does not appear to be commonly prac cellent, grass being plentiful and the water supply first-class. Neither dairying nor cheese making are carried on in an extensive or systemer parts of the province. No extra attention is paid to the breeding of hogs. The district produces large yields or
hay and clover, the varieties grown of the latter hay and clover, the varieties grown of the latter being the common red and the Alsike. het
growth of oats and peas is extensive, while wheat
and corn, althoush some years very profitable and corn, although some years very profitable
crops, are not generally so, more especially the crops, are not generally so, more especially the
former. Wheat suffers from blight and winterkilling. The sield averages from 15 to 30 bushels per acre. Oats average in yer fer about 50 cents per bushels per acre, and sell
bushel. The bug so troullesome in western Ontario does not seem to affect to any extent the
Muskoka peas, which yield on an average 0 bushMuskoka peas,
ek parley per acre. Brown with fair results.
Root crops are cultivated with splendid success, nearly all tield varieties being prodaced. Per acre turnips yield from 400 to 1,000 bushels, and one
witness stated that on an acre he had raised 1,000 bushels of carrots. Potatoes produce about 300 Very little has yet been done by way of fruit cul. tivation, only a few apple orchards having been planted, Crapes appear to be grown, of the very
hardy varieties, as well as some of the small fruits. hardy varieties, as well as some of the small fruits. Mas a fruit.growing country, although, with proper
cultivation, fair success may be obtained. Several itnesses gave the following rotation of crops: 1st, wheat or turnips, barley, oats, potatoes, peas,
corn, and last uats, with which it is usual to seed down. The grasshoppers prove a source of annoycertain seasons some of the crops, but as the land becomes cleared and well cultivated they disappear. Among the factories claim, where the trade the woollen tinks of in in the production of tweeds,
is gradually increasing
yarns and blankets. One uanufacturer has worked up during the present season upwards of 15,000 lbs. of wool. Emigration proceets at a held pat in
considering the advantages that are held
other places, and its development is slow. Howcver, as railways are openenent up and and god road
buit, Nuskoka will progess, and in time take at Ontario.

## Clover Root Borer

In a late number, the American Entomologist describes the clover-root borer which has caused considerable loss in central New York. Some been heard occasionally, but the trouble was thought to be ocasaioned by the white grub,
although in some cases investigation failed to mark that insect as the calprit. Possibly it may
have been the insects here described. At all vents the information given is not without interest. It was in
Prof. Riley says: Tarva, pupa and adult in all three stages of hough the perfect beetless at this season very any of these three stages, and eontinues propagating as soon as spring opens, the beetles issuing from the ground and pairing during the early
spring months. The female then instinctively pring months. The fome root, eating a pretty large cavity, wherein she deposits from four to six
pale, whitish, elliptical eggs. These hatch in bout a week, and the young larve at first feed in the cavity made by the parent. After a few days, however, they begin to burrow downwara, exteral
 the axis of the roots, and are filled with brown ex crement. The pupa is formed in a smooth cavity may be found in small numbers as early as Sep nember.
It is th
the clover in spring on ground already sown to fal wheat. This is generally done while the snow is yet on the ground or while the frost is disappear ng, one peck of seed being used the the acre. Th
clover is allowed to 0 to sed in the fall, and usu clover is allowed to go to seed in the fall, and and one crop of hay and a crop of seed are obtain
ed. It is during this second year that the injury ed. It is during this second year
of the Hylesings is most observed.
No experinients have yet been made with a view
Nom of preventing the injuries of this clover pest, an
no other miode of prevention suggests itself to my no other mode of prevention ser of the clover in the
mind than the plowing inder of spring of the second
beetle is observed.

In order to ascertain exactly the shrinkage wheat undergoes when held in a bin over winter, Michigan Agricultural College Farm, and is report ed as follows:-A large sack was prepared and filled with 200 lbs . of wheat, accurately weighed.
On November 12, 1879 , this was placed in a grain On in the barn; and, in order that the grain in the sack might fairly represent the average of that in
the bin (the bin held 150 bushels) the sack of wheat was sunk in the grain as far as possible-say the an average depth of about two feet. In this
position it has remained for six months, or until May 12, when it was brought forth and again
weighed. The second weighing showed a sligh weighed. on that of six months before, the weigh
increase being 200 pounds plus a fraction of one pound
This result was most unexpected to us, and we can only conclude from it that during such seasons as those of $1879-80$ wheat shrinks by evaporatio none at all. The shrinkage so often complained o
by millers and others, doubtless comes chiefly from "rattage," leaks in the granary, and other like obvious sources of waste. The slight increase in
weight of this sack of grain is perhaps attributable wo a slight variation in the scales used in weighing It is an interesting fact that this same sack, when 85 degrees, from $11: 30$ a m. till 3 p. m., shrunt exactly one half-pound.
S. R. M. writes thus in the Germantown Tele graph, of the lasting merits of hog manure : "E
perience has shown me that when strawberries a grown on sandy soil, with plenty of water applie during the fruiting season (nearly up to ripening
there is no manure equal to that of hogs bedde on forest leaves. In fact, for roses, Howering-
shrubs in general, (German roots, and all the little curiosities of a pleasure-garden, it is the most con
genial and most enduring manure I eser tried; and my experience was with a single heavy application,
which at the end of six years was certainly still in its prime. The soil was always sweet and clean, While the fruit and Howers were the wonder of all
visitors. Iastonished old gardeners, and produced finer plants than they, and at seasons when they
had none pady for market."

## rood for miich Cows.

## dried brewers' grains versus fermented brew

 Dr. A. S. Heath in a paper read before the Farm ers Club, Cooper Union, on the subject of dried quantity and quantity and quality of milk is more dependentupon the albuminoids than upon the starchy ele upon to the food consumed by the cow. The albu minoids are the flesh-making and the starch is the
respiratory or heat-making elements of food. Prorespiratory or heat-making elements of food. Pro-
fessor L. B. Arnold eays: 'The quantity of mill varies pretty nearly with the supply of fiesh-pro ducing fod when other circomstances are equal
'"Fresh and neat brewers' grains, when perfectl sweet, contain too much water for the quantity of swee, co them, and the milk made from them by
starch in theor
the cow is too watery and thin. Milk must have the cow is too watery and thin. Milk must have
good sound albuminoids with a proper proportion of good sound albuminoids with a proper proportion cating the use of one of the most valuable milk of smell and out of taste the fermented, soured offensive and disgusting brewers' grains as former ly used to the detriment of milk and speak only of
a food prepared from the fresh grains when taken a food prepared from the fresh grains when thach
hot from the tub and spread upon slats covered with a coarse cotton clothh, placedo over a great heat,
till they are as dry as the barley was before it was till they are as dry as the barley was before it was
malted. This is as sweet and sound as the original barley, minus 40 per cent. of starch, and can be carried in three-bushel bags to any distance and
kept perfectly sweet and sound for any length of time and at one-third of the freighit of the weet grains. There is no spirit nor acid in the fresh.
dried grains, but they are aweet and fragrant and 'But yon ask how coll
"But you ask how will you supply the normal parts of wheat bran to the dried grains and you
have : starah, 78 ; albuminoids, 29, This is admirable food for milk, and, when fed as a semislop, by adding it to a bran mash as given with roots, "For treated will give strength, but will not produce heat and will not cause near as much sweating as
hess than corn. In winter, a little orn meal may be added to the grains and wheat bran, as it contains from 8 to 9 per cent. of oil, which helps to keepp up the bodily or animal heat. he grains, both for variety and for supplying tarch and water. Potatoes are more nutritious han is supposed. Though they contain 75 per
ent. of water, yet the dry nutritious matter is rich in food elements-thus, of starch 62, sugar and gum 15, and protein or flesh-making com-
pounds 9 per cent. It will be remembered that er acre potatoos are the most valuable crrap of the
oil "'The fresh grains, directly weighed from the brewers' tubs, weigh 56 pounds per bushel, and
when dried weigh 16 pounds, or three and a hall when dried weigh 16 pounds, or three and a hal
times less than the wet grains, saving over two thimes less than the
thirds of the freight."
Curing Bebf by Inuecting Brane, - The infil ration system of salting beef by filling the blood
vessels with brine is attracting considerable at tention in Australia. In some recent experimentis at Brisbane, bullocks were treal's heart was laid bare, and incisions were made in both ventricles. Into the orifice of the left ventricle a ppe was in serted, and a stream of weak baing out all the
through the blood-vessels, washing blood. Pressure was obtained by having the brin in an elevated tank. After the expulsion of th and stronger brine was forced in until all the and stronger brine was incersels were full. In this way the distribu tion of the brine through every part of the meat
said to be complete and the cutting perfect. It is said to be complete and the cutting perfect. Tho
proposed to send to the Sydney Exhibition a whol
bullock thus preserved. No wooden vessel should be used in milking, as the wood absorbs milk, whery particle of curdled
and there curdles, and every milk, whether effected by rennet or by acidity
like the leaven of yeast is an active like the leaven of yeast, is an active agent fo
souring other milk. As curd of milk is hardened by heat and made insoluble, dairy utensils shoul first be washed with cold water and soap, and whe Choroughly well cleaned tissolved by alkali, and the free alkali o
Cur the soap not only removes the grease of the milk, but also any particles of millk which by any acciand there soured or curdled.

## maity.

## Small Dairies.

by prof. L. B. arnolid.
While there are some large and fine dairies scatbered through all the dairying districts, the dairymen of Ontario-and the same is true in many keeping only a few cows for sending milk to the factories, the main business of the farm being devoted to growing grain, wool, horses or other stock. Where factories, receiving the milk of 1,000 cows, have it supplied by from 80 to 130 patrons, the dairies average only from seven to welve cows, and a large territory must be traveled over to collect the milk. These little dairies are an unfortanate item in the dairy interests of the Province. They are quite apt to be so much turns, and to make the production of the milk, of which butter and cheese are to be made, cost more than it ought to, or need to. To assent to the fact that it costs more to produce milk from a smal dairy than it does from a large one, requires but little thought from the average farmer. It is evi dent also that it costs more, proportionately, to deliver small messes of milk to a factory than it does large ones, and if made into butter or cheese at home it costs more relatively to manufactur cows. It must be plain, then, that if dairying is entered into as a business of the farm, it will pay better for the proprietor to keep as many cows as his farm can well carry, or as his help can manage There is a marked advantage in making dairying when andertaken at all, a prominent feature in the farm management. When the farmer's atten tion is divided between dairying and raising, wool, horses and beef, the dairy, especially if a small one, is very sure to be but indifferently look od after. Where bur he or six cows are kept on cow is almost sure to be low. The dairy not oc cupying much of the farmer's thought, he is not careful enough in the selection of cows. Poor ones are permitted to remain in his herd for year perhaps, while none but the best should be retain ed, simply because he does not give them attention enough to discover or appreciate the difference be tween good ones and poor ones.
If, from drought or miscalculation in providing, the food supply of his stock is scant, the cow first to suffer, whereas they should be the very last. Where milk is not more a specialty, a falling off in the yield is generally but little heeded, and the cows dry down, to continue so for the remaind er of the season. Provision is seldom made in such cases against a long drought by preparing a fiel for fodder, corn, or other green soiling crop, an item which would be strictly attended to if milk was considered an important element in the farm er's income. The milking too, in these littl the hurrying season of the year, nor is the winte care what it should be, or would be, if milk had a more important place in the revenue of the farm. Many other items, which ought to be looked after, and would be looked after in larger dairies, are apt to be neglected in smaller ones, all of which tend to diminish the returns from the few cows kept below what they might be. While a large number of cows are relatively more profitable than a few, it does not follow that it is best to devote a farm wholly to cows. Mixed farming, pays better. I
divides the labors of the year more erually ove the different seasons, preventing a crowd of labor at one time, for which high wages must be paid,
and comparative idleness at another when wages are low. It enables the farmer to raise many supplies which otherwise he would have to buy, and farming allows of using the fertilizing material of the farm to the best advantage and ample time for breaking up and reseeding and for carrying on a sufficient rotation of crops to prevent exhaustion and to keep the farm in good condition, if not to
improve its fertility. More cows than most of the improve its fertility. More cows than most of the
dairymen keep who supply milk to the factoriesenough at least to command a careful attention from their owners-I am confident would make a
better balance in the labors and the products of better balance in the labors and the products of
the farm and enhance its income, and at the same the farm and entance ith procuctiveness by preventing the
exh austion which is sure to follow a single line o exh austio
cropping.

## Butter Preservatives.

Several notes have appeared in recent journals
on processes for the preservation of butter. Manon processes for the preservation of butter. Man
etti, in Italy, has tried the offect of a much more
thorea thorough washing than is ussually practised, the
operation being continued till the wash-water was quite colorless, but the butter kept sweet only a
few days loger than another sample washed few days longer than another sample washed as
usual. The addition of two, three, and five
thousandths of salt caused the butter to keep sweet five, fifteen and twenty-five days longer than butter without any salt; with one or two thous-
andths of borax the butter kept sweet from fifteen andths of borax the butter kept sweet from hiteen
to twenty days longer than without any preser-
ver vative. Concerning this last mentioned substance
our Consul in Florence wrote to the Commissioner of Agriculture that very successful experiments had been tried in Italy on its sabsstitution for sor salt
in the proportions in which salt is uually added in the proportions in which salt is usually added
but since scientific men disaree as to the harmless butssince scientinc men disagree as to the harmless respect to the adoption of this preservative. Pro-
fespor Beechi, director of the Experiment Station fessor Beechi, director of the Experiment Station
in Florence, bas found borax in the well waters of in Florence,
the city, and in the air, as well as in in some minera waters, of god reputation; and he themeforere con-
cludes that, at least in small quantities, the sub. cludes that, at least in small quantities, the sub
stance is harmless
He preserves his own butte by mixing with it as thoroighly as possible about
one-sixteenth of its weight of pure calcined and one-sixteenth of its weight of pure calcined and
very finely powdered borax ; the flavor is not af
fected at all, and the butter koeps admairably. very finely powdered borax ; the flavor is no
fected at all, and the butter koeps admirably. A new process brought out in Germany sonsists
in covering the butter with a layer about an inch
thick lime, a chemical that is in somenhat common use for the preservation of cider. Butter thus treated
kept quite sweet in a damp cellar through three weeks in in July, at a temperature of about $59 \circ$ Fahr., while another sample not so treated, and
unsalted was quite spoiled. From England comes unsalted, was quite spoiled. From England comes of a new patent preservative. The butter, into which a triting qquantity of the material was work
ed costing about one cent per pund of butter d, costing about one cent per pound of butter
after being wrapped in a muslin cloth, was put in to a firkin without any salt, and left, fully exposied
to the air, on the premises of the Aylesbury Dairy to the air, on the premises of the Aylesbury Dairy
Company, from the 1st of July to the 1st of Oc Company, from the 1st of July to the 1 lst of Oc
tober, and was then as sound and as fresh as a fober, and was hirn havin only a little less aroma, a about 1 per
firt. of salt may be aded to flavor the butter cent. of salt may be added to flavor the butte
thus preserved to suit the fancy of those to whom nus preserved to suit the fancy of those to who
perfectly fresh butter is too tasteless. It is affirm d that hutter salted in the ussual way with from 5 to 6 per cent. of salt will be driven out of the
market in consequence of this new discovery. If
it bears the test of trial on a large scale, it will certainly cast everything elese into the shade, it
the line of butter preservatives, and will be he line of butter preservatives, and will be
great boon to those who are forced to use butter that must be put up in a way
time.-[Semi-Weekly Tribune,
[We drew attention to the new patent preserva. tive in our January number, and have since writ-
ten to England and Scotland concerning it, but
have not succeeded in gaining any information.] ave not succeeded in gaining any information.] MLLkLVG. - The faster and more gently a cow is
milked the greater will be the amount given. Slow
milkers alwas milkers always gradually dry up a cow, and for
he reason that if the milk be not drawn about as fast as it is given down it will subseqnently be
withheld, and that withheld is, as a matter of course, what is known as the strippings-in fact,
the upper surfaoe of milk is the udder.

Grarden aud Orchard.

## Planting Shade and Fruit Trees.

We have repeatedly referred to the planting of shade trees and windbreaks. The complaint is often heard that the early settlers did their work so thoroughly in clearing the lands about their scarcely a tree standing many instances to leave hands. Let us plant without stint wherever w have found it well to do so. Throughout the coun try it is easy to get young trees from the border young trees from reliable nurserymen. Thei trees are better supplied with fibrous roots, and when planted carefully there can be no failures. We will give a few hints for planting. First select the ground to be planted and prepare it by good
deep ploughing or digging. The mellower th deep ploughing or digging. The mellower th
soil for the newly planted trees the surer and bet ter their growthy planted trees the surer and bet
transplanting let care be take the trees for transplanting let care be taken to take up as much
of the slender roots uninjured as possible. Great injury is often done by breaking and mangling the roots. Keep the roots well covered and moist til planted. Dig the holes for the trunks large, tha
every root may be spread out where it is to grow.
When covering them see that each individual roo en in contact with the soil, and plant them lean an a little to the sonth, or rather the south-west
as by this means the inclination of the top wi partially shade the stem from the baleful inflaen-
ces of the sun when most powerful.
Value of Leaves and Woons Mold.-Decayed
eaves and mold from wo ds are of considerable ertilizing value. They may best be used by mak tables and yards. There is a large quantity of cids (chiefy tanmic and gallic) in leaves, and th the acids and increase their usefulness. As the are very absorbent, being able to hold 180 per cen their weight of water, they may serve a usefu tive value. If this cannot now be done, the leaves, \&c., shoold be spread on the plowed sur-
face and mixed with the soil by harrowing. low them in would not be so well as to keep the near the surface where they would be benefited by
exposure to the atmosphere. They are found very exposure to the atmosph
useful as garden mulch.
Mr. Saunders, President of 'the Ontario Ento nological Society, says in regard to insectivorous
irds: "The greater experience $I$ have with thes the more convinced I become that comparatively
ittle help is got from birds in keeping in subjee tion injurious insects." He considers it a great from any consideration of insectivorons birds, th asect world would and does to a large extent tak creases beyond its normal limits, its natural insce enemies also increase, and soon become snfficiently
numerous to reduce the number of injorious inects to their natural proportions.
Mr. Thomas Meehan, after remarking that many young, says that the more he sees of the working y adopting ita better hed me he is satisfied that y adopting it a better hedge-especially of hone in half the time and at hali the cost than by any
other method: "It is best to let these grow until The stens are two inches thick at the ground,
hen saw them to within half an inch of the gronnd. They will then push up a perfect
wilderness of young sprouts, which can le pruned into shape the same season. On this plan the
young hedge pants are often two years wholly un.
touched."

In properly evaporated fruit nut only is there no
loss in any good quality, but there is an actual and
development of sugar due to the ripening process, varying from five to twenty-five per cent. The
cell structure, flavor and tenderness of the fruit are preserved, and when treated with water, it is
easily restoral to its former condition, thus solving
a problcun no less important than the sum Wholesome, nutritious, fresh, ripe fruit-for by
this process decay is arrested.

## Home-Made Drying House.

Whan in New Brunswiek the past summer we went to the thriving town of: Woodstock, in Cari ton Co., on the St. Sohn carried on here, and the ron works have aided to build it up; but its chief support has been the fine agricultural country in tes vicinity. The farmers here cla best lot of horses so be found in Canada. The Durham cattle are also to be found here. Th most important lesson we learned here is and fruit, frely now and he of very great importance to which appears th ports of this continent, and one that will be adopted in some locali you drawings, plans and you drawings, plans and satisffed that this plan must come into exten sive practice. Mr Sharp is the introduce of the plan which is now generaly in this is th northern eounty the are enabled to rais abundance of apples for themselves and are dry ing large quantities for the foreign market. This is rather remark able, for in many part of Nova Scutia and New Brunswick, where tidio duced, they are not abt to raise apples at all. This new plan must be adopted in the far West before apples can be successfully grown there. Mr. Sharp has also the finest plum orchard we ever walked through. He has a large variety, but a lum that is called the oor's Arctic was mor main of fruit. The plums were green when we were there, but from what we heard of this variety we should judge it far superior to anyyuality and fruitfulness.
What we wish to call your attention to just now is the home-made drying-honse. This house is invented and erected by Mr. Sharp. He claims this to be better than any dryer he has ever seen, and from the enom w fectly and in such a short spaief description of deem it proper to give yonal artist, you must it. As we areting apparatus is not quite cor ectly arranged, but any person with judgment can arrange the pipes aright. This is the principle:No. 1 represents the basement, in which is a brick furnace having pipes radiating from it. No. 2 is the drying loft; No, 3 the stove-pipe in whioh smoke leaves the furnace. No. 4 is a woode chimney. The stove-pipe heats the air in thi chimney, causing a rapid papes into the chimney the drying lort, whin pa No. 6, the furnace. No through the from the ground to the floor. No. S,
 hing we have in Ontario for hardiness, size
the figures $A, B$ and $C$ represent the mode of con
structing the floor, which is eighteen feet squar structing the floor, which is eighteen feet square
The bottom joist, A, is $6 \times 2$; the secon joists, B, are 2xl, placed only 6 inches apart, an the floor, C , is made of very small sipg, 4xt
These are lain close together, or so close that only These are lain close together, or so chese tween them.
a thin blade of a knife could be put betw
This, Mr. S. considers better than hair cloth This, Mr. S. considers better than hair cloth or
The apples are easily taken off or turned ; tin. The apples are easily taken off or turned
it is quite clean. The building is made with double walls, having a cavity of four inches between them, which should be filled with some
non-conducting material. There is no patent non-conducting material. There is no patent
on this plan. than other plans this may be, each one must de. cide. We were at once convinced that this was ar-
good plan. Perhaps Mr. Sharp might kindy good plan. Perhaps Mr. Sharp might cindy fur.
nish us with further information if he thinks ours
is not dite full enough, or any corrections in the

the home-made drying hotse.
The above description was given from a hurried observation while "On the Wing," and to make the particulars as
accurate as possithe for our readers, we wrote to Mr. Sharp, who sent the following reply, which fully explains itself:Dear Sir, $I$ Iam surppised at the accuracy of your ideas
he dry-house, obtained from so cursory an
 piec
nax
to
to
n

 thamber floor of slats; a high wooden chimney to create

There are several ways of keeping cider sweet. perhaps open to as many objections as any is the addition of sulphite of lime in the proportion of one
eighth of an ounee of sulphite of lime to every gal. eighth of an ounee fernentation has proceeded until
lon of cilder after
the liyuor has attaincl the reyuired flaver.

Packing Apples for Shipment. At the horticultural meeting at Rochester, N. I., Mr. Barry opened the question : "Have there been any recent improvements in the methods on packing and shipping fruit y by asking ", hat ship
the best method of packing fruit for foreign ship
nent $\%$ He used paper for wraping the fruit in ment $!$ " He used paper for wrapping the fruit in,
but knw of ohters using chaff in addition. Mr but knew of others using chaff in addition.
Vick had tried several ways, but preferrel using
trong manila paper in which to wrap the fruit sick had tried sear in which to wrap the fruit.
sn packing in the barrel he placed a layer of buck In packing in the barrel he placed a layer of buck
wheat chaff between each layer of apples, aud in the wheat chaff between each layer of apples, and hipped
ends put a deeper layer of chaff. had shiped
several kinds with success in this manuer. Mr. several kinds with success in this manuer. Mr
Hooker objected to the use of the chaff, as it would Hooker objected to the use of the chaff, as it would
be liable to impart a favor to the fruit. He thought be liable to impart a favor to the fruild stand ship-
that good fruit, packed solidly, would
ment to a foreign market. He would advise pick ment to a foreign market. He would advise pick-
ing the fruit as soon as mia ured. Mr. Moody
thought well of the plan of thought well of the plan of having fruit houses
where the fruit woul where the fruit would pass through the sweat-
nng process before being
barreled. Mr. Hoag had a ventilated fruit house in which he allowed hes
fruit to cool, and wher he kept it till No
ber. Mr. Moody tho ber. Mr. Moody though
the thorough assorting of apples a necessity 4uickly and very care-
fully, and be left in the sun no longer than ne cessary. Mr. W.C.Barry
left his apples in the or
chard till they had passed the sweating pro
cess. He thought they
ceuld not be placed in barrels till after thatnor should they be ship.
ped abroad till cool weather commenced.
Mr. Woodward said apples should be picked
early and handled but early. and handed
little. When they snap-
pros ped. easily frem the them. There are few greate treats during the winter and early spring seasons says the London Magathe magnificent apples
which are imported which are imported
from America to find their places on the desert table in England. however, are in a bruised condition from the effects of careless packing: A certain amount up, and unless they are they are lost to the desert table.
There is no reason why this splendid frait should as when it is gathered from the tree. A common apple before it is placed in the cask, and this tissue paper should have been soaked in a solution of salicylic acid and dried before it is used. The best preparation of salicyyoun, made with the strongest spirit, and then diluted with as much water as it will bear without precips far as
the acid, so as to make the solution go as the acid, so as to make the solution go as far as
possible. Each apple should be enveloped in at
least peast three or four folds of the salicylated paper
and every possible precaution should be taken to and every possible precaution should
prevent bruising when loading into the casks or prevent bruising when loading into the cask
cases. Well-packed apples shonld not move at all during the voyage, and the shaking of a railwa
train should have little effect upon them. Never train should have little effect upon them. Never
theless, a certain amount of confusion is inevitable, theless, a certain amount of contusion is ine sitablicy
and to avoid the nlterior results of this the salich and to avoid the nlterior rese.
lated paper is indispensable.
As to the cost, it would be a mere trifle when we consider the result gained and the splendia conditio
market.

## Stork.

## Feeding Horses

Extracts from a lecture delivered before an Eng
fish farmers' clob by Mr. J. Storey, V. S.:-In re gard to food of all animals, the horse, in comparitherefore of the greatest importance that his food should contain as much nutriment as possible in the smallest bulk, more especially when ander
going hard work. Hay and oats have this qualifi cation to a greater degree than any other of the feeding stuffs in general use, and that they should
form the staple food has been proved by long experience. Braised oats are very suitable for old horses, and those that bolt their corn; but, be yond this, they have nothing specially to recom-
mend them. The average quantity of oats requied to keep a horse undergoing hard work in good condition is about twenty pounds per day. O course, some horses wi ear thar fourteen pounds
be induced to consume more D induced to consume more than fourteen pounds, of the fast that the more they can get their
harses to eat the more work they will do. But horses to eat the more work they will to, but
the result of over-working is the premature death
of many valuable animals. Indian corn may be of many valuable animals. Indian corn may be
fed if it is cheap, but must only be used with an fed if it is cheap, but must only be used with an
equal proportion of bran. Mr. Storey condemns the ecqual proportion of bran. Mr. Storey condemns the
use of chopped hay, and says that the principal argument in its favor is that the bad hay is eaten
along with the good. A horse is better off without along with the good. A horse is better off without
bad hay than with it. All kinds of straw are inferior to hay, oats being the only variety that should be used; it does well when horses are idle,
as they are not so liable to get into too high condias they are not so lable tar
tion on it. Carrots, turnips and potatoes require to be fed with discretion; indeed, Mr. Storeve is in. clined to condemn the use of potatoes altogether
In cooked food, the lecturer said, the great objec In cook is, that it fattens without giving strength and firmness to the muscles. It is also apt to be bolted without proper mastication, which is a common

cause of colic and indigestion. For a horse recovering from any debilitating disease, or for one | coming off a long journey, it is of great benefit if |
| :--- |
| civen judiciously. To make a regular practice of | fiven feeding with it every day, however, is unnatural, and, I believe, highly injurious. It it a common practice to give a feed of it every Saturday nigh

for the purpose of keeping the bowels in order. Three-fourths of a pailful of mashed bran would serve the purpose better, without the risk of de junct in horse feeding, and should be given reguJarly once a week. It acts mechanically on the lining membrane of the stomach, increases the already stated, the stomach, or receptacle for solid food, is very small; the erccum, or reeeptacle for water, is quite the opposite. the is paif ancommon at a time. It is, therefore, probable that he does not require it often. Three times a day is suffief ent, provided the horse is allowed as much as het
will drink. In cases where he is excessively hot or exhausted, or where he has been kept without water for an undue length of time, it should
civen in smaller quantities and more frequently, It is a great and common error to allow horses water after being fed. In its paseage through the stomach, the water is which ought never to reach of the inntigest, and will probably cause colic or in-
the intinest
digestion. (irooming or cleanliness of the skin is digestion. (irooming or cleanliness of the skin is
not a mere matter of glosey of taring coat; it is not a mere matter of glosey or staring catb, mals.
essential to the health of domesticated animate
When it is borne in nind that the skin is one of When it is borne in mind that the skin is one on
the principal organs by which refuse material is thrown off from the body, the necessity of keepint
the pores or little drains olear will be apparent. When they become silted up, the lungs and kid reys are overtaskea, and he legs is the cause of
these organs. Washing the these organs. Washing the lege iecis circulation,
much harm to all horses. It checis and causes greater evils than
which it is intended to remove.
In selecting an animal for breeding or fattening,
obtain one having a large chest-the part containing the one having a large chest-the part contain heart and the larger blood vessels,
int
all of which have an important function to perform in the prosess of nutrition. It is well-known among cattle men that animals with small chestb surceptible to the influence of exciting causes of
disease. disease.

## Oxford Downs.

The following description of these sheep was presented in a paper read at the Central Farmer's Club (Eng.) :-
"The Oxfordshire Downs were, for some years. of breeders in 1858 it was determined to give then a definite name. Hence their new title, the pro priety of which is demurred at by some ; for thei only simularity to a Down is in their color. Their ze and lieece--important qualities, which hav rs of this breed-partake more of the long wool The Oxfordshire Downs were originally produce by crossing a Hampshire, and, in some instances, Southown ewe-most commonly the former,
or it gave increased size-with a Cotswold ram, or it gave increased size-with a
and then putting the crosses together.
"Sy "By constant attention and weeding a most suc esssul result has been accomplished, producing
kind of sheep that possess, with uniformity of
haracter and hardiness of constitution, hharater and hardinesss of conntitution, large
crames, good tleeces antitude to fatten, and mut rames, good Heeces, aptitude to fatten, and mut ne of superior quality. It is at ant twenty-seve
years since this breed was firat established in 0 ordshire. The first Oxford ahire Down ram ex hibited at the 'Royal' shows was shown at Wind-
sor in 1851 by the late Mr. Wohn Gillett, of Brize Norton, who was a very succopspful breeder of them,
but as no separate claes was assigned to them the but as no separate claes was assigned to them they
seldom competed until the Warwiok show, where fore were thirty-seven entries, thatis bidding fair or a very strong competition whenever the son place them up
They have the last few years spread most rapidy large number of rams are anntailly disposed of not only by private contract, put by auction at the into Hampshire and Shropshife. In this connection it may be useful to append English Agricultural Gazette.

1. The dead weight of an average lot of lambs
at 3 months would be from 32 to 40 tt ;at months, from 48 to 56 lb ; at 9 months, 64 to ib; at 12 months, from 80 to 96.1 lb .
80 to 104 lb ; of wethers, from 88 to 112 lb ; ol rams, from 150 to 2001
2. The weight of aged (full mouthed) ewes
from 80 to 100 lb ; of 2 and 3 - shear ramis in work ing order, from 160 to 200 lb ,
3. Oxfordshire
to the butcher, shorn, at from 12 to 15 months old, weighing from 80 to 112 lb ; some even weighing 5 . The ewes prodube 1 abont 88 hb . months old ; some few breeders put them to the ram as tegs,many at 9 or 10 months old. The $O x$ -
fordahire Downs are very prolific and excellent nothers.
a high price in the is Lory sulerior and commands markets ; there is a good deal of lean meat as compared with the fat ; and it compares and 7. The weight of Ilece 12 months arowth
ewes is from 7 to S 1 b ; of rams, at 1,5 to 18 months old, from 10 to 15 lh ; of
months old, from S to l 4 lb .
Cuphetive Valle of Beione, Herefon, annual fair held at Rarnet, Eingland, each class of stock hal separate fields assigned for exhibition.
Prices were as follows: stecrs, $t 11$ to $\mathfrak{\text { t }} 14$ per bead; and ditto, supply, and made $£ 1$ to refords were in horns, larg steers, $\notin 18$; and ditto, in condition, $£ 20$ to $£ 24 ;$
heifers, $£ 1+$ to $£ 16$. eifers, $\mathrm{t} 1+$ to $\mathfrak{f 1 6} 6$.
A Manm, Ratuos fur Conn. Mr. Henry stew. art says that after feeding cows for years, and
making a large number of tests for different kinds mak ing a arge number of tests or tied down to a
of feeding substances, he has setle
mixture of corn, oats, and wheat-bran ground to. gether--notsmerely mixed-in equal parts by
weight, as the best and most profitable food for cows, either for milk or butter, and on ten pounds per lay as the ration that can be most econoni

Can Farmers Afford to Improve
Throughout the great and growing agricultaral rarious reasons, most of which are insufficien various reasons, most of which are insuffient
have made little or no improvement in the grad of their cattle. Occasionally one will we heard to argue that it doesn't pay, but this class is rapidyly
disappearing. A great majurity admit that the improved breeds mature earlier, take on flesh
quicker, and convert grain and grass into beef or qucker, and convert grain and grase into beef or
milk more economically than the common or native stock, but put in the plea of "can't afford to
raise fancy stock." That is the delugion which prevents thousands of farmers in moderate circumtances from having anything to do with blooded
cattle. We speak of cattle in particular, because, as a rule, this is the last class of stook which the
ordinary farmer commences to improve. It doesn't ordinary farmer commences to improve. It doesn't
require a block of land, nor a big bank account, to make a beginning. You need not go to England,
nor even to a sister provinee to get the "bblood" nor even ta a sister provinoe to get the ers of Short-horns, Herefords, Jerseys, otc., are
scattered all through the country, and will supply, at reasonable cost, a young bull or a few cowte or whatever may be desirea. A bonght all the way frome $\$ 500$ upwards, and, bred to native cows, will, wive hall-plooded high figures, when the "scrubs" are not wanted at
any price. If the farmer says his hasn't $\$ 50$ to pare, let him join his neighbor, and own the ani-
mal in common. From this point of view the "can'-afford-it", plea disappears, Tor, if necessary,
a pool of of $\$$ each can be formed. In Just that way
the breeders of Madizon, Clinton, and other counties in Ohio, in early days, formed their associations for importing Shorthorns from England, nd the great rest ancon of tod point the way Live-Stock Journal, Chicago.

## Inoculation a Prevemtiv,

From a oommunication to an English paper we "Inoculating non-diseased, catto with virus taken from a diseased beast has long boen practic.
ed in Australia with the very boest pesulte, as a preventive to the spread of plearo pneumonia. When perd of cattle, usually only one or two areanactede of the outset, and it is some time be. Ore othert become diseased, but when onoe the dipaiae has thioroughly established itself, cattle
take ill dany nd die rapidly; such has been my experience of thit complaint in New South Wales.
When a beast
fit observed to beoome siok; this, to an experienced eye, is easily detected by the fol. The animal remains away from the rest of the herd and grazes but slightly or tot at all, thongh there
may he plenty of pasture all around. 3rd. The
animal anayimil has itts neck, pasturstretchod and extronded to-
wards the ground." The writer having described wards the ground." The writer having deacribed
the method of the inoculation, \&ays:- "After in. oculation the cattle will be more or lems affeoted, lays, but a a greally within ten refays theod for a fow entirely fecovered, and are safe against any oon-
lagion.:

## Hampshire Downs

(Great improvements are reported in thin breed
of shee within the last decade. The English of sheep within the last decade. The English
Agricultural Gazete, , peaking of the Royal Agricultural Society's Show, sayse the Hampehire breed
is yearly gaining ground, and will, we are conis yearly gaining ground, and will, We are con-
vinced, beeome more highly appreciated. They are in the hands of a very business like class of
men, who keep them for provit, aud bécause they men, who keep them for prosit, aud bêcause they
believe no other class of sheop will pay so well for
 quicker to maturity, and no race is botter calcuduce strong, half-breed lambs or yearlings. The Hampshire combines the quality of the Southdown With the size of the slarophire, whiob, indeell down in the London market as regards price per pound.
Le Courier de Canada claims that the beet-root sugar industry will enable the farners to fatten
atock for export in the winter. Three tons of beetroot pulp are equal for fattening purposes to a ton of hay.


Notrior ro CorrkspokDastr.-1. Please write on one side of the paper only. 2. Give full name, Post- Office and Prov-
i.ce, not necessarily for publication, but as guarantee of good i.nee, not necessarily for publication, but as guarantee of good

aith and to enable us to answer by mail when, for any reason | aith and to enable ust answer |
| :--- |
| that course seems desirable. $\quad$. Do not expect anonymous | that course geems desirabiced. 4. Mark letters "Printers'

comnuuniations to be notice.
Manuseript," leave open, and postage will be only 1c. per Manuscript," leave open, and postage will be only le. per
tounce. We do not hold ourselves responsible for the views $\frac{1}{2}$ ounce. We do no
of correspondents.

A Substitute for the Clover Crop. Sir, - Not from choice, nor becanse anything we may substitute will fully take the place of clover, but
as the clover crop is of late years subject to so many casualties, it is quite necessary, and it is also a mark of good husbandry, when one finds
that his clover seeding has failed, to till the ground that has clover seeding has railed, to ath, and sow to again as soon as possible a a good clean crop to plow
something that will grow a
under, and, by so doing, even if it is not as good somer, and, by so doing, even if it is not as good
under the land as clover would have been, still it is
for for the land as clover would have been, sinds lis
much better than to let such stubble ground mache, or only growing foul and noxious weed, to
the detriment of the land and to the disadvantage of the following crope. I have for a few years past practiced about as recommended in the last in late"), and if I find the seeding has failed in the stubble lots, or if have any unoccupied bans after the harvesting of early corn, potatoes, bea,
or flax, I will, with the plow or cultivator, or
保 gang plow, or the wheel drag, put to some orop for
tilth for a seed bed, and sow to somer plowing under as green manuring for the land. I
find that the tilling required for putting in such a crop, and the crop itself growing there in place of
a foul growth, which would naturally have been a foul growth, which would naturally have been
there instead, keeps the land cleaner and in better there instead, keeps the land cleaner and in oetider-
tilth, and when plowed under will add consider
able fertility to the soil. For this purpose I use able frtility to the soil. For this purpose I use
buckwheat or oats where 1 intend to plow them buckwheat or oats where I intend to plow them
under in the fall, but if intended for the next year's fallow, or planting ground, I use rye, for it
will grow in the spring as large as can be plowed under in season for corn on other planting grounds, and growing so much quicker than clovers often
gives it quite the advantage over that for such gives it quite the advantage over that for such
purposes. At this date, ang. 30, I have buckpurposes. At theat sowed after the harverting; the first field a
heay crop well in blossom, and standing two feet heavy crop well in blossom, and standing two feet
high; the next field was sowed to oats, and is now high; the next field was sowed to oats, and is now
green and nice; the next is to rye after early corn
and potatoes and the fourth lot ( 25 acres) is sowed and potatoes, and the fourth lot ( 25 acres) is sowed to rye to plow under for next year's planting
ground. I believe that as with "idle hands," so ground. I believe that as with "1de hands, so
with idle lands, it is a great source of mischief to let them lie idle, and if so left it is much harder
to bring them to good tilth with the following crop to bring them to good tilth with the following crop
than if they had in the meantime instead grown some such sweet clean crop to helpe enrich the land and keep it in good friable condition.
H. Ives, Batavia, N. Y.

Sir, - I have a fine large crab-apple tree, and for
the last three years its apples have been blighted the last three years its apples have been blighted
(or scabbed as usually ealled), and stunted in growth; each year it is getting worse. Otherwise
the tree looks well. Any information you can the tree looks well. Any information you can
give would greatly oblige, A B.. Port Hope, Ont. give would greatly oblige, A B. Port Hope, Ont.
[It is probable that this tree is on a soil not well drained. This should be seen to and remedied.
Then loosen the soil well all around the thee so as Then loosen the soil well all around the tree so as
to give air to the roots and promote healthy grow th. to give air to the roots and promote healthy growth.
The trouble you refer to is an indication of unhealthiness in the tree.]
SIR,-In a former communication on Prickley
Comfrey, for last ADrocate, you made inches of my feet. I said plants were you made incheses of high, and
med
measuring 7 to 9 feet in circumference. I measured measuring 7 to 9 feet in circumference. I measured a plant or hill of the prickley comfrey since ncy
foumer letter, measuring 15 feet in circumference. it, and was from a root $\frac{1}{2}$ inch in length, planted
late in May. For feeding pigs alone I consider it late in May. For feeding pigs alone I consider it
worthy of a trial. I have hills cut sixwweeks since which will nuw measure 10 feet in circumference,
A. C., Newburgh, Ont.

## Concrete Buildings.

Sir,-Would a concrete wall be suitable for a SIR,-Would a concrete wall be surable? How barn foundation? Would it do for a cellar wall? Would it do for the walls of a house instead of brick? And in what proportions should the sand, lime and grave ${ }^{1}$
W.M., Woodville, Ont.
[Concrete would be suitable for the foundation [Concrete would be suitable for the ou a house
of a barn, or for a cellar. The walls of a
may be built of concrete instead of brick, and will may be built of concrete instead of brick, and will
be found equally durable if properly done. Concrete is also the cheaper material. The metho of building concrete walls is so explicitly laid down
by a writer in the for your guidance
The cheapest and most durable farm buildings may be constructed of concrete. ture of cement made of lime and mortar, or ture of emade of hydraulic or water lime, commonly called cement, and sand, with gravel or broken stone. The stone or gravel, or both, may be fine
or coarse, but the coarser it is the better and more solid the work will be. The manner of mixing the material is such that the gravel or stone is merely coated with the cement, and the spaces a strong adhesive solid mass. The proportions of the materials used are as follows : one part of lime
(dry), two parts of coarse sharp sand, and three to dry), two parts of coarse sharp sand, and three to
five parts of gravel or stone. If hydranlic cement is used, half the proportion of lime used will be
gufficient, as this substance is much stronger than sufficient, as this substance is shouger than
The lime is slaked and mixed with sand in the usual manner to form a stiff mortar. The stone or gravel is heaped on to a mixing board and tho
coughly wetted. A quantity of the mortar is oughly weteded. Ane wet gravel is thrown on to it, and both are well mixed with shovels, water being added to make the concrete plastic. If hydraumixed in a dry state, as the mortar sets very rapidy. A small portion of this mixture is wetted an Worked up to a thin paste, and the right propor tion of gravel, prevouly incorporated and is put ne the molds at once.
The walls are built up in molds made of plank or beards, held in place by means of posts or scant Thgs, pors and window frames are fitted in befor the concrete is laid. The walls should be at leas 16 or 18 inches thick for a two-story house, up to
he first row of beams; the upper part may be 12 the first row of beams; the upper part may be 12
or 14 inchese. The beams are built into the wall, and the ends should rest upon a strip of plank $2 \times 6$ to distribute the weight on the wall. In placing
the coacrete, stone may be worked in at the corners, and anywhere else to fill up and make the work solid; but stone that is added in this way
should be dipped in water before it is used. When should be dipped in hand and gravel or small stone no large stone is at hand and gravel or small shis is
is used, the corners should be bevelled. Thners of done by nailing six-inch strips in the corners of
the frames to close up the angles. As the concrete the frames to close up the angles. As the concrete is made moist by this procedure, some wet sand and stone may be added and worked in by further
ramming. But the ramming should not be so vioramming. But the ramming shoult not be so vio-
lent as to disturb the position of the frame boards. The frame may be made of the pieces used for the rafters and the boards for roofing, as these are in no way injured by being saturated with lime ; on
the contrary they are improved and made mere durable. When one layer of 18 or 34 inches is made around the building, another is begun at the
starting place and carried on as at first ; he boards of the rrame are raised
as the concrete within them is hard and solid. Each corner should be made at one operation, so that the work may be solid and whide plastering are made in the walls as they are built by insert ing blocks of the right size and raising them as the work rises.]

Sir,-In a former number of your valuable jour nal you said there were good fields for emigratio
in Ontario. I have been thinking of trying $m$ fortune in some part of the unoccupied districts o the Province. What do you think of Muskoka
as a farming country Is it better for tillage, or
for stock-raising or dairying? A Youva FARMER. [See our article on Muskoka in this issue.] Sir, -I want to get the very best receipt I I can
J. W. B. ["" For 100 lbs of meat take 7 lbs . of good salt,
$2 \frac{1}{2} \mathrm{lbs}$ of brown sugar (ot 1 quart of molasses), 2 oz, of saltpotre, 1 oz of ozyenne pepper, and 2 oz. of cloves. Two ounces of black pepper may also be used, if it is not distastefful to those who are to eat the hams. Pepper is used merely to prevent
attacks of flies. $\quad$ Boil all the ingredients in sufficient water to oover the meat when closely packed cient water to oover the meat whon closely packed
in the eask. Skim and cool before pouring over
the meat. The same ingredients can be sued for the moat. The same ingredients can be used for rubbing the hams, if this mode is preferred to a
pickle. For rabbing, however, it is better to add pickle. For rabbing, however, it is better to add
another pound of salt and half. a pound of sugar to ane above ingredients. This pickle is equally good
the for hams, shoulders, bacon, corned beef and dried
beef. When corning beef, the meat should be beef. When corning beef, the meat should be
well rubbed in asalt and packed colosely in a cask
two days before it is pickled. This extracts the two days before it is pickled. This extracts the
blood, and the meat must be taken out and washed before packing for final pickling." A writer in an exchange, who has used the above receipt for over
30 years, says he is convinced it has no superior.]

Sir,-You will very much oblige by answering,
hrough your very valuable journal, the following through your very valuable journal, the following pple trees, plum or peach trees to grow onion profitable kinds of onions to grow, and how ough he ground to be prepared for them! 3. At wha ge ought Baldwin apple trees to bear say one bas
rel of fruit, with good soil and oultivation? 4. How many onions ought to be raised on an acre o round, with first-class peraration and oultiva
tion? 5 . Can 1 grow them where turnips were raised this year? By answering the abov guestions you will greatly oblige,
A Constant Reader, ing at about eight years old if standards, earlier if warfs. The me they will bear a large quantity pluns eight years old that have been bearing heavily for two years.
rop between fruit trees, as one crop is or sow an the ground at a time. The growing of a crop o nions, however, wouti not be injurious to young pple tres. Would serve the growth of the trees but the trees would not serve the onion crop. Onions grown from seed are white, dark rod or yellow. The white are cropers, the yellow, are
dark red are the largest crope
the best keepers. The soil should be well tilled and earriched with rotted manure, and rolled or 12 inches apart, about one pound of seed to the rood. The spaces between the rows are to be cultivated with the scuffling hoe frequently to prevent
the growing of weeds and to keep the soil fresh the growing of friable to attract and retain the moisture, with its accompanyyng ammonia, from the atmosphere, in Augase left on the taken up with the digging-fork and then put on shelves for keeping, or in barrels, in an apartment dry but not too warm. The produce varies greatiy, according to the soil, and
favorable season, and other circumstances. Eight hundred bushels have in some instances been grown to the acre, and some
fourth that quantity.].

SIR, -Would you inform me
kind of grape for latitude $420^{\circ}$ longitude $80{ }^{\circ}$; also the best work on grape culture, and price.
W.B.N., Angus, Ont. [In the culture of grapes in the locality spoken of much would depend on the proximity of large
bodies of water and the prevalence of spring bodies of water and the preazalence of spring
and early autumn frosts. Of all the very early grapes in the market, Moore's Early is the best. It resembles the Concord very closely, and is two
The Champion is also an early va weeks earlier. The Champ.ion is also an earls
riety, but of poor quality. If the season is long enough to ripen the usual standard sorts, 1 , lowing would be a good selection:--Concord, Dela ware, Burnet, Canada, Rogers' ${ }^{\text {4, Rogers' }}$ ' 15 , Clin-
ton, Martha, and Creveling.
Best work is Foller on, Martha, and Creveling. Best work is Faller
Grape Culturist, which will be mailed post-paid from this office for \$1.50.]

## Farming in Prince Edward Island.

SIR, - You will, I have no doubt, make space in your valuable paper for a few lines on the agricul-
ture of Prince Edward Island. Crops in the Is and have been very good. The wheat crop is ex
cellent, and has been harvested in fine condition the weather having been very favorable. Farmin has improved very much of late years; composting barn mannure, marrsh and swamp mud, is extensive
ly entered into. Several of our farmers have put up this season from 500 to 1,000 loads. It is found to be excellent for potatoes. Then we have four lime kilns at the wharf kept burning most of the
time. They supply the demand excepting the time. They supply the demand excepting the we oonsider it useless to sow wheat or grass seed was the first to introduce the composting of mars was the first to introduce the composting of marss fertilizer known during his farming career.
A. B., Cape Traverse, P. E. I.

Sir,-I appreciate the Farmer's Advocatr, and would not be without it, though money is very
searce down here. The National Policy is running us off the track, however it may benefit you in Ontario. Prospects are good in P.E. I., and an ex collent crop of hay has been harvested in fair con
dition. The wheat is tnjured somewhat with dition. The wheat is tnjured somewhat with
weevil, still with fine weather a fair crop will be weevil, still with ine weather a fair crop will bate promise abundantly In some sections farmers are turning their atten
tion to stock raising. On account of the uncertion to stock raising. On account of the uncer-
tainty of the markets abroad for our potatoes, farmers are turning their attention to starch fac tories. At Eldon, Belfast, Shedd, Moore \& Co have a factory and last winter used up a large qua
tity of tubers; another factory is also in course o erection at St. Peter's Bay, farmers in that section having pledged themselves to supply them.
A. A. M., Montague Bridge, P. E. I.

Sik, -If not too much trouble I would be pleas ed to get information on the following question keeping winter apples more profitable for general
culture than the summer and fall varieties? 2. Name six best late keepers in order of preferenc or market growing. 3. Name a list of pears, with ripe fruit from the earliest summer up to the tatest ripening winter pears. 4. Name six best varietich
of plums. 5 . Name four best varieties each of black, red and white grapes for out-door culture 6. Name best kinds of red and black raspberries each to give a succession. 7. Name best kind
black, red and white currants. 8. Name two earli est, two medium and two latest ripening kinds of strawberries. 9. Are blackberries and gooseber ries profitable, and if so, what kinds? 10. Wha
is the best work on large and small fruits; and who is the author! I fear I am asking too much ; am farmar's son and intend to grow fruit for market Advice from practical experience will save costl.
experiments. A. S. B., Demorestville, Ont.
[1. Yes, because they can be shipped to foreig markets, where remunerative prices can always
realized, while summer and fall varieties have to depend on the local demand, which the supply al ways
ficed. 2. Rhode Island Greening, Green Newton Pippin, Northern Spy, Roxburgh Russet, Swaar and Baldwin, to which we would like to supple ment Swazie Pomme Grise, American Gold Russe
and Mann Apple. 3. Doyenne d'Ete, Beune Gif ard, Manning's Elizabeth, Osband Summer, Clapp's Favorite, Bartlett, Flemish Beauty, Shel-
don, Duchess d'Augonleme, Beurred, Aryon, Josephine de Malines. 4. Lombar,' Yellow Egg,
Washington', Imperial Gage, Pond's Seedling and Coe's Golden Drab. 5. Rog No. 4, 36, Concord,
Core's Early; Rog No. 15 , Brighton, Delaware
Moore' Moore's Early; Rog No. 15, Brighton, Delaware;
Rog. No. 53, Allen's Hybrid, Lady, Niagara, Lady
Washington (Rickett's). 6. Franconia, Mammoth Cluster. 7. Black aptes, Lee's Black, London Red Cherry, Red Victoria, White Grape. 8. Down
er's Prolific, Mianor, Wilson's Albany, Calcheney Triomph de Gand, Kentucky. 9. They are; the best kind of blackberry is Kitatinning; of goose proved. We recommend io your soll is clay try some English varieties, such as White Smith, Sulphur, Crown Bob, Warrington Red, \&c. 10. The best, most practical work on fruit and fruit trees
garden is $P$. Barry's "Fruit Garden."]

## The Currant Borer.

SIR, - While frait generally is an excellent crop
his see nis season, currants were an exception. Red cur
rants especially were a failure. The olossoms sen out were so feeble that they fell off prematurel and there were hardly any berries, and what there Black currants were a light crop, but this wa ansed by a May frost. As slight as it -was it ipped many of the blossoms that were then about OCATE what affected our red currants and what
ar., Stratf
[Your currant bushes have, we judge from you letter, been infested by the currant borer, an incardens. It is closely allied to the peach tree borer. It deposits eggs about June or July, selectoung, when come to life, penetrates to the centr f the shoot, living on its substance, and remaining here till early the following spring, when it come in flower. We have had some ourrant bushes so White currants have been even more injured by the borers than the red, while black currants have been uninjured by them. There is no remedy for
them at this season. The bushes should be ex amined early in the year. Wherever there are
trong, vigorous shoots you may not examine'them strong, vigorous shoots you may not examine 'them,
tor a young branch cannot be strong and have a or a young branch cannot be strong and have The mark where the egg has been laid will be
easily seen, like a little black dot on the brown ark. On splitting this shoot up the centre yo by the insect, which you will find in the upper by the
end.]
Sir,-1 have been advised to plant a Honey Locust Hedge in front of my place along the road native of this country and is hardier. Have you it hardy enough to live in Canada, and would it make a strong, close hedge that would prevent
the trespassing of cattle? Rails and posts are not so easy procured now as the
require fences of some kind.
[The Honey Locust has not been much planted In this part of the country; it is a native of the United States. We have had some experience with growing in a very exposed situation with a northern aspect, and our winters do not affect it in the least. It is a rapid grower. Whether it wil It has been planted for hedges in the States. In parts of Illinois it was tried some years ago with indifferent success. After a few years the plant
died out after growing well for a time. The canse of this failure grewial to have been want of care. The plants were not winter killed, but the strong est ones dwarfed and destroyed the others. In
Wisconsin, on the other hand, the hedge plantiog has succeeded well; there it was taken proper care
f. In the milder climate of Illinois the hedge of. In the milder climate of Illinois the hedge
was rendered useless by neglect. Its stroug stem was rendered useless by neglect.
and branches and lance-like thorns are enough to no break through it. To make a close hedge, however, the pruning knife must be unsparingly but
udiciously nsed, otherwise the branches will grow long and straggling and will not make what is a
cose hedge. Of the hardiness of the Canadian horn there can be no doubt, but it is of slow nd the seed is easily procured, or the plants may e procured from nurserymen. There is no bette

My Experience in Mucheng Strawbeupe -Early in the fall, having freed the land from trawberries. The of oats grew rank in the fertile altivated soil till illed yy the frost, and then fel hem from being winter-killed. They grew early in spring, the frost-killed foliage of the oats serv-
ing as a good fertilizer. The warmth of the soil
The lants, while protecting them from May frosts. The cultivation when sowing the oats is also a
means of killing young weeds that are found so means of killing young weeds that are found so
annoying to strawberry growers.
M. C.

The Model Farm Stock
SIR,-In your last issue, Sarawak, in a strange,
rambling letter, which was very exaggerated many points, attacked my criticism on the stock
at the position I may say, when I go to the Model Farm position I may say, when I go to the Model Farm
I do so to inspect it and gain information, if possible, and not to eat good dinners at Government expense, and waste time in the dining hall which
should be spent in the cattle pens. The position I took in my maintain. Where credit was due them I gave it, and where they deserved criticism they got it, though in a very mild form. I have frequently
seen and heard very severe criticisms on the above mentioned stock from experienced and successful farmers, and one now before me, written by a
Granger, who visited the farm last summer, to Granger, who visited the farm last summer, to the
Bruce Herald, speaks very severely of it without giving it a redeeming point. Not that. I am govrned by the opinions of others, but to show you that others coincide with me. In fact the Princi-
pal does not olaim that many of the animals are first-class.
At the recent Toronto show it is probable th $y$ some good ones among them, many were inferir $r$ to
those belonging to private breeders, who do get a large Government grant to help them alou . remarks which were made concerning animals at very fit. We in Ontario all know the Globe 11 the oredit possible. In speaking of the give it bull, Gladiolus, after a few descriptive remarks, class animal, being hollow behind the shoulders, speaking of the Devon bull wid behind." Again, ported as a calf, and has turned out small for the breed." This in the Devon, especially a stock bull, already too small to be appreciated in this boondrys.
The Hereford bull the Globe also characterizes as der size the Globe also characterizes as so found with the Berkshire boar. Of the Cts. ather too they ," make the remark, "he appears are not very flattering. If the Globe had said the Cotswold ram was not fit to use in a first-class
flock it would have been correct, and they might have used the same language concerning the Durom cows. Regarding the sale of the ferstclass herd cows. Regarding the ase of the Hereford calf
spoken of in sarawak's letter it certainly was a good price. I did not say there were no good animany? And we are really inclined to think the College made a double mistake in selling this one: st. To establish a good herd or flock the best sold, and yourself ept in the breeding herd, not nimal was to be sold, should it not have bees ept until their annual auction sale and allowed Cousin Jonathan was willing to pay more than Canadians, then let him have it; but by all means the Canadians have a chance of owning what

## Mules

Sir,-I noticed a communication in the Septemnation about mules. I journal, asking for inforthe spring of 1877. Some of his mules are now mals, standing 15 to 16 hands high, and are highly prized by the farmers in this section of conntry, so ship have offered prizes to be given at the Amelias. burg central fair, to be held on the 9 Oth October, for the best Jack, and three prizes for mules in each of the following classes:- Sucking, yearling,
two year old and three year old mules, also for the best span of mules. For general farm purposes
they are considered much hardier and thrive wel on food unsuitable for laboring horses. Disease is ed my Jack they wengst them. When 1 purchasand I understand they are worth more now.
C., Consecon, Ont.

The price of Spanish Jacks will be found to vary
from $\$ 2000$ upward, according to age and quality of nimal, and the locality in which they are bought

## THE FARMFRS ADVOCATH.

## Devonshire Notes.

Devonshire, England, Sept. 15.-HappiExeter, Devonshire, Eaglanove more favorabbe
ly, this year things have proved mond now that the
for the English agriculturist, and noter harvest is over-in Devonshire and other parts of the sonth, at least- the reporr direction the hay
most encouraging. In every din crop is said to have been in splendid condition,
although the shear was to a preat extent light. althongh the shear was to a great exte be desir-
The guality, however, was all that could bat ed, and for the most part it was well saved. Exeter show of aiter-gre reports as to the yield of wheat,
is very good. The res conticting,
are, as is invariably the case, rather con are, as is invariably e, the crop has been an aver
but, taken as a whole
age one as regards quantity, and an exceptionally age one as regards quantity, and Making a rough
good one in point of quality. Maind
estimate, the yield has been about thirty bushels per acre, but probably this is giving a full average There is no doubt that in many parts, although the kerning was good, the plant was thin, and on more than fifteen bushels. In other and mor movered spots the yield was from forty to forty-
five bushels. Around Sidmouth, for instance, wheat came out at the rate of forty bushels per acre, and in the neighbornood of Silverton the yield has in several cases reached forty-ive barley and oats have also proved very heavy els. Barley and oats have also proved very heace. and good crops; the former hart, the harvest as a whole, has been a remarkably tine one in Devonshire, and the farmers generally are in the best
spirits. New wheat is quoted on the Exeter Con spirits. New wheat is quoted on the
Exchange at from 5s. 6d. to 6s. per bushel.
The root crop, especially turnips and mangolds,
hows an abundant yield; and as for potatoes, hows an abundant yield; and as for potatoes, they appear this ear thantity and size greatly excul. Their quality, quar's crop; and 1 am glad to report that very little disease has made its appearance. The
"Scotch Chamions," which have been only lately "Scotch Champions," which have been only lately
introduced in this neighborhood, give a most luxuriant burden.
Of course, Devonshire being the land of cider the greatest concern is at that fails it is only natural that grumblers should be heard in the county I am sorry to report, therefore, that notwithstand ing the fine season, the apple crop this year is a poor one as regar an ruit is, as a rule, most excellent. This is
of the frus doubtless in some measure owing to the fact that
the adverse season last year tried the trees very the adverse season last yewever, they are said to severely. At present, however,
be looking healthy and strong, and anything
ber like a favorable season next year a good crop may
be confidently anticipated. As a rule this year be confidently anticipated. As at hale a one, and the crop in bulk is said Exeter the yield is reported to be not much more than a quarter of the average. same complaints come from other apple growing districts. Owing to this scarcity many lots of apples, which in an ordinarily good season would have been usel ${ }^{\text {bought up by speculators and sent off to the Lon- }}$ bought up by specuators arkets. Good fruit has made as much as 9s. per bag, and as a matter of
course, when anything like this price can be ob course, when anything her better to sell than to
tained, it pays the farmer ained, itider. The stock of cider, already nearly
make coren exhausted, will not therefore be greatly replenish ed this year. Last season apples were scarce, and
the fruit poor, and consequently the quality of the cider made was not remarkable. What little is cider mhade year should be of first-class (quality, and at the sales which have good prices. Near this city the fruit has fetched gow orchards were sold, and portion of the crop, where the fruit was specially double the value of last year's crop. By the time oouble the value of the first cost of the apples will be increased to such an extent that farmers will probably in many cases
tute for it in general use.
tute for it in general use.
The farmers of this part of England have indeed been favored by Providence this year, for the de lightful sunshine that has prevalied for auspicious for the crops, but for stock also. There is not for the crops,
much fear of the re-appearance of the sheep-rot,
which did so much damage a little while ago. which did so much damage a little while ago.
Several cases of pleuro-pueumonia are reported in
Sifferent parts of the country, but these are not Several casas of pleuro-pneumonia are repor are not
different parts of the country, but these
due to climatio causes, and energetic means are
being employed to stay the spread of this disease.
In regard to pleuro-pneumonia a correspondent In regara to pleurat is considered here a very
writes to a local what
important letter. The writer, who is at present important letter. The writer, who is ar is ares trained profeson a visit to Exeter, is a regularly ora London and
sional man, having diplomas from Lon
New York, and has had the advantage of practical Nional York, and has had the advantage of practioal
experience for many years on a very large cattle experience for many years on a very large
station belonging to his father in Austalia. He tells us that pleuro-pneumonia has been there
fought and vanquished by the practice of inoculating non-diseased. cattle with virus taken from a
diseased beast. He says also that the meat of diseased beast. He says also that the meat
cattle slanghtered in the first stage of lung disease is quite fit for food, althongh of cours.
so good in all respects as other meat. so good in all respects as other mea
I think the people of Devonshire
Io think the people of Devonshire must have a
sort of mania for attaining excellence in gardening sort of mania or attaining excellence in gardenting
operations. Such pictures as one sees in cottage gardens hereabonts I have met with nowhere else
my travels. The man whose taste does not lead in my travels. The man whose taste (and these men seem fow and far between, for almost every garden has its dainty flower patch), ertainly glories in monstrous caundiowers, cal
ages, \&c. One of my most agreeable walks is through the suburbs of Exeter, drinking in the beauty that dwells in these neatly-kept cottag
Devonia. garden.
rnal contains items of great SiR,-As your journal agricultural improvemen in all parts of the Dominion, I send you a sketch
of the Danish settlement (New Denmark), in this of the Dani
Province.
It is about eight years since the first tree was cut in the Danish settlement. The pioneers num bered thirty-ave must have been anything but pleasant; and it is not surprising to learn that for a time the were greatly discouraged. But are eight years ago was unbroken forest are now about three thousand acres of cleared land. Of course there are numer moderate amount of muscle will cause them to disappear. The extent of the settlement may bo learned from the fact that the length of the thirty miles. The crops on every hand lonk promising. Each family raises enough for ito ow houses and suitable barns and other buildings ar and are evidently prospering equal to their expec tation. The population of the settlement is no tation. . Tred souls. Each year since the first com-
five hund
pany arrived there has been an addition of their pany arrived there has countrymen. Sixty-seven have come already this year, and more are expected. Some who leave home with the intention of settling in New Den-
mark, are, on their arrival in America, persuaded mark, are, on their arrival in America, persiade
by Western land agents to
go West.
Mikamichi, N. B.

Sir,- Upon the back and body of one of my and shape, resemble raisins, but in composition they are really horn. The largest two (size eyuals a hen's egg) were torn off by other cattie, and
wounds will not heal and give off an offensive odor. There also grew on her back last winter a large There also grew on her equal a teacup), which by
cancer or wart (the size
times would fumigate the whole stable with its times would fumigate the whole stabhe with it stench. This iarured hint got from the Advocatre. Will you please give me the cause and cure of the Will y
whole
N. S.
[Your cow is troubled with a kind of tumor or cancer warts. It is well to remove as much os the part every second day with a solution of arsenic,
If much smell arises from it then dress twice o f much smell arises from it the diness a week with carbolic acid dited (one part carbolic acid and thirty parts water). In many cases it is constitutional, but in your case
we would not be alle to say without seeing the many ca
we woul
animal. $\mid$
Sir,-As an old subscriber to your publication I have taken the liberty of can vassing, the result
being a new subscriber; and as there seems to be no one in this part to represent your paper, I hope in which I pept the ADrocate as always having done its duty to the farming community at large.
T. K., South Moreh.

## Flavor of Beef

We contend that the quality, and especially the flavor of beef, depend on the food furnished the animals, much more than on the breed. We see that a noted French agricaltions of food, to give proposed, through combinations of food, pigs and poultry. He instances poultry fattened
upon food containing a small admixture of chopped upon food containing a small admixture favor than those chiffles after dressing. This, he says, is with truffles after dressing. truffies eaten by the the
natural, for the favor of the chicken permeates the whole system, which
cannot do when simply placed in the dressed carcannot do when simply placed in the dressed car-
cass. He also instances cases in which hares cass. ine alsonwood field, larks shot in a cabbage
killed in worme
field, and eggs laid by hens which had eaten disfield, and eggs laid by hens which had eaten dis eased silkworms, had such ad nauseo and fieldfares which had fed upon sprigs of juniper had a deli-
whe ous anise-seed in barley and bran, and others with the food slightly flavored with the eessence of thyme. In each case he found the flesh of these animals was much finer than when ed the juniper nary way, but has no distinct taste of the juniper
or anise-seed. And he comes to the conclusion or anise-see.. And hanimals may be fed so as to
that cattle and other ani give different flavors to their flesh, and that thes
flavors may be produced according to the skill of the feeder.
This Frenchman carries the doctrine to the last extreme; but it is by no means certain that facts
may not justify all his assertions. Our points heretofore made lead to the same conclusion. We have all been conversant with many cases of pork tak ing a peculiar flavor foech-nuts, acorns and other mast. The pork in these cases is strong and oily when the pigs ar killed without change of food; but if put in pen and fed for afew weeks upon corn or corn-fed pork nast flavor is gone, ae upon butchers' refuse has a peculiar flavor, and that made apon fish scrap ha a disagreeable taste, and must be finished upon grasshopperse is very disagreeable to the taste, and
must be finished off upon other food. Waterfow fed upo food of all animals permeates the whole system,
and stamps the flesh with whatever quality it possesses to a large degree.
Thise ach go ceary to show that the art of feeding needs Soll
given to it. Skill in combining foods of different qualities enables the feeder to economize every thing grown upon the farm, bith wheat middlings, oest-meal, or other nitrogenous food, etc. And so, likewise, when the animals have been fed and grown upon the most economical plan,
may still further perfect his system by studying the flavoring foods, and testing them in ars practice.
It will probably be found, on careful experiment, that the foods best adapted to flavor the flesh are also those that make the best condimental for
so that while the feeder is studying those lavoring materials which the anis which give the finest flavor
find also those materials to the flesh. This is a field very little exploredone in which experiment may lead to greater pro menting and the experimental farms in agricultu ral col
$[\mathrm{Ex}$.

## There is a movement among Toronto capitalists establish a syndicate with a capital of $\$ 1,000,000$

 r the purpose of engaging largely in the export ttle trade.The Ontario Entomologioal Society held their elected the following officers for the ensuing year President, Mm . Saunders, Bendon ; 'Hope; Sec'y dent, Rev. C. J. S. Bethune,
Treasurer, E. B. Reed, London.
The Electoral Division of Mountain, Manitoba has organized an Agricultural Society, with Robt. Keasor, Esq., Silver Spring, President, and R.
Preston, of Preston, Secy'-Treasurer. The Board also contains 1st and 2nd Vice-Presidents and nll staff of Directors and Auditors. The Socieya


©the fanmily Citrcle.

## A REPORTER'S ROMANCE.












 keeper.




 Walter rrouted some amathoma on the head of the who
temale exp- think we were ill in bad humor that monitit

## Mies Hida Brand,




 concealed in the tolus of a a vell

 "trinak y










 repprert
nilit
condon








 ng the sipp
Now he
 Which ratled on theroot ot he orain, and alammed he door cond toind himealit chafng with n neryout haste quitu un Lice whisting her hoarse warning He wont out on deek and


 thought, and not "Miss Brand," as always hitherto.








 "Hildat" he exclaimed.
"Who io it? Mr. Condon? Oh, 1 am , og glad !








 (To bo conumual.)

## Frankness' and Reserve

It is ourions with what avidity we form impres siono of others, how frequunty, we thapt othher
coldy by reason of hastily formed and arbitrary colaly by reason or hastily formod and arbitrar
opinions originally conoceived ty them ; haw our mperfeot koowledge of partial acquainhacees
causes us often to misunderatand and fail to ap. cansee nu often
precinte them.
Primary opinions formed of others are meldon
 ple always proauce a favorable impressiog; other
 bow courteoualy smile pleasataty dy paik ohedirily
a warmth and glow pervades them whioh oxtend to others, and they throw a tito and vigot int their words and acts that never nails to attreot. They enter warmly into our proidets spoak or top. ics of interest to us, adapt themselvee immediately
to overy subject, of disususion, and render them selves unitormly agreable,
This geniality of manne
This geniality of manner and Baandipg sodider social enjoyment ; it makes the touseboto iver as the balltoom, resond with heouty limightar an enjoyments ; makee happy many shomed add fra
grant with pleasant memories many an graan hour. It cools the heated brow of thooghte, dries up the turbid atream of malanchoyy, wash away the hundredid of daily aggrayations apd fur This spontaniety is found the rich and poor, old and young thoughatfol and otherwise. inf creates the urbanty of the staten.
man, the infuence of the popular oider vity of the diplomat, the inspiration of the author and the courtesy of the trae gentleman. It it th most psitive adornment of Comeatio lifo , and the
surest guaranteo of a pleasant home.

 the most infuence in rendering them ever. fetcom and beloved. Could all but estimate Bo yaluable an acquisition, none would difregard, it, and our
daily enjoyments would be greatly aug mented and daily enjoyments
increased thereby.
 Joe get married, if you have a fair show. Don
stand bhirering stick your head under and shiver it outt. Ther ain't any more triok in getting married tharen the
is in nationg is in eating peanuta. Many arman hat stood hhi
ering on the shore until the riven run onto Don
 ed up long ago. Remember Joe, you hain't ta asin
yourself. Do not marry for beenty yourself. Do not marry for beanty excluaively
beauty is like ice, awfully silippery and the dreadfully easy. Don't marty for love neither ; iav is like a cooking stove, good for nothing when the
fuel gives out. But let he mix tura be $t \mathrm{ty}$, becomingly dreased, with abont $t$ wo hundred

 constitution and by-laws, smal wet, a light, step; mixture will keep in any climate and will not
evaporate. ${ }^{\text {Don't marry }}$ for pedigree unies it's


## To Start Perspiration.

 When Rodolphus Young was under examinationthe board that was to decide upon his fitness by the board that was to decide upon his fitness
to receive a diploma as M. D., he chanced to find th receive a aploma as M. D., he chanced be critical mood; and it may be that
the sag ing
they thought him a good subject for a little of their sportive hazing. Among the questions asked was pulse, and dry, parched skin, with tongue also dry, what would you do for your patient?", "I'd get up a perspiration as quickly as possible," was the
answer. "Exactly. And how would you do it ${ }^{\text {? }}$ answer. "Exactly. And how would you do it ?
Rodolphus named a few of the diaphoretios which he considered best adapted to the case. "Yesand suppose they didn't answer ?" The student
mentioned a few more medicines which might be be
useful. "Well," pursued the ehief of the board, "and what if that didn't answer ?", In a rapid
manner Rodolphus spun off the whole list of dia phoretics, stimulating and alterative, adding all the external appliances of heat, friction, water, and so forth, arlowable. And yet the goggle-eyed exami-
ner persisted. He seemed determined to make the nerphyyte "pronounce the fatal words, "I don't
know." "Well, said the chief of the torturers, as calmly and cooolly as though he had been putting a
sensible question, 'sand suppose all that would no answer, would you have any recourse lett?"
"Yes," cried Rodolphus, with a sudden snap of hi jaws; 'ifif none of that would start a perspiration, would bring , the patient up here
amine him. Rodolphus passed.

## Suggestions about Ironing.

Iron the back of the shirt first, then do the sleeves and the neck binding; be very careful no and with a clean cloth wrung out of hot water ru
the bosom well ; if the bosom wrinkles anywhere the bosom well; if the bosom wrikles anywhere
rub them toward the bottom. Iron quickly with a hot iron, but not hot enough to stick and scorchwith a little practice you will soon learn when the
iron is just right; raise the plaits with the blunt edge of a table knite, and iron again. Now take the of a th, wrung out of clean hot water again, and
the cloth
rub the bosom over again. Take the polishing iron rub the boosom over again. Take the polishing iron
and rub that bosom, a small place at a time, until
it "shines" to suit you, and the shine will depend very much upon the strength and perseveranc with which you use that iron. 1t is no chider
play to polish a bosom properly; you must bear
down very hard with the rounded end of the iron and rub until the bosom is quite dry. The iron must not be too hot-a moderately hot iron is the
best. Do the cuffs the same way. When the cuffs are made on the sleeves, do them after ironing the sleeves, and before you touch the bosom.
After ironing the bosom, iron the rest of the front. After ironing the bosom, iron the rest or clean and
Alwass keep your polishing iron very
bright; never let it get very hot; if you do it will be apt to roughen the smooth surface. It is not at or second attempt, but if you persevere in following the directions that I have given, you will suc-
ceed at last. If at the end of three or even six ceed at last. If at the end of three or even six
months you are able to iron and polish your hus-
band's bosoms collars and cuffs as they should be months you are able to iron and polish your hus-
band's bosoms, collars and cuffs as they should be
done you will say that the time spent in learning done, you will say th
has been well spent.
Do not iron cailicoes with very hot irons-it will
turn and fade the colors more than the washing. turn and fade the colors more than the washing. Some ladies always iron calicies on the wrong side,
but will tind they will keep clean longer if ironed on the right side.
Iron lace and embroidery on the wrong side, and
iron until quite dry, or they will not look nice. iron until quite dry, or they will not look nice. damp, on the wrong side, and with only a warm iron, as some colors are apt to turn or fade. To iron flannels, take from the line when not
quite dry, roll up a short (ime, and press with an iron only moderately heated. Pressing does not make the elannell feel so stift, and hard as rubbing
with the iron, and very hot irons turn the fabric with the iron, and very h
yellow,-- [Ohio Farmer.

It takes something more than good agricultural
productions to make a paying agricultural exhibiproductions to make a paying aeticutural The glass hen and royalty have doue much; the hurdle-races
and trials of speed will draw; baby shows and pretty girls h have eclipsed farm, stock. Michigan
State Fair, however, carries off the palm this year. They offer 40 acres of land to the first couple that

## Rules for Visiting.

As a general rule, never invite yourself to stay a near relation. Many persons have a habit of making unexpected appearances; they should re member that intrusions of this kind are sure to be making themselves unwelcome guests. Others in mak off-hand manner announce their intention of paying a visit, thereby causing a considerabest
amount of embarrassment; for though the host may not be averse to the self-invited guest's society, yet the liberty taken may cause great inconveni$\underset{\substack{\text { ence. } \\ B e \\ \text { not }}}{ }$ Be not less particular that you do not take a
stranger, or an uninvited person, with you when you pay a visit-unless, of course, you are special-
ly requested to do so y requested to do so. If it should happen that
you reecive an invitation at a time when you have a friend staying with you, write wh return mail declining the invitation, giving the presence of your
friend as the reason for your doing so. It then then the province of the giver of the invitation to write and oxtend the invitation to your friend also. Then you may accept; bnt do not take the initia.
tive yourself and say you would be glad to come if you could bring So-and-so with you; as your host
yon may be so circumstanced that to say "yes" or "no" would be equally disagreeable.
A considerate visitor will be careful not to keep at which they hasitually retire. Thoughtless persons frequen ly occasion mad venience in this way
In many houses there is a tacit signal that bedwine, soda-water, biscuits, etc. After partaking
of this light refreshment, candlesticks are handed of this light refreshment, candesticks are haideir
round among the ladies, who then retire to their
own apartments. Gentlemen leave the drawing own apartments. Gentlemen leave the drawing
oom at the same time; and for them it is permis rom at the same time; and nor th-m it is permis time before retiring for the night-this of course, is quite optio
of the kost.
When staying at a friend's house, a visitor wn never take a book from the library to his it. Many people place the highest value on their literary possessions. When a book is lent, care
thould be taken that it sustains not the slightes damage, either within or without.
No guest should be continually dependent upon
her host for entertainment, but should throw her self upon her own resources, and endeavor to amuse herself as much as possible, and should remember not always wanted.
From breakfast to luncheon, as a usual thing, visitors should not expect any attention from hos or hostess. Both require some time in order to
make necessary arrangements; many matters may require the supervision of the hostess, while the host avails himself of this period to occupy himsel with his personal concerns. The visitor, too, find reading, etc., in fact, do anything in reason, except look for any attention
this portion of the day

Female Society.-What is it that makes a superior to others who do not? What makes tha woman who is accustomed and at ease $j_{j}$ in the so ciety of men, superior to her sex in general
Solely because they are in the habit of free, grace ful, continued conversations with the other sex Wonen in this way lose their frivolity, thei
faculties awaken, the delicacies and' peculiaritie unfold all their beauty and captivation in th spirit of intellectual rivalry. And the men lose their pedantic, rude, declamatory, or sullen man
ner. The coin of the understanding and the heart changes continually. Their asperties are rubbed off, their better materials polished and brightened, and their richness, like the gold, is wrought into
finer work manship by the fingers of women than it ever could be by those of men. The iron and steel of their characters are hidden, like the
protection and armour of a giant, by studs and protection and armour of a giant, by studs and
knots of good and precious stones, when they are not in actual warfare.

Says a French critic : "I like a girl before she
gets womanigh, and a woman before she gets $\underset{\text { girlish. }}{\text { gets }}$

## Sensible Almest to the Last

 Mr. and Mrs. Tom Mulcahy lived on a farm. putation of being "close." Finally, Mrs. Mulcahy ickened and was abont to die. Finding herselnearly the end, she expressed a desire to put thing $n_{n}$ order kefore that event occurred, and old ${ }^{2}$ Tom "prepared to listen.
"Tom," said Mrs. Mulcahy, "there's Mrs.
Smith, up at the crossing, she owes me $\$ 180$ for butter ; see"ye get it."
"Sinsible to the last, my dear ; sinsible to the
last," said Tom. "I'll get it." "Then there's Mrs. Jo at the creek; ; sh owes m \$1. 50 for chickens.
"Ah ! look,
gets nothing,"
"And Mra Brown, in the village, she owes me $\$ 2.30$ for milk."
"D'ye hear that? Sinsible to the last ; sinsible the last! Go on, my dear.
"And-a
" And,"Mrs.! Roberts, at the toll-gate, I owe "Ah! poor dear! poor dear!" broke in old Tom, hastily; " how her mind does be wandering Sure we've allow
so we have!"

Leap Year's Dufficulties.-He was a nice young man, with cane, high hat and pautent avenue,
boots. He strolled leisurely down Fourt boots. He stron upon a cigarette, and oceasionally twirling the waxed endsi, of his's moustache. He was accosted by a stout $\mathbf{w}$
"Toid she.
"Top of the mornin' to ye, ${ }^{\text {, Mister Charley," }}$ ""Good mornin
"Goung man. Mrs. MoGuinness," said the
"Me darlint boy, bewitching smile upon him.
He dodged?ont of her react The recollection hat it was, leap year rushed upon, him, and he "Madam-really-I can't-I am very sorry if causefyou pain-but my affections have already
mestowed upon another-and madame-I an't-I can't marry you."
She gazed at him in astonishment, and then said,
dignantly, "Who axed ye to marry me? The indignantly, "Who axed ye to marry me? The
idea of the likes of me, a poor lone widdy, wid our children to onpport by washin', axin' ye to marry me ; I was only goin' to ax ye for that
dollar for washin'". Hellar for washin'.
He sighed, gave $\underset{\text { away. }}{\text { He sig }}$
Profortions of the Human Figure. - The proportions of the human figure are six times the
ongth of the feet. Whather the form is slender or plump, the rule holds good. Any deviation from it is a departure from the highest beaty in
proportion. The Greeks made all their statues according to this rule. The face from the highest point of the forehead, where the hair begins, to
the chin, is one-tenth of the statue. The hand,
them the the the from the wrist to the middle forefinger, is the same.
From the top of the chest to the highest point of the forehead is a seventh. If the face, from the
coots of the hair to the chin, is divided into three oots of the hair to the chin, is divided into the first division tells the place whe the eyebrows meet, and the second the place of the
nostrils. The height from the feet to the top of nostrils. The height from the feet to the top o
the head is the distance from the ends of the fingthe head is the distance, from the
ors when the arms are extended.
Mothers, there is another thing for you to do.
Frolic with your children. Leave out that extra Frolic with your children. Leave out that extra
group of tucks from the little skirt, and have a romp in the fields with the boys and girls. Give
up the dessert for dinner some day, and devote up the dessert for dinner some day, and devote
yourself to the sunshine, and be a child again yourself to the sunshine, anout the pies you make,
Your children will forget abo
ad the memory of tucked shirts will last but an and the memory of, tucked shirts will last but an
hour; but the young hearts will never forget that hour; but the young hearts will never forget that
beautiful day when mother left her work and went out in the fields to gather wild flowers with them Years after, the sight of a daisy will bring back
that day; a blue violet will reall mother's eyes that day; a blue violet will recall mother's eyes,
and a bird's song thrilling suddenly from some
leafy bough will awaken sweetest memories of that leafy bough will awaken sweetest memories
bright spot in childhood, - [Zion'm Herald.


My Dear Nieces.-As the autumn days are becoming cold very fast, it makes us think of warmer dress and what shall we get for winter. All wool plaids are to be worn very much this winter for dresses. They are very serviceable and should be made quite plain. A nice style is to put a box plaited flounce on the underskirt, and a polonaise bound round the bottom with the same, with dark
green, blue or whatever best matches your plaid; green, blue or whatever best matches your plaid ; velvet collar and cuffs. All heavy goods are to be wearing a particle of trimming, merely having the kirt shirred around the top next to the waist plain waist and wide belt. But we think this is plain waist and wide belt. But we think this is fashionable costumes of the season unite two varieties of material. The skirt of the costume is in walking length, and comprises a front gore, a gore for each side, and a back breadth. The gores are fitted close to the figure at the top, while the back has a good amount of fallness, and is supplied with way from the tup, to regulate the closeness of the skirt in accordance with the fancy of the wearer Plain material is used in the skirt, and the bottom is trimmed with three rows of narrow knife plaiting, while the front gore is ornamented with row of plaiting which gradually decrease in length toward the top. The drapery is of brocaded materi al, and simple in its arrangement. It consists of three divisions, two of which overlie the front, almost meeting at the top, and flaring lackward so the side gores. The drapery and the back breadth of the skirt are gathered together, and both are sewed to a belt, an opening being finished at the left side. Now this finished with a neat basque, with a pretty collar and cuffs made of the brocade, and smoked pearl buttons, makes a very pretty suit. But you can searcely go amiss in making your dresses, as everything and every style is fashionable. Of course the lighter the material the more poor dress goods, as the good are so durable that they often do for two seasons. Minnie May.

## -- Inquirers <br> \section*{Answers to Inquirers}

Josis \& Eliza.-Thanks for the pazzles; we will ase some of them next month. An antograph album would be a very nice present. Below I give some erses for one
Go, little book, thy destined course pursue
Collect memories of the just and true ; Collect memories of the just and tran
And beg of every friend so near
Some token of remembrance dear.

I've turned these pages o'er and o'er
To see what others have written before
And in this quiet little spot
I plant the sweet "Forget-me-not.
May you ever be happy,
Live at your ease
Live at your ease,
Have a good husband
And do as you please
Live for those that love you,
For those whose hearts are true,
For the Heaven that smiles above you
For the Heaven that smiles above y
And the good that you may do.

- is your name.

And single is your station,
Happy will be the man,
Happy will be the man,
Who makes the alteratio
You ask me for something original,
Pray tell me how to begin,
Pray tell me how to begin,
For there is nothing original in me
Except original sin.
J. S. - It is not neoessary to shake hands ; it in
much better just to raise your hat when eithe meeting or leaving a lady, but if she should offer her's, certainly take it.
B. P.- When rising from the table should the
chair be placed under the table as found or should chair be placed under the table as found or should
it be put back against the wall ? ANs.-The chair
is usually lett wherever it is usually left wherever it may happen to be as you
rise from the table; you may push it towards the rise from the table; you may push it towards the
table to be out of the way of others passing, but a
lady need not trouble much about her chair. If tabie to be out of the way of others passing, but a
lady need not trouble much about her chair.
there are gentlemen or waiters they there are gentlemen or waiters, they usually draw
it out of the way when the lady rises. 2 nd.
Should we always bow to friends whom we may
 meet on the street, althongh we may meet them
several times successively? ANs.-No, bow the first time only, afterwards you may look pleasantl at each other or on quiet streets intimate friend
sometimes make remarks when passing.

## RECIPES

pumpkin pie
One quart of strained pumplins, two yuarts of
rich milk, one teaspoon of salt and two of ginger rich milk, one teaspoon of salt and two of ginger
cooked with the pumpkin, six well beaten eggs and a half-teacup of sugar.
cure for neuralaia.
A noted cure for neuralgia is hot vinegar vapor ized. Heat a liat-iron buaciently hot to vaporiza which is moistened with vinegar, and the apparatus is then applied at once to the painful spot The application may be repeated uniil the pain dis
spirits of ammonia.
A solution of one and a quarter of a pound of White soap and three-eights of an ounce of spirits
of ammonia, dissolved in twelve gallons of soft water, will impart a beautiful and lasting white ness to any flannels dipped in it, no matter how
yellow they have been previous to their immersion After being well stirred round for a short time, the
articles should be taken out and well washed in articles should b
clean cold water.
grape catsup.
Five pounds of fruit, three pounds of coffee namon, one of allspice, one of black pepper, one half of cloves, all ground, and one halfi of salt Pulp the grapes and bulp separately, and strain to remove the seeds. Mix your spices in a a little cold vinegar, put all together, and boil about five
minutes. This is excellent. The recipe will answer for any sour fruit.

If your coal tire is low throw on a
of aalt, and it will help it very much.
A little vinegar put into sausage meat improves the flavor.
In icing cakes, dip the knife frequently into cold A small piece of charcoal in the pot with boiling Clean oilcloth with milk and water ; a brush and soap will ruin them.
Tumblers that have had milk in them should never be put in hot water.
A teaspoonful of tomatoes in the gravy of either
roasted or fried meats is an improvement
In boiling meat for soup, use cold water to ex-
tract the juices. If the meat is wanted for itself alone, plunge in boiling water at once.
You can get a bottle or burrel of oil off any car-
pet or woolen stuff by applving dry buckwheat pet or wo and faithfully. Never put water to
plentifully and such a grease spot, or liquid of any kind
The skin of a boiled egg is the most lefticaciou
remedy that can be applied to a boil. Peel it care fully, wet and apply it to the part affected. It will draw off the matter and relieve the soreness in
a few hours a few hours.
Beef having a tendency to be tough can be made
very palatable by stewing gently for two hours, very palatable by stewing gently for two hours,
pepper and salt, taking out about a pint of liquid pepper and salt, taking out alout a pint of hiquid
when half done, and letting the rest boil in the
meat. Brown the meat in the pot. After taki meat. Brown the meat in the pot.

Other Fellows Think So Too. There's just one thing a man can have
In all this world of woe and strife That makes the business not tou bad, And that one thing's an easy wifo.
Dost fancy that I love my girl For rosy cheeks or raven hair She holds my heart because she laugh--
Because she laughs and doesn't oare.
${ }^{1}$ put my boots just where it suits, That is a thing you must allow, too A chap can very seldom do. leave my papers on my desk Or takes to light the kitchen stove, The very ones I want to keep.
On winter nights my cosy dame
Will warm her toes before the fire She never scolds about the lamps, On Sundays she is not so fine But what her ruffles I oan hug ;
I light my pipe ust where I please,
And spill the ashes on the rug.
The bed is never filled with "shams"A thing some women vilely plan And spoil the temper of a man She lets me sleep to any hour,
Nor raises any horrid din If it just happens, now and then.
To be quite late when I come in
I tell you Jack, if you would wed,
Just get a gin empers like lamb
And help you on to lots of fun.
Don't look for money, style, or show,
Just take the one who laughs at fate-
Who laughs, and shows she doesn't care
You think. perhaps, our houmehold ways Are just per chance a little mixed; Or, when they get too horrid bad,
We stir ubout and get things fixed What compensation has a man
Who earns his bread by sweat of brow, Who earns his bread by sweat o
If home is made a battle-ground,
And life one long, eternal row? -Harper's Magazise.

How to Save Before Cooking Bones and gristle are thrown away on cooked meats, as indeed they must be-charred to be uase
less, where a French woman would cut both out be fore cooking, crack the bone and make a good soup
out of what is entirely wasted here. Always havy meat boned for roasting. The butcher does it very skillfully to preserve the shape of the joint, an
the rolled meat tied up with a string are really a presentable in ribs of beef or shoulder of mutton, as when the carver has to work on them. Some
housekeepers cut off the long tough ends of ribe of housekeepers cut oft the long tough ends of ribe
beef, that are of so little use after the joint is roasted, and either put them into the soup pot or
into a pickle for corning. They make a good sup. into a pickle for corning. They make a good sup
per relish in this way. The fat, too, in moat meats, is wasted by over-cooking. A portion is needed to be left in the joint, but the house-keepe
who lets the "'dripuin"" dry who lets the "dripping" dry up in the oven
and then has to buy lard to fry in, burns the fat at both ends.
One of the
One of the prettiest of Miss Dod's lectures was
the one on "clarified fat," showing how every sorap the one on "claritied fat," showing how every torap to the house. In marketing for vegetables most of
these are bought by taste. Many of these-roota these are bought by taste. Many of these-roo
that are largely water and sugar or starch, are pre ferred to the more nourishing ones that grow above $\underset{\text { ground. }}{\text { Potato }}$ Potatoes are bulky food, and give a sense of full-
ness, and most famili Less, and most families would feel it was not a din-
ner without this faniliar vegetable. But the beane
and peas and lent and peas and lentils, these last to be found in Ger-
man shops, have much more nourishment for their bulk either for soups or as vegetables. The cabbage is a favorite and rich food. Doce.
tors recommend it in the form of sauare kraut, ite
ferm fermented form; rather than in its fresh cooked
state. It has considerable gluten in its leavem, starchy roots that have the most strengith in them - Rural Home.

## For Those Who like to Knit.

 handsone knitting stitch.This is an openwork pattern, particularly pretty
for shawls, curtains and clouds. ${ }^{\text {Cast on any num- }}$ for shanls, curtains and clouds.
ber of stitches divisable by six.
ber of stitches divisable by six.
1st row-Knit one, thread forward, slip 1, knit
1st row-Knit one, thread forward, slip 1, knit
1, draw the slipped stitch over the knitted one,
knit 1, knit 2 together, thread forward, repeat to end of row.

2nd row-Purl.
3rd row-Knit 2, threat forward, slip one, knit
together. draw the slipped stitch over, thread
forward, knit 1, repeat to end of row
4th row $\neg$ Purl.
5th row-Knit 1, knit 2 together, over, knit 1, over, slip , knit one
6th row-Purl.
7 th row-Knit2 together, *thread forward, knit 3, thread forward, slip 1, knit 2 together, draw
the slipped stitch over, repect from ${ }^{*}$, firish with the slipp
1 plain.
8th row-Purl.
Begin again at first row.
a pretty edaing.
Cast on 5 stitches and knit across plain 1st row-Slip 1, knit 1, over twice, narrow, knit
2nd row-Knit 3, purl 1, knit 2.
4th row-K Kit plain.
5th row-Slip 1, knit 1, over jwice, narrow, ove twice, narrow.
6 th row-Slip 1, knit 1, purl 1, knit 2, purl 1, 6th rem
knit

th row-Knit plain.
7th row-Knit plain.
8th row-Bind off 3 , knit 4 .
Repeat from firs
Repeat from first row.
to crochet the star stitcu.
You can make the rows of holes ran straigh
and the piece you are making come straight by commencing in the first eang stitch in a long stitch
first round hole; finish each stin first round one stitch at the last end. Now if yo want something different, crochet ond, in place o stitch, and when you, turn around and make the
breaking off the yarn, same back on the other side. It is then beautifully ridged and mak

Broil steak without salting. Salt draws the
Broil steak without salting. sale these in
juices in cooking; it is desirable to keep then jossible. Cook over a hot fire, turning frequently, seering on both

## pepper to taste.

Why is a handsome woman like a locomotive No, youre wrong. Irain; it is not because she in dulges in "sparks," it is not because she has some thing to do with a switch; it is not uec she may
trangports the male ; it is not becaue have a hethe least like a locomotive, not even when

How to Set a Table. I make no pretensions to fashion, but consult comfort and convenience. My table ware is plain
white. I like it best of all, for it always looks neat, and can be easily matched if any gets broken. have enough to use as many dishes as are needful. as to my taste a table looks more wholesome in pure
white. Upon the midle of one side of the table White. Upon the midide of one side of the table
the dining plates are set in a pile. The knives and forks are laid for each pers on, with napkins. The goblets are laid in front of the napkins, and a lump
of ice is put into each goblet. During the warm weather, a large water-pitcher and a pitcher of
milk are also placed at each end of the table. The individual butter plates are laid on the right hand laid by the plates. The castor in the centre of the table. A plate of bread is on each end of th table-also one of doughnuts (which is a regulat
stand-by in farm houses) : white bread aud brown bread have each a separate plate.
The meat is served upon a platter, set right in front of the pile of plates; poranes whatever other
dish to the right of the platter, and whater vegetables are prepared are set in covered dishes at the left of the meat. The grayy tureen is
placed between the potatoes and meat. Saucers placed between the potatoes and meat the dishes
for vegetables are set by the sides of the thed of the family always
containing them. The waits on the table, and the mistress sits opposite Pies, puddings, or whatever is for desert, are
placed at her right hand, with small plates or saucers, as needed, and she serves them to the
members of the family at the proper time. If members of the family at the proper time.
coffee is served at dinner, the housewife pours round.
table when dinner is ready, as it is very disagree able to have to keep jumping up to get something We like to pass the butter around, and let eac
one take what is wished. Individual butter dishe are a real saving, as the butter is entirely by it self, thereby avoiding waste, besides being the
more convenient. Pickles are passed around the more convenient. Pickes are passed arour meal,
table. It is expected, at the close of the
that each individual will place the knife and fork that each individual will place the knife and fork
together unon the plate, aud fold the napkin and together upon the plate, aud fold the
leave it by the side of the plate.
This is the every-day arrangement, and if unex-
pected guests happen in, we do not bave to re-set pected guests happen in, we do not bave to re set
the table, but just make them welcome to our
deily fae If company is invited, of course we daily fare. If company is invited, of course we
change the plates after each course, and follow the customs of the times, but it nakes much work that we generally dispe.
in Country Gentleman.

## German Wives.

The culinary art forms a part of the education of women in Germany. The well-to-do tradesman,
like the mechanic, takes pride in seeing his danghters good houseskeepers.- To effect this object, the
girl, on leaving school, which she does when about irl, on leaving school, which she does when about
iourteen years of age, goes through the ceremony iourteen years of age, goes through the ceremony
of confirmation, and then is placed by her parents with a country gentleman, or in a large family where she remains one or two years, or doing the
may be termed the post of a servant, or may be termed the post of a scrant, an apprentice-
work of one. This is looked upon as afers from an ship in domestic economy. She differs from a ser-
vant, however, in this, that she receives no wages; on the contrary, her parents often pay for the care taken of her as well as her clothing. This is the She next passes, on the same conditions, into the kitchen of a rich private family, or into that of a hotel of good repute. Here she has control of the expenciture olly in the cooking, but is always adassists personally ind as and is treated by the family with
dressed as deference and consideration. Many daughters of rich families receive
difference, however, that they receive it in a princely mansion or royal palace. There is a rigning
queen in Germany at the present time who was queen in Germany at Conesequently the women educated in this way. in (ermany are perfect models of economy.

What part of the eye is like the rainbow? The
ris. What part is like the schoolboy? The pupil. What part is like the globe? The ball. What part is liks the top of a chest? The lad. What part is like the piece of a whip? The lash.
part is like the summit of a hill? The brow.

How to Make Moss Baskets. Very beautiful baskets for holding flowers can
made of the longer and more feathery kinds of be made of the longer and more feathery kinds of mosses. We have made them often, and lovely than either clarden ored upon a verdant border of that
when clat
most delicate and beautiful material, which by most delicate and beautiful material, which by
proper management may be made to preserve its proper management may be made to preserve We
freshness and brilliancy for many months. We
will here give directions for their manufacturs :will here give directions for their manufactur3 :-
d light frame, of any shape you like, should be made with wire and covered with common paste be well picked over and cleansed from any bits of irt or dead leaves which may be hanging abou
it, gathered into little tufts and sewed with a coarse needlo and thread to the covering, so as to coarse needhc aly with a close and compact coating,
clothe it thickly
taking care that the points of the moss are all out ward. A long handle, made in the same manner whould be attached to the basket, and a tin or
shour
other vessel filled with either wet sand or water, ther vessel, filled with either wet sand or wate,
placed within, to hold the flowers. By dipping placed within, to hold the fowers. Bin three or
the whole structure into water once in
four days, its verdure and elasticity will be fully four days, its verdure and elasticity will be fully
preserved, and a block of wood, about an inch preserved, and a block of wood, about an inch
thick and stained black or green, if placed under
the basket, will prevent all risk of damage to the the basket, will prevent arl risk of damage to the
table from moisture. To make such baskets affords uch pleasant, social amusement for children, who will find a constantly renewed pleasu
varying their appearance.-[Floral Cabinet.
The Czar has a nice little income-a trifle of 25,000 a day. The Sultan gets $\$ 18,000$ a day, the
Emperor of Austria $\$ 10,000$, the Emperor of Germany $\$ 8,200$, the King of Italy $\$ 6,400$ and the
King of the Belgians $\$ 1,643$.


ORNAMENTED DESTGN.
(Sce deseriptlon page 224.)
"Ladies and gentlemen," said an Irish manager to his audience of three, "as there is nobody here will not be performed, but will be repeated tomorrow evening.
"Oh! Mister," said an old lady after a bioycle wheel runnin' away with a young man. You ki believe it or not. I wouldn't if I hadn't seed it Two young city ladies in the country wer standing by the side of a They appealed to a boy who was coming along the road, for help, where upon he pointed behind them with a startled ai
and yelled "" and yelled "snakes!" "The
the ditch at a single bound.
The effect of mingling with new people who have new methods of thought, is very salutary. Always tion of the mind and heart that is very distressing might be greatly benefitted by getting: way fro home, to mingle with the magnetism of the worl as it courses invasids who need the same change, to
are mental invalids, are meir hearts enlarged, and let in a little more of the great light tose who at home have been well
very valuable to those very valuab ealthful influences in early youth, so
trained by heal that they can avoid the snares and pitfalls into
which they so often blindly fall which they so often blindly fall.

## quate Timms mepartment.

My Dear Nephews and Nibces.-It seems to me a very short time has elapsed between this letter and my last, but already a month has flown
swiftly by. "Tempus fugit" is a very old proverb swit nevertheless a true one, and the elder we grow the more we realize the truth. I am sure you have often seen pictures of Father Time, represented as being very old and carrying a sickle in his hand, with which he removes everything that impedes his course. He waits for no one, rich and poor are treated alike by him, and "time once lost can never be regained." I wonder if you have never regretted the many idle moments spent by you either at
school or at home, and wished so much that you school or at home, and wishe so much recall them! bat they have passed quietly on, never to return. I must not convert this letter on, never to return.
into a sermon, though a lecture now and then has a very salutary effect ; but I am afraid if you had all lectures you would soon tire of my letters. I suppose a great many of you attend school. Now that you have had such a nice long holiday, you should be able to commence your studies with renewed vigor. I know that at first it is rather hard to settle down to earnest study-to some there are a great many more pleasant occupations. However
you will be able to enjoy those better, by and by, if you make use of the present time, and in after years you will look back on your school days as years you will the pleasantest time of your life. You will hardly believe this, but "experience is the best teacher," and after a time you will acknowledge that I am right.

Uncle Tom.

## PUZZIES.

81.-enigma.

My first is is ducat, my second in gold. My fifth is in whimper, my sixth is in scream. My eeventh is in thmeniug, my eigith in drea My ninth is in acorn, my tenth is in seed. My eleventh is in hunger, my twelfth is in need. My fifteenth is in living, my sixteenth in breath. You may epell out my name, you may have me in
view.
But I'm still an enigma to all but a few.
82. -numerical charade. I am an ancient historian composed of 8 letters. My $5,7,3,8$ is a pet animal
My $6,2,3,4$ conveys water My 6, 2, 3, 4 conveys water.
My 1, $2,8,6$ is a nickname.
83.-word square.

First, an explosive article. Second, a mixtur
Fourth, in a servile state.
84,--double acrostic.
Frozen vapor. Fear. A fruit. A form of government. A member of a religious community. ces.
85.-EXIGMA

My first is in cat, but not in dog. My second is in marsh, but not in bog. My fourth is in rubber, but not in whist. My fifth is in cow, but not in milk. My sixth is is woollen, but not in silk. My whole is a poet whose rhythmic lay Are writ in English of ancient days.

## 86. - cryptogram

Seb Utoltg zhf $h$ loxhphgo bto Ggi ozrp rgoe ozx Dhoxgix Tg axkke urtpx zx pleyx

T dhax ixdhrpx cerk zekpx berof deax
Hgf ts T bxoo sektufx Hgf ts T bxoo sektufx Ao zho hgf btu btoo peeg ix zxkx
Oxc hkx rleg ozx hehf


87-illustrated rebus.-Good advice.
Answers to Scptember Puzzles.
$\qquad$


Names of Those Who sent Correct




## HUMOROUS.

An old farmer's wife who had a servant that wa sleep in church. During her slumbers her elbow anluckily overturned a Bible, when to the amuse ment of her fellow-worshippers, she was heard to mutter
hissie."
"Going to leave, Mary ?" "Yes, mum ; I find "Going to leave, Nary" "If thes, mum is anything
am very discontented."
can do to make you comfortable let me know:" can do to make you comfortable let me know:
" No , mum, it's im , ossible. Yon can't alter you No, mum, it's ger, no mor'n I can. Your dresse figger to my figger, no mor'n 1 can. Your dresse
won't fit me, and I can't appear on , undays as
used at my last place, where missus' clothes fitted used at.my last place, where missus' clothes fitted
'xactly." All busy Lying.-" "Where were you
first shot was fired?" "sked the lawyer. "I was lying down on the sofa.
"He was lying down on the back gallery"
"And your children-where were they",
"They were lying down on the bed, fast asle "'They were lying down on the bed, fast asleep." "Well if my brother-in-law was here I expect he would be lying down in the court-house,
is a lawyer unless he has reformed recently
A gentleman the other day saw his little daugh er dipping her doll baby's dress into a tin cup,
and inquired: "What are you doing my daughter "','m coloring , my doll's dress red.
'"W "What with.
"What put such a foolish notion into your head, child ? You can't color red with beer. "Yes, I can, pa; because ma maer." it was beer
that colored your nose so red." And the gentleman had busiziess 'that required
and

In some literary societies it is customary at the
close of the session to have a "funny night," when close of the session to have a "funny night," when
all the orations, essays, and declamations are hum. orous, and when some amusing or ridiculous ques tion is set for discussios. On one such occasion
the following gspeehes, written by a Randolph Macon, student, werere (in substancee) delivered o
Mhe question, "Which is the mother of the chicken the question, " liid hich is the mother of the chicken,
the hen that laid the or the one that hatched it?"Mr. J. on the affirmative ; Mr. C. negative.

This silly-sounding , question, sir,
Concerning fowls'
increase Was specially designed, It think, To show us up as gees
But since I'm bid to speak on eggs
Ill not eggs-cuse nor shrink
I'll not eggs-cose nor shrink:
And as a speech you will eggs act,
And as a speech you will eggs-act,
I'll eggs-press what I think.
That like begets that which is lik
Is one of nature's laws,
And laws of eggs we sure must cite
In this eggeciting cause.
The mother of a cali's a cow
That of a wren's a wren.
Thid thus the mother of a chick Must surely be a hen.
Now set a duck on a hen's egg.
And, granting you have luck,
Pray, from that egg say will there come
A chicken or a duck?
And if you want a Shanghai ohick
Say, genl you sot a Shanghai he Or get a Shanghai egg
Will a Shanghai hen hatch a Shanghai chick
From a common egg, I beg;
Ill take my chance with a common hen,
And a genuine Shanghai egg.
And the Shanghai pullet testifios
Whenever she does lay, We cackle ates a Shanghai chick
Is started on the way.

Then let your hatchers strat around, And cluck, and scratch and pick; Sot sir, the hen that laid that og
Is mother to that chick.

Too Bad
The following is vouched for by one of Philadel bia's divines: A young clergyman having agreen
oupply the pulpit of an older biother absent ron home, eszorted to charch the daughter of th pew, ascended to the pulpit, uncors ious that this hatural attention to the young lady was sufficient adience Upon reading the hymn to be sang th young clergyman was surprised to perveive eviden flurts in the congregation to suppress laughte heme of $G$ race and all unsuspicious of that fact, $h$ e had chosen the hymn beginning with the word

Twas grace that taught my heart to feap,
And grace my fears relieved,
How precious did that grace apyear
The hour I first believed!
Through many dangers, toils and snares,
I have already come;
I have already come
Tis grace has brought me safe thus far
And grace will lead me home.
$-\quad$ Harper's Magazine.
"My bay," said a father to his young son, "treat
every one with politeness; even those whoare rude very one wor remember that you show courtesy to to you. For remember that you show courtesy to
others, not because they are gentlemen, but because you are one.
A colored banker, much alarmed by the failure
of several other hanks in his neightor ff several other hanks in his neighborhood, closed
his own establishment. A man knocked at his his own establishment. A man knocked at his
barred door. "Who's dar?" cried the banker.
"Open the doob '" called the man "Don't care "Open the door !", called the man. "Don't care
whether the bank's closed or not," cried the stranwhether the bank's closed or not," cried the stran-
ger, "I left a pair of new booth here yesterday and
I want them." "Presently the door was thrust partly open and one boot pushed out, with the ore-
mark: "We is only payin' fifty cents on the dol mark: "'
lar to day

A Farmer Who Robbed His Hoy. Last spring a farmer found in his fllok a lamb which the mother would not own. He gave it to hiig son, a boy fifteen years old, who saved it and
raised it. The boy called it his all summer, all the raised it. The boy called it his all summer, all the
family called it his, and it was his. But this fall, family called it his, and it was his. But this fall,
when his father sold the other lambs, he let this one go with them, and taking the pay for it, tucked
it into his big wallet and carried it into his big wallet and carried it off to pay taxes
or put it in the bank. Now this farmer did not or put it in the bank. Now this farmer
intend to do anything wrong. Least of all did he
intend to wrong his boy. Probaly intend to wrong his boy. Probably he did not
give the matter much thought anyway; and if he give the matter much thought anyway ; and if he
did he considered the boy's ownership of the lamb a sort of pleasant fiction, or reasoned that the boy, having all his needs supplied out of the family
purse, did not need the pay for the lamb, and it purse, did not need the pay for the lamb, and it
was better to put it into the common fund. But for all that, taking the lamb and selling it in that way, and pocketing the proceeds, was stealing.
No, it was robbery; and as between this boy and
, No, it was robbery; and as between this boy and
his father, one of the meanest robberies that could
be perpetrated be perpetrated. Not only this, but by robbing the
boy of that two dollars the farmer did more to boy of that two dollars the farmer did more to
make the boy discontented and drive him away make the boy discontented and drive him away
from home than he can undo with ten times that amount. A boy is a little man, and if he has got any of the gather and grip to him when he grows
up, he beginas at an early age to feel that desire to up, he begins at an earry age to feel that desire to to his ownershp, which is at once the incentive to
offective work and the motive which reconciles oriective work and the motive which reconciles
men to their condition. No matter how well the boy's wants are provided for from a fund which is terest in adding to that fund because he does not feel that it is his, and he tires of labor and thought, the proceeds of which he must share with several others; but give him a piece of property of his
own, to manage as he pleases, to keep or sell or own, to manage as he pleases, to keep or sell or
ohange, and let him feel that his ownership is se-
oure and that his loss oure and that his loss or gain depends upon his
own endeavors, and he will work cheerfully and oontentedly.

## How He Would Do It

Young Bummelhans has just been discharged by
his employer, Old Twopercent. The facts are as follows: Bummelhans had just returned from a
trip over the State. His trip had been very satisfrip over to himselfe. perhaps, but not to his employer. He had spent a great deal of money in buggy rides and one thing or another, and had taken very
few orders. When Bummelhans called to see the few orders. When Bummelhans called to see the
old man the latter was mad. He said: "I don't pelieve you makes any effort to sell goods. Ven I
vash a drummer I always sold goods to de mervash a drummer 1 always sold goods to de mer-
chants no matter ven dey dont yant any. I made
cose de acquaintance von everypody
"How did you manage to sell goods when you
were a drummer $\%$ " were a drummer?"
"I vill show you all apout dat. Schoost you
sits down in chairs. You pees a country merchant sits down in chairs. You
I plays now de drummer
"All right," says Bummelhans, "I'll be a coun-
try merchant, and I'll show you how they do" try merchant, and I'll show you how they do." and old Twopercent came np from one side, bowing and old Twop
and scraping.
"Goot morning. Can't I sell you some goots?"
"Who are you?" says Bummelhans, looking up.
"I travels for de Galveston firm of Twopercent." "You do, do you? So you travel for that infer-
nal old thief, do you? Take that!" and to impress upon his employer the difficulties of drumming up
a trade, Bummelhans kicked the old man four or five times, pushed him up in a corner and choked
him for a while, and then told the old gentleman, who was speechless with bona fide rage, "If you evor come in here again I'll not leave a whole bone n your carcass

A Doo Crazed with Grief,-The Providence
Journal tells of a family in Providence, R. I., who about a year ago, moved to Kansas, leaving behind brought up in the family from his birth. After his owners left, he grew moping and despondent, He would run down the road to meet an approaching
team as though he thought he should find his old team as thoghts, and then return dejected. When spoken
friends, to he gave a mute appealing glance. His brain
seemed soon to be affected, aud it was deemed best to kill him to end his sorrow. The affection and
ronstancy of animals often teach valuable lessons.

## Mrs. Lofty and I.

Mrs. Lofty keeps a carriage,
So do I;
Sho has dapple grays to draw it,
She's no prouder with
With Than am $\mathbb{Y}$,
With my bunee.eyed, ${ }^{\text {, }}$ laughing baby,
Trundling by. I hide the face lest she should se
The cherub boy and envy me.
Her fine husband has white fingers Mine has not,
He could give his bride'a palace, Her's comes home beneath the starlight, Ne'er caresses she;
Mine comes in the purple twilight, And pray's that Heiwho turns life's sands
Will hold
His loved ones' in His hands.
Mrs. Lofty has her jewels,
So have I;
She wears hers upon her bosom,
She will leave hers at death's portal
By and by;
I shall bear my treasure with me
For I When I die;
For I have love and she has gold- - be told.
She has those who love her station,
But I've one true heart beside me-
1 'd not Glad am I.
T'd not change it for a kingdom,
No, not I:
God will weigh nus in, His, balance
And then thch difference He'll define
'Twixt Mrs. Lofty's wealth and mine -Authorship claimed by several.
Charcoal and its Uses. Charcoal laid flat while cold, "u a bun, ciur for an hour the burn seems almost healed when
the burn is superficial. And charcoal is valuabt or many other purposes. Tainted meat, sarrounded with it, is sweetened; strewn over heaps of
decomposed pelts, or over dead animals, it prevents any unpleasant odor. Foul water is purified by it. it is a great disinfectant, and sweetens of-
fensive air if placed in shallow trays around apartments. It is so very porous in its "minute interi-
or," One cubic inch of fresh charcoal will absorb nearly forms an unrivaled poultice for malignant wounds and sores, oftcn corroding away dead flesh, reduc-
ing it to one quarter in six hours. In cases of ing it to one quarter in six hours. In cases of
what we call proud tlesh it is invaluable. It gives
no disagreeable odor, corrodes no metal, hurts no no disagreeable odor, corrodes no metal, hurts no
texture, injures no color, is a simple and safe sweetener and disinfectant. A teaspoonful of charcoal, in half a glass of water, often relieves a
sick haedache ; it absorbs the gasses and relieves the distended stomach pressing against the nerves,
which extend from the stomach to the head. It often relieves constipation, pain, or heartburn.-
Ex.

## Some

 curmudgeon of a man gave the follo, dusty, gusty celebration:-"Our fire engines-may they be likeour old maids-ever ready, but never wanted!" Cash Instead of Credit.- -People who buy for
cash always buy cheaper than those who buy credit. They buy also more closely, and select
creat
more more carefully. Purchases which are paid for
when they are made are" limited more exactly to
the the purchaser's wants. There is nothing like hav
ing to count the money out, when the article is bought, to make people economical. The amount
of indebtedness incurred is not much considered when the pay-day is far off. Persons who do all
their their business on a cash basis know just where they
stand and what they can afford. Real wants are few, and can be gratified for cash; at all events,
they should be limited to what can be paid for in cash. How much of anxiety, how many sleepless hours, how many heartburnings, disappointments,
and regrets would be avoided if thia rule were al ways strictly adhered to.

## Make Your Home Beautifn.

 "Make your home beautiful-bring to it flowersPlant them around you to bud and to bloom ; Llant them around you to bud and to bloom; Let them bring light to enliven your gloom ; If you can do so, oh, make it an Eden
Of beauty and gladness almost divine T'will teach you to long for that home you are needing.
The earth rob
e earth robed in beauty beyond this dark time."
[Selected.

## Valises That Look Alike.

If the trunk manufacturers do not quit making so many thousands of valises exactly alike some-
body is going to get into some awful trouble about body is going to get into some awful trouble about
it some time, and some truak maker will be sued
for for damages enough to build a court-house. The other day an omnibus full of passengers
drove up town from the Union depot. Side by drove up town from the Union depot. Side by
side sat a commercial traveller, named William
Macaby, and Mrs. Winnie C Dableton Macaby, and Mrs. Winnie C. Dumbleton. Whan
the omnibus reached the Barret House the commercial missionary seized his valise and started
out. The lady made a grab after him and he halted. "I beg your pardon," she said, "but you have my valise." "Yoertainly mistaken. madam," the trav.
"You are cer said courteously but firmly, "this is mine." eler said, courteously but firmly, "this is mine."
'No, sir," the lady replied. "it is mine. I
know it among a thousand. You must not take know it among a thousand. You must not take But the traveler persisted, and they came very
near quarreling: Presently one of the passengers pointed to a twin valise in the omnibus, and asked:
"Whose is that ?"
"It isn"t mine " said the traveller. "it is just "IIt isn't mine," sial
like it, but this is min
like it, but this is mine,"
"And it isn't mine," said the lady; "he has "And it ism't mine," said the lady; "hhe has
mine, and I'l have the law on him. It's a pity if
a lady can't travel alone in this country without a lady can't travel alone in this country without
being robbed of her property in broad daylight." Finally, the traveler said he would open the
valise to prove his property. The lady objeoted at
first seym valise to prove his property. The lady objected at
first, saying she did not want her valise opened in
the pon the presence of strangers. But as there was no
other means of settling the dispute she at length other means of settling the dispute she at length
consented. The traveller sprung the lock, opened
the valise, and the curious erowd bent forward to consented.
the vatis
see.
On the On the very top of everything lay a big flask, two things nobody knows the name of, . is "Madam," he said, "you are right. The valise But the lady had fainted, and the traveler re-
locked his valise with a quiet smile. Early in the afternoon a sign painter down town ${ }^{\text {to }}$ Barret House to mark a leather valise in black letters a foot and a half long.-[Hawkeye.

## Intruding on Her Majesty

On Wednesday evening, at Windsor, the Queen
retired at 11 o'clock ; we staid behind talking for half an hour. At midnight I set out to find my own apartment, and I lost myself in the galleries,
saloons and corridors. At last I slowly open a door, taking it for mine, and I see a lady boginning
to undress, attended by her maid. I shut the to undress, attended by her maid. I shut the
door as fast as I can, and begin again to search for my own room. I at last find some one who shows
me the way. I go to bed. The next day at dinner, the queen said to me laughingly: "Do you
know that you entered my room at midnight ?" know that you enteree my room at midnight ?",
"How, ma'am, was it your Majesty's door that I
half opened ?" ""Certainly." And she began half opened ?" "CCertainly." And she began laughing again, and so did I. I told her of my per-
plexity, which ahe had already guessed ; and I
asked whether if, like St. Simon or Sully I I should plexity, which she had already guessed; and I
asked whether if, like St. Simon or Sully, I should
ever write my memoirs, she would allow me to ever write my memoirs, she would allow me to
mention that I had opened the Queen of England's mention that I had opened the Queen of England s
door, in Windsor Castle, at midnight, while she was going to bed. She gave me permission and
laughed heartily.-[Monsieur Guizot in Private Life.

Never sit down and brood over trouble of any
kind. If you are vexed with yourselfor the this is no way to obtain satisfaction. Find yourself employment that will keep your mind active ; and depend upon it, this will force out unwelcome

## © 0 的mercial.

London Markets.





Hay, per 100 lbs. 800 to 900 (Straw, per load 200 to 800
Montreal Market.






Toronto Market



New York Markets.


Chicago Market.

English Markets.
 . No, 2pgring,44.5. 6 d.

 Ontario Frut Growers' Association.-The annual meeting of this society was held at
Hamilton, Sept. 21 st , when the following officers were chosen for the ensuing year : Mr. C. P. Dem
sey, of Albury, President; Mr. Wm. Saunders, sey, of Albury, President ; Mr. Wm. Saunders,
London, Vice-President. The Directors for the tarious divisions were also chosen.

The Latest.
Dear Sir,-I thank you for the attention paid to my questions. I must say that I consider the exertions you have made in supplying them with
the best information about their calling. Your inthe best information about intentions deserve the support of
Dominion.
I consider that you have done more than any other individual to maintain the health of Cana. dian stock, and thus obtain good prices. F Earmer,
try to send you some subscribers. Every try to send you some subcin agriculture or horti-
and every one interested in
and culture, should take your very valuable journal.
The paper is worth ten times its cost.
T. ORR, Middlesex.

## 

France holds a fat stock show at Paris, Feb. 4 to 23rd, 1881.
The Hon. H. M. Cochrane was among the pursales.
Messrs. Lang \& Thompson, of St. Mary's, will have a sale of Shorthorns on the 21 st of October. See ad vertisement.
Mr. Rolph, of Markham, Ont, while at the Toronto fair, sold for two year old heifer $\$ 350$.
for one Carroll \& Sons, of St. Catharines, Ont., will Remember place and time. For further particulars see advertisement in this issus.
Mr. Richard Gibson, Ilderton, Ont., has recently gone to England, and intends to return shortly, choicely-bred Shorthorns of the Bates family.
Mr , Treadwell, who is said to be the "most ad-
vanced breeder of Oxford-downs in England has vanced breeder of Oxford-downs in England, has
recently, at publio auction sold 50 Oxford-down recently, an pabverage of $£ 184 \mathrm{~s} 6 \mathrm{~d}$, the first 20
rams at an aver
averaing $£ 8818 \mathrm{~s}$, averaging $£ 28$ 18s.
Mr. George Whitefield, of the model stock and
dairy farm, Rougemont, Province of Quebec, 'has dairy farm, Rougemont, Province of Quebec, 'has
recently imported from Great Britain 48 animals, consisting of Polled Angus, Highland, Ayrshire
and Hereford breeds; also a few black-faced sheep.

## Canadian

 Mr. Nutting secured first prize in the 16-hand class single roadsters in harness, with a bay mare; Mr. Bonch 3nd in the same class with a bay geld-Ming Bind ing. Both of these animals, which were much
admired, have recently been imported from admired,
Canada.
There will be a sale of fine bred stock, cattle, sheep and horses, by the Huron Live Stock Association, at Clinton, Ont.. Oct. 20th. Good stock and
bargains. This annual sale of pure-bred stock, bargains. This annual sale of pure-bred stock
established for four years, deserves the attention esta
of stockmen. It is annually growing in favor.
See advertisement. See advertisement.
John Snell's sons, Edmonton, recently received
from England 17 yearling Cotswolds, selected from some of the leading flocks.. of . England; also a Berkshire boar, which was "first in his class ait
the Royal show of England. They have also sold the Royal show of England. They have also sol
24 head of Cotswolds and a pair of Berkshires T. W. Samuels, of Kentucky, and 1 Berkshir boar to another Kentucky firm.
The Canada West Stock Farm Association have
recently sold to A. J. Alexander, of Woodburn Farm, Spring Station, Kentucky, the six month bull calf Tuberose 51st, by 4th Duke of Clarence (33597); dam, imported Oxford Bell 3rd. It is re-
ported the price paid for this choicely-bred animal ported the $p$
was $\$ 4,000$.
Read the advertisement of H. G. Charlesworth's
sale of Jersey cattle, collie dogs, \&. One of our staff purchased a collie pup from Mr. H. G. and every one that has seen it. w Taking this as a specimen of his stock, we would recommend our
readers to read his advertisement, and we have no doubt but some of you will be able to purchase stoctk worth your attention and your money, espe-
cially as Mr. C. is about to sell everything and cially as Mr. C. is about to se
retire from the stock business.
Mules ror the British Service. - The Gov-
ornment of India has decided to test. the fitness of Cyprus mules for active service in India, and a mountain battery of artillery horsed by these animals has been selected for immediate active
service. There may be profit in raising mules.
Catrile Diseasgs.-The cattle plague is assum.
ing immense proportions in Portland, Erie Co Ohio. The cows are dying in 'great numbers, and much fear is felt on the part of the people for their
own and their children's safety. own and their children's safety. The reporter of
the Enquirer visited the locality referred to and saw several loads of dead cows being hauled away.

Abortion in Cows. A farmer says he has farmed twenty yeara, and his is not probable that in consequence of graving cows for so long a period they have taken the lime. out of the land, and consequently their is a def.
ciency of it to make bone, and the want of which ciences abortion?
chere was a farm near Leeds, which for many There was a farm near Leeds, which for many
years uppplied that town with milk, where in the years supppiears nearly all the cows slipped their
course of years,
calves, and the losses became so severe that the tenant tave up the farm. The farm, which had
acquired asbad character, was sometime urlet. At last it was taken by a man who believed he knew the reason why the ill success attended the last
tenant; he concluded it was caused by the blood of the cows not being sufficiently rich in bone material, and his first step on entering the farm was to dress the land with dissolved bones. This prov
ed he was right; the cows went the natural period producing strong and healthy calves. I have kept
about ter prout ten cows for more than twenty years, and
never never had a cow slip her calf; but then Thave

dressed the land two or three times with half.inch boses, besides using superphosphate of lime with | $\begin{array}{l}\text { bones, } \\ \text { nitrogen } \\ \text { don). }\end{array}$ |
| :--- |

## Save the Strippings.

The last milk drawn from the cow at eaoh milk. ing is much the richest part of the mess. The reae son is the same that the top of a pan of milk whic
has stood awhile is the richest part of it. Th cream, being the lightest part of the milk, rises or emains at the top of the udder, while the heavier vatery portions settle at the bottom, similar1 The richer portion of the milk, being of greater consistency, settles to the bottom of the udder the first flow of milk has ceased, after a lapse of a ew minutes, or while the milker is drawing from cound in the part first drawn. This will be found nearly all cream, and when the object is buttermaking this can be drawn into a small vessel by it. horoughly mixed with the cream. The cream rom the main bulk of the milk will rise more readily and the separation be more complete fore
eing relieved of so much of the cream in the tart, and the part thus taken away will not be ex. posed to the deteriorating influence of the milk as t gets sour or old, and the general result will bo
better butter and more of it. A half-pint or so rom each cow of the very last you can get is genrally enough to save out.
Some people milk in such a hurry that they
ever get the stripping at all, and thus not only never ge the strippings at all, and thus not only
lose the best but soon spoil the
cow. Whether you heep them separate op ont, be ow. Whether you keep them separate or not, be
sure you have the strippings. Milk rapidly, but don't qui
Rural.
Cattle in Delaware State, U. S., are being af. beginning to play sad havoc among them. The insect not only burrows in the hide of the animale,
but penetrates their flesh, affecting them to such an extent that death soon enisues. Giles Lambson recently lost three fine cattle by this pest, and one
of his neighbors lost five, while others are suffering in the same respect. In this connection a Delasays: "The ticks get on the elder bushes, and then on the cattle, poisoning the blood. The cow:
lie down with a heavy fever, and generally die within twelve hours. Some give them as a dose, one ounce nitre and one pound glauber salts.
Others put on blue ointment to kill the ticks. Mr. Others put on blue nintment to kill the ticks. Mr.
Lambson lost five Sunday last; his next neighbor lost thirteen in one day; the five recovering were young heifers, and are doing well. George Grubb
has twenty-eight down, and Mr . Mceoy hine. The ticks came from a drove of Maryland
ne cows, which had been been brought here on cara
that had been used in transporting cattle from Texas. The ticks will spread all over the country unless something is done by the railroad companies

Mr. J. H. Stacey, of Drummond, Ont., ham a
Turkey that commenced laying on the 12 th Turkey that commenced laying on the 12 th of
April. Up to the first week in Soptember she laid
eighty-three egga । Noxt. eighty-three eggs 1 Nozt.

## A Scene on Vancouver's Island.

This scene which we here present to our readers, This scene which we here present to our readers,
though rich in woodland beauty, can give but a faint idea of the beauty of this lovely isle, the gem of the Northern Pacific. The inland mountains of the mainland and the gentle breezes of the ture of the climate, so that it is milder and more enjoyable than that of New York at its pleasantest seasons. Throughout the year the choice flowers, that in less favored climes need artificial heat, grow wild in this island, and "waste their sweetness on the desert air." Vancouver's Island is, as you are aware, part of British Columbia, the most distant Province of the Dominion, from her capital and from the seat of empire, Great Britain. The Province is very mountainous, though greatly diversified by intervals of very productive land,
and rivers having their sources in the highlands.

## ADDITIONAL CORRESPONDENCE.

 Dear SIr,--If you will send me a few copieof your Exhibition No. I will be happy to dis tribute them to parties who do hot take the Advocate. I am surprised that so many
our intelligent farmers take no purely agricultura our intelligent farmers take no purely agricultura
paper, such as yours, and I intend to do all I can paper, such as yours, and $I$ intend to do al
this fall to help increase its circulation.
been been a reader of the ADvocate for years, and I am
satisfied it is the BEST AGRICULTURAL PAPER
 ERS, AND MOST DEVOTED TO THEIR IN
TERESTS. I CONSIDER THAT THOSE WHO TERESTS. I CONSIDER THAT THOSE WHO
DO NOT SUPPORT SUCH A PAPER ARE DO NOT SUPPORT SUUCH A PAPER ARE
STANDING IN THEIR OWN LIGHT. Yours very truly,

## Sept. 6th 1880

$$
\overline{\text { Brule. Conlc. }}
$$

Brule, Colchester Co., N. S.,
SIR,-I September 4th, 1880 .
Sir, - I enclos you one dollar for the Advo

A Small Couple
Germany can justifiably boast of having produc ed the smallest married couple that ever stood be fore an altar, in the persons of a miniature "Mar
quis" and "Marchioness," who have for some time puast been exhibited at the Place du Theatre, a Odessa. The Marquis, a native of Kiel, is thirt years old, and weighs only 19 pounds, while hi fairy-like, consort, a young lady boru in Meuminis
ter some 22 years ago, just turns the scales at 1 : ter some 22 years ago, just turns the scales at 1
pounds. At a first glance, this tiny pair, it i pounds. At a first glance, this ef scarcely wean
said, might be taken for a couple of
ed babies, dressed up for a joke in the garb ed babies, dressed up for a joke in the garb o
adults, but on a closer exanination, the genuine adults, but on a closer examination, the genuine
ness of their maturity becomss unmistakably ap ness of
parent.
A certain flavor of romance runs through the story of the circumstances that led to their union Although they are both German born wond 3rs,
leased by their parents to travelling showmen a leased by their parents to traveling showmen at
an early age, they never happened to meet at the an early age, they never happened
fairs and Kermessen of their native land land ; but a
year ago the Marquis being on exhibition at $M$ ss-


Exte agriculture. The most valuable timber
the Western Hemisplere is in British Columbia On the mainland the extent of land suitable for immediate settlement is estimated at 200,000
square miles ; with the improvement of the country this acreage will be greatly enlarged. The Province is very rich in minerals-gold, silver, iron, platinum, plumbago and coal especially. The Canada Pacific Railway, which is now being built, wlll connect the Atlantic and Paciffc oceans, th entire line bearg 0,000 square miles of good land
comprises nearly 20,000 square miles of good land Its exports are, timber, fish, wool and the precious metals. Victoria is increasing greatly in wealth and ropulation.

Which I receive so much value as in paying for the sent last spring, for which accept my thanks. I hreshed the $S$ wiss oats yesterday, and had a yiel

SIR, Every person in Canada owes you a deb of gratitude, as I consider you have done more to prevent the introduction and spread of contagiou
diseases in our country than any other individual Aug. 25th, 1880

Though this is said to be a year of great plenty all places are not alike favored with abundance. A fall wheat is all over; that which has been threshed gives a poor return. Corn is not doing very well.
The bugg are destroving it."
arg, they hulein Lill was starring at st. Peters hrough reading the newspaper notices of their re spective characteristics, and entered into a corres. pondence, which soon led to a rendezvous, and ulti ment. Now they take their professional round ogether, and are saving up their earnings with cland obect of retiring into private life in the Fathrland. Nuremburg could, doubtless, supply then sited to their minnte domestic requirements.[London Telegraph

A little fellow, turning over the leaves of crapbook, came across the well-'known picture of some chickens just out of their shell. He examined
the picture carefully, and then, with a grave, the picture carefully, and then, with a grave,
sagacions look, slowly remarked. "They eame sagacions they were afraid of heing boilec!"

## The Western Fair

 This is the name of a combination of the East Middlesex Agricultural Society and the London Horticultural Society. The Exhibition was held our following days. The prospects for its sucess were very gloomy. The Provincial Exhibition had compelled its being held later in the fall han usual; the great Elgin exhibition, only tond every exertion had been put previous wraw the masses, and the GovernorGeneral had attended the exhibition.The Directors of the Western Fair had held out extra inducements to attend ; no secret society of any kind had been induced to visit it; no balloon ascension, races, regatta, or lady riding, or any inducement whatever, except the usual agricultural exhibition, was made known ; in fact, the Directors had, we think, indiscreetly refused the usual encouragement to stockmen, and had reduced the prize list to ingle cizens it a failure, so as to enable them to dispose of the ground. No government stock was to be een at this exhibition. The first day being wet, and other causes, prevented some exhibitors from attending, yet to the astonishment of the President, Directors and almost every one, the fair proved beyond a doubt the most successful of any of the large exhibitions held this year, and we may add the only purely independent agricultural one Exhibitors who had gained prizes and honors a otherk was not quite so numerous as at the exhibi tions held earlier in the season, the best stock wa to be seen here ; the quality of many classes wa pronounced better than ever had been exhibited at this fair. In implements at this exhibition many large and extensive manufacturers that had not displayed at any of the other exhibitions, her made a magnificent display. For instance, the Joseiph Hall Manufacturing Co. of Oshawa did not exhibit in Toronto or Hamilton, but here they had their steam engine driving an immense quantity of belting and shars thing that had been exhibited at either of the other exhibitions, namely, the Dominion, the Industrial or Provincial, but in the single instanc of agricultural engines there were four or five more of the manufacturers of these, the greates labor savers, than were to be seen at any othe exhibition, namely, the Oshawa Engine, McPher son's importation from Yipsalanti, Mich., and no less than four agricultural engine manufacturers in this city alone, namely, Haggart Bros., E. Leon ard \& Sons, White, and Stevens, Turner \& Burn The two last named firms are loudy clamoring for trials and tests in fact they could not, exhibit a Toronto and act honorably with their customers the demand has been so much in excess of their capacity to produce
Mr. John Able carried off a diploma with his mill in Toronto, and Messrs. Waterous had one of their engines drawing a threshing machine abou the grounds. The different binding harvester were represented by the Toronto Reaper an Mower Company ; Harris \& Sons, Brantford ; and John Elliott \& Sons, London. Mr. John Watson exhibited his gleaner, or binder, an implement we must speak abont when we have more space. did not count ine nets, but the display on the or of other implements, but the display or the in Canada.

In the Machinery Hall the display has heen
larger. J. Cowan \& Co. wore by far the largest exhibitors here; they have so many valuable wood-working machines, that their circular woul be found to suit those who desi In the Main Bu
space occupied by any the firm was filled with stoves, furnaces, \&c, made by Copp \& Co., of Hamilton. Their exhibit eclipsed that of all other stove men combined-not only in quantity, but in style and finish. You should just examine the im provements made in these stoves; we canno see how any further improvement can be made The other departments of this building were well filled with works of art, fancy and utility a they always has been, with the improvements each year added
The Carriage and Waggon Sheds were over the display of fruit, more particularly of apples, was pronounced by judges, visitors, English, Irish was pronounced by judges, visitors, Eagish, rish
and American, to be beyond that seen in any other exhibition they had ever visited. Roots, vegetables, \&c., were very fine. The floral exhibit was not a good as usual ; of course, the lateness of the tim of holding the exhibition was the reason of th difference in this department.
You all know that butter and cheese would not neglected in this locality
We coltrial for our or some remarks from "Stockman," and also "Dairyman's " report.

## Poultry at the Western Fair.

The show of poultry at this fair was first-class, and the general character of the whole was excel ont. Very few inferior birds were showh with verm Lof the dors were opene ager crowds were anxiously waiting an entrance ad all day the narrow passage was crowded to ita Hlest extent. We sincerely hope our direeter will double the width of passage and add abou one hundred feet in length to the same departmen in the new grounds for the next year. Every coop ad box were full, and 50 feet more outside were dustry with exhibit coops. This branch of farn
 foreign export. The directors should in future hoose three jindes, as two do not always agree We do not say that this was the best show ever eld in the city. Yet there were some biras Chlef among those were the Plymouth rocks, the olored dorking, black cochin, baff, polish, white yame bantams, bronze turkeys, Pekin and crested
ducks. We think it would be wise to add those the prize list that are not in. 1t would be the means of adding members to the society. An idea
strikes not only us but many that there ought to he a class for amateurs. We see by the prize list
hat the successful ones are the same old breeders. that the successfin ones ar eave run a certain strain for years, and have become as it were experts in the show ring. Having a large number on hand
to select from they are able to place in the exhibition coop a pair for the purpose, which in all probability would not get as good stock as some which were left at home. The best stock are those that
are mated for breer ing purposes, not for show. are mated for breer ing purposes, not nor show. Beginneme but their
at herry Grove, Ont.
$\qquad$
Tomatoes and Tomato canning in New Brnns. wick. - The Maritime Farmer informs us that a N. B. Up to the present time they had imported it is now proposed to can tomatoes and all descriptables and meat contracts for the tomatops have already beess made.

What Have We to Learn from th Agricultural Exhibitions of 188 and Previous Years:

What have we to learn from the exhibitions just closed! How many times have these instructors been before our eyes! Should these exhibitions pass without comment, as they generally have
 nensure ill be for fearlessly published, to enable Directors and others rarken a give $\$ 5$ for the best essay, to be written by any ne of our subscribers, on the above subject. The article to be in this office by the 15 th of December; the essay to be written for the benefit of farmers.

## Accidents.

It is wonderful that so few accidents occur at the great excursions and large gatherings. In London one lady while walking among the shafting of the machinery was caught by the ekirt of her ress and dragged to the ground ; the shafting was frtunately close to the floor, so that it could not draw her under, or she would have been instantly cilled ; as it was, she was bally braised and rendered insen oft her separating at the waist In Toronto one of the rakes of a reaping maohine truck a careless little boy on the head and knocked him in front of the reaper knives; the follow. ing rake would have taken the boy on to the knives had not a man close by had the presence of mind to seize him just at the instant or he would have been cut to pieces. Would it not be well to have guards or ropes to keep children and ladies from going too near machinery in motion? At the trials of speed a censurable practico is too often indulged in by drivers and riders coming too tors. At one exhibition a driver was thrown from his sulky, and a great rany were in danger of being killed, by the horse running away; as it was, only three were injured.

## Complaints

There always will be, and our object should be to give publicity to those that are just, and thus en deavor to prevent repetitions.
If you have carefully perused the articles in the several exhibition numbers, you may have seen years past heard of the plans adopted by poultry men, namely, the borrowing of birds from different farm-yards, also the borrowing of fruit, flowere and vegetables; also the exhibiting of grain not grown by the exhibitor, and carrying of the prizes. These practices are most common by those that have figured extensively in the prize lists for many years. There are complaints about in one or more of the boards of directors endea voring to put in and keep in such judges as ar known to be subservient. Legal proceedings are pending a protest against the appointment or dis qualification of a judge, of which we may speak in the future.

Now that the main event of the year is over, and the long evenings give ample time for reading and preparing for next year's labors, we shall fee exertion every old subscriber will use a little speak to obtain one new subscriber. PHeas would benetit. Every additional subscriber en ables us to improve the journa!

## A Grand Prospect.

A most important fact came under our notice at the Western Fair in London. We were introduced to Lieut.-Col. Baron Fawerob de Korbrech, lst Chasseur of Africa, stationed at Algiers, and Captain Henry de la Chére, commanding 13th Dragoons, Paris. These gentlemen have been sent to this country by the French sufficient numbers and of suitable price, to serve as cavalry aud artillery horses. The French Government have tried to procure a supply from various sources; even the mustangs of South America have been tried, and found wanting. The Germans put a heavy export dnty on horsos as soon as the French try to purchase them. These gentlemen have been to several parts of the States, but they express themselves better satisfied with the Canadian horses, both in regard to quality and price. They did not approve of the Clydes; they feet. They pointed out a dark bay colt, with black legs and tail, of fine bone, rather heavier than the racehorse, but nearly as fine, as the stamp of horses they wished to procure.
Mr. John Dyke, the Canadian Emigrant Agent from Liverpool, Eng., accompanied them. The latter named gentleman has just returned from Manitoba
where he has been to examine the country. Mr. where he has been to examine the country. Mr. shippers; they say he has done more good for Canada than any other person they have met. He has watched and guarded the interest of Canada and of
Canadians, and has done much good to Canada in Che cattle trade. He tries to send the risht class of emigrants to Canada, and his information may
be relied on. He informed ns that the present egulations in England give Canadians an advan. tage of ld. per 1 lb . on our beef cattle which is equal this dvantage is berause Canadian animals are free from disease, and are allowed to be
taken alive into the country. Ameriern cattle taken alive into the country. Americrn cattle are very often found afflicted
must be slaughtered on londing.
If the French G.verr ment send to Canada for a supply of horses, increased prices will be the result. Farmers, has not the Farmeris Advocate been
rikht in contending against the introduction or repread of contagious diseases among our farm stock?
Maritime Provinces Exhibitions. We are sorry to learn that the exhilition held at Haring the four days was but 11,300 , and the re eeipts were but $\$ 2$, , 660 , while the expense was
nearly $\$ 7$ ono. The great attraction of the Proneary $\$ 7,000$. oncial exhibition hed ta have led to this resnlt. Th Provincial exhibition at Kentville, N. S., in the centre of the Annapolis Valley, was especially
strong in fruits and vegetables. There were ove 100 entries of apples, and there was on view nearly 00 dozen. The display of horses and cattle was very good. There was a snaral art icles exhilited were principally from Ontario. The total numbe
of exhibitors was 920 , and the exhibits 5.000 . exhibitors was 920 , and the exhibits 5.000 . Of the New Brunswick exhibition held at St
John, we have not as yet been able to learn full particulars. Of agricultural products thee e was a good d.play. The mort successful display ha been of
over 1200 .
Scarcity of apples in England and alundance in Canada.- There have ber $n$ this season antrady
shipped from Montreal to England, 36,000 barrel f "ply es. At this time last year there were nove shipped.
Charles Pratt, of London P. O., Ont., had a nice collection of drain tiles at the Western Fair. Mr Pratt has been'long estathishen, and his tiles hav works, in the lace line Wistninter, and julge for yourctic A istegrizes at the Western for the


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