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The Farmer's advocate HOME MAGAZINE.
william weld, Editor and Proprietor. The Only Mulustratod Agrioultural Journal TBRNS
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made at reduced rates for definite time and ${ }^{\text {spacee }}$ For Advertisidng Circular and Sample Copy, Addrees
THE FARMER's Advocate, London, Onf., Canada.

Our Monthly Prize Essay. Our next prize of $\$ 5.00$ will be given for the best essay on "The best suggestions for the improvement and the advantages to be derived from moneys granted by Government for agriculture and the
dairy interest." The essay to be handed in before dairy interest."
the 20 th instant

To Dur Subscribers.
We would direct the attention of our subscribers to the date on their address on this paper. This date signifies the time to which the subscription is paid or from which the subscription is in arrear.
We respectfully request those whose subscripfor the ensuing year to relieve our busy season. Subseribers will advise us when a remittance not credited after the second month's number of paper has reached them. All errors must be rected.
We have to return our thanks to a great many of subscribers who have already renewed and sent in new subscribers for 1883. Our prospects are brighter than ever for the coming year. A greater interest than ever to assist in swelling our sub scription hist . For this we feel under great oblifested by all. mations, and we promise this flattering support.
It, is our aim to make the next volume better and more interesting than any previous one, and our list of premiums for obtaining new subscribers for 1883 are more liberal and of greater intrinsic value than those offered by any other publication. Send for Premium List and Poster.

## CLUBBING COMBINATIONS!

 FOR 1838.Four of the most enterprising journale in the Dominion-all The Farmor's Advooate and Wookly Free Press
for $\$ 2.10$ a year. The Farmer's Advooate and Western Advertiser
for $\$ 1.90$ a yoar. The Farmor's Advooato and Weokly Globe or
Mail for only $\$ 1.75$ a yoar each





## The Month.

The past season has been so favorable for the growth of after-grass that the cattle will no doub
go into their winter quarters in good condition The addition of a little hay or good straw, night and morning, would strengthen and prepare then for the change from summer to winter food Calves should receive particular attention to keep them in good condition, for if allowed to fall away it will be both difficult and costly to recover their lost condition. Horses should now be well atten ded to, and given a little extra feed to enable them to get through the fall work in a satisfactory man ner, and keep them in good condition ready for spring work. Warmth is as necessary as feed, so
repairing and putting in order the stables and other repairing and putting in order the stables and ontage
buildings should be no longer delayed. Advantage should be taken of the open weather to do as much plowing as possible especially on heavy soil, so that there may be less delay in the spring sowing. The present open season is favorable to draining operations, which may be carried on until heavy frost sets in. The ground being now dry, draining can be easier done than in the spring.
Don't forget when husking the corn to selec the very best for seed.

New subscribers for 1883 will receive the bal ance of this year free, if desired.

Any subscriber desiring an extra copy for an intending subscriber should not hesitate to send their name and address on a postal card, and at the same time procure a copy of our Premium List.
Agriceltere in our Schools.-As the Minister of Education has allowed the rudiments of agricul-
ture to be taught in our schools, we would suggest that he issue a recommendation to school trusseees to offer prizes to the boys and girls for garden
plots, \&c., cultivated by them, and that he himself give annual prizes for the neatest school grounds,
particularly as regards flower-beds, shrubs and particularly
climbers.

## By the Way.

Times will be good until the crash comes. . The sun shines, now, farmers ; make hay. Be prudent, be economical, keep down expenses. Make every
acre do its work, and clear off that mortgage. Horse Gnawing Manger "H Hritss GNAWING A MANGER. - "H. G. B.
writes that he completely cured a horse of the habit of gnawing the manger and haltor strape by
saturating the woodwork and straps with kerosene saturating the woodwork and strape with kerosene
oil. One thorough application produced a perma. oil. One th
nent cure.
Apples are better to feed to cattle, sheep or
horses after being frozen hard once and thawed;解 nould and there is no danger of choking four quarts a day to coow or mare are or good to ofoed, with
coarse fodder. I have used hundreds of buahels to. -arre fodder. Thave used hundred.
[Coker Marble, Somerset Oo., Me.
Many milk companies require farmers to whiteany one who has once enjoyed the luxury of a whitewashed stable will not be likely to disconinue the practice. Armed with a small force
pump and a barrel of whitewash, more whitewashing can be done in a few hours than can be done in
a week with a brush.
Waldo F. Brown is not far from the truth when years' trial of cultivating one-half the land which is now kept in grain, and the growing clover on he other half, would result in producing just as nuch grain as now, at a greatly reduced cost, with
much more of comfort to the farmer and a wonderful benefit to the farm.
A farmer who has used a wagon with broad tires aneels long enough to ascertain their relative alue as compared with narrow tires, writes: "A with greater ease to the team than a two-and-a. half inch tire will carry one ton. The wheels are not so much strained by stones and rough tracks on the road, and the road is not cut up, but, on
the contrary, is packed down and keeps smooth. The prevalent idea that the draught is increased widening the tire is altogether baseless ; on
the contrary, a wide tire reduces the draught. The extra cost of the tire is repaid many times over extra cost of the extra work that can be done by a
every year in thichan -Marmer.
There are many homes where no suitable fce-
pond is near, or no ready means of hauling nor any supply on sale as wanted. In such cases the plan described of moulding ice in boxes close by the ice house may prove quite a feasible method, sters" ready and willing to mould the ice-blocks and build them up. They would have the whole winter for the work, and would gain a good idea
of the amount and power of frost, and of its flucuations. Snow and sunshine could easily be
warded off, and clear sound ice secured, parer and warded off, and clear sound ice secured, purer and The labor and exposure would be reduced to a minimum.[-Quls-quis., in Tribune, N. Y.
Post-masters and school masters will confer a favor by allowing us to consider them our duly grant receipts for the same.
"Always something new and good in the AD vocate."

John Rog, Milverton, Ont

English Letter, No. 4\%. Liverpool, Oct. 5th, 1882. In several of my previous letters I have endeavored to impress upon your farmers the great deairability of their paying attention to sheep rais ing. Those who have taken the hint might now nd urged is eir reward; for all of our sheep market. Never probably within liv ing memory have sheep been so scarce or so dea with us. At a recent sale on the borders of Scot land, sheep fetched as high as $\$ 16$ to $\$ 18$ per head, whilst good breeding ewes seem impossible to b had. A number of Canadian ewes have, I under tand, been sent to Suflik or breeding purposes, own orford down ram, ret the lambs off early and then finish the ewes. This is said to be a very profitable business in many parts of England. The proarcity of good sheep in some parts of this country now remarkable. In conversation with a farmer who came to see his brother off to Manitoba, the other day, I learned that in Gloucestershire, Here ford and Worcester, there is hardly a sound sheep left; the long succession of wet seasons and the ravages of the rot having played sad havoc.
In the low-lying districts, where heavy land prevails, this season has been little better than the three or four preceding, and, this same farmer told me, that on his heary, clay farm, necessitating his seeping 30 horses, he has not been able to work ingle horse for week the thing or carting but there oly very pariol suces has been attained
I have ascertained from a friend, who has been travelling recently through the home of the Hereords, and visiting several of the principal herds, that the demand for this favorite breed, and es pecially for bulls, has not been so great as was ex pected, and ranchmen and others wanting to invest would now probably be able to get some very fair bargains. The leading breeders are well stocked, in expectation of a large demand from your side of he water. The run, however, has been mainly on "doddies" and other north country breeds, fo some of which extravagan prices have been pall England andeavoring principally, to pirches hire-bred stallions, but they are apparently Hot to be obtained at any price-that is horses fit for ser vice next year. This scarcity will, no doubt, lead to a large increase of the colts kept entire ; but there is not much prospect of a fall in prices for years to come.
Seeing that it is now only five or six years since theinauguration of the Anglo-Canadian trade in cat tle, the improvement in the character of your exports is remarkable and highly creditable. Every one remarks that the grass-fed cattle coming from Canada this year, are little, if any, inferior to the best classes of stock coring hom ing the met well on your took, and giving the little hard food to finish them of Canadions will have little or no difficulty in getting the best price going.
This is rather a dull season in all matters. The excitement of the Egyptian war is over, even Ireland tis quiet, anderthe farmers, thankful for small mercies, are glad to get off a few shades better this year than has been their lot for a long time. \#As one" farmer remarked: "It is not so much lower rents as better weather that they require ; for, with seasons such as have been the
rule, with no rent at all to pay, they could not rule, with no rent at all to pay, they could not
make a profit." They are stillinliving mainly in
hope and the harvests having been? proved, they are nanguine that the tide has turned

## On the Wing

## Mantroba-No. 2.

Brandon.-This is a prosperous and thriving town situated on the C. P. R., about 150 miles from Winnipeg. This is naturally the finest site for a ity we have yet seen, either in Manitoba or the North-West Territory. The Assimiboine River ans through the city. We call it a city, as suff ve noubt it will soon attain popuich is ofte ent to entitle it to that appellation, whe Wester prairies. The soil here is not as tenacious as in Winnipeg. There is a fine valley on each side of the Assiniboine; from the valley the banks of the river rise to a good altitude in a sloping form, so a allow streets to be laid out on the sloping hill, are Ator, he land is undulating, thus affording an excellent pportunity for draining. About 2,000 inhabitant were in the place when we were there; but the growth of these prairie cities is such that one is bewildered at the rapidity with which they in rease. The population may be doubled by thi
Being very desirous of seeing more of the farmers and farm life than we had an opportunity of oing in the rapid transit we had made, we left ou party to partake of the hospitalities so liberally prepared by the Brandonians. We enquired of tranger we met in the street where we could pro cure a livery rig. On ascertaining our object, he drive us into the country. We accepted the offer and in a few minutes we were rolling over the prairi Our Jehu was a strong, hearty-looking Englishman lawyer from Lincoln's-inm, London, England. He informed us that he came to inspect the country for the purpose of procuring land for his relatives; some of them were now residing in New Zealand and some in England. The name of the gentieman was W. Lester Smith. He had been in the country about a year, and had purchased 12,000 acres on Plumb Creek, in the Souris district He was preparing a home for his relations. H considered the investment of capital would be more profitable here than in either England or Ne zealand. He had already broken up 200 acres and highly pleased with the prospects before him.
In the suburbs of Brandon we called a brick-yard. We found that after remov ing abound $l$ o lighter color-a light-colored clay. It did not appear as tenacious or greasy to the touch as our clay. We thought it would no make good brick, and on examining those that were burned, we expected to hear a dull thud when we knocked them together, this being a test of good brick with us; but to our surprise, the bricks rang like a bell, indicating good material.
We drove over the prairie a few miles and halted at the residence of Mr. Charles Whitehead. Thi gentleman was seated in his buggy, and was jus about to start around his farm. We informed hin that we had but a short time to stay, as we must shortly return to catch our train. He said, "Jum into my buggy, and or through 400 ace fied plowed grut, crop was as nice a standing crop as we could wish to behold; hardly a bit of lodged grain could be seen. The straw is very different from our straw in Ontario-much stiffer, stronger and brighter Had we such a crop in Ontario, it would have been all lodged and tangled on every farm, but we never
saw such a fine piece of standing oats before, in faet, we do not think they eould be surpassed
wo harvesters were at work; one man drove and attended each machine. The machines were going at even intervals. These two Giant Harvester were cutting and binding this crop at the rate of 20 acres per day. Mr. Whitehead says he will have 20,000 barrels of oats to sell. Last year they were worth 75c. per bushel at Brandon; this year Mr. W. will be quite satisfied if he realizes 50 c . The influx of settlers and the construction of railways cause such a demand, Mr. Wastie, formerly of London, informed us, that last year when tra velling through the Q'Apelle Valley, he paid $\$ 3$ per bushel for them to feed his horse. Horses d not work hard and live long in Manitoba.
In addition to Mr. Whitehead's oat crop, he has 20 acres of wheat, 6 of barley, 4 of potatoes, and 4 of mangles and turnips. He has commenced to aise a herd of Ayrshire cattle, has planted out a young orchard, and has a vegetable and flowe arden. One of the choice plants hai was pointed cerned, was a plant of the Russian mulberry, which , OC TE office It had made a good growth, despit its having been transplanted after it had com nenced to grow.
Mr. Whitehead invited us into the house, sayin hat as they were subscribers to the Farmek's advocate, his wife would be much pleased to se s , as she thought much of the Advocatr. We entered a comfortable frame house, nicely furnished. We were introduced to Mrs. W., partook of a glas of buttermilk, and were invited to remain or come gain. But knowing the train would not wait, we bid them adieu, jumped into Mr. Smith's vehicle and hurried to the station, and in a few minute we were off with our party, most of whom ha been enjoying the city hospitalities
Do you not think Mr. Whitehead has done won ders, when we inform you that it was only on the th of June, 1881, that he took possession of hi arm, then an unbroken prairie? The soil on Mr Whitehead's farm is of a lighter nature than the and about Winpeg, an W think by judiciou a tility. It will not produce as heavy crops of wheat is land on the Souris and other places, but from it olling nature, the ease with which it is worked nd the advantageous situation in regard to mar ket and a healthy locality, he envies not those armers in the more fertile, level and more distan localities.
a manttoba stock barn.

Mr. Whitehead, like most of the settlers, finds great difficulty in procuring building material, bu as his land is rolling prairie, he has adopted a very excellent and useful plan that may with profit b dopted by many. He has excavated three large ellars, leaving a good breadth of earth between them; they are excavated to the depth of abou three and a half or four feet. The earth taken out is placed the rop of the a This gives him depth enough to make good stabling for his stock. The top is covered with small pop lar poles, and a few posts are set up through the centres of the widest openings to support the poles. When threshing his grain he sets his machine so as to thlirow the straw on the top of the poles, covering the whole to a good depth, so as to en tirely keep the frost out, except at the openings or doors, which are easily made tight or double if necessary. Last winter it was so warm that he wa obliged to out openinge to admit the air. Thin yoe
he intends to leave ventilating passages. We have been practised to elect persons to positions nòmimade a drawing from memory, as we had not time nally for the interest of agriculture. Have to take a sketch when there. The cut and explan toba subscribers.

## Farmers of Canada.

No nation of modern date has had such agrand opening for agricultural advancemen as you have had-the vast extent of fine, chea lands, with our healthy invigorating climate affords hones for millions. In no country have agriculturists a better opportunity for obtaining homes and competency so securely and easily, tions as a pattern and guide for our profit We have the improvements of all nations to copy from, and, as far as agricultural ad copy from, and, as far as agricultural ad
vancement is concerned, the visits to any one of our great agricultural exhibitions by foreigner have convinced them that Canada as an advancin agricultural country stands unsurpassed in th world. The very best stock that England oould produce has been brought to our coun try, and in agricultural machinery there is none manufactured that can surpass the production our workshops.
No calling in life should tend to give man a higher appreciation of morality, truth and justice, han farming; no body of men should have influence or power in the manageer in the manage-
mentof theaffairs of the nation than the farmers. It is by their labor and care that all must exist. The question ariseslo we, as farmers, hold the rightful position and inAuence we ought to hold? Are we one of the powers in the land, or are and manufacturer richer? Are we encourag ing every monopoly to the injury of the plain, practical, industrious farmer? Are we de seiving ourselves in laying the foundations of op pression? Can we in any way obviate the ten ency to oppress the farmer? What has been one and what should be done? Should we no openly and truthfully expose and condemn all at mot $f$ an misdoings ? Should we not openly discuss every tep taken by those who have power, and examine whether they are laboring for the interest of farmer or for others, under the guise of advancement of your welfare?. We dg not pretend to say
that other interests should not be looked after, ut they all have their able and well-paid advocate to attend to them. The difficulty is to preven many of them from depriving the farmors of thei due proportion.
The Government of any country has much to do with the elevation or degradation of any class. I the farmer the person who is or has been aided Some'may say the Government liberally grants money for agricultural advancement. Are the ums formers, or for partizan purpose Examine into the modes and deviees that have
we the serfs and slaves of all? Do we elect
men to power to enact laws to make the or the some useful hints or observapoor farmer poorer, and the to make the


4 manttoba gtock barn tions that might tend to improvement. The pages of this journal have been open for seventeen years interest, ănd as this journal has more subscribers than all other agricultural jour nals in Canada combined, by giving information through it, you reach those who must in the future sway the interest of agricultural affairs in Canada. Let us have a good discussion about agren id us in many ways to make the ADvocate of aid us in
Each of the many questions above offer a foun dation for an address, a lecture, or an essay. Each ne should be able to answer frankly.

The Prince Edward Island Exhibition Was held at Charlottetown, Oct. 1tth, and was in very way a success. The exhibit of horses was excellent, cspecially in carriage and roadster stalions. The show of cattle was much too small for the capabilities of the Province, the entire lot num bering only $\%$, but hown, notably some whe
In sheep hese the entries lot numbering than in reater portion being in pairs and pen, so that the animals on exhibition numbered several hundred, nd altogether there was a very fair assortuent in Leioesters and Şhropshiredowns, but a pair of

Oxforddowns, recently purchased at the Kingation Exhibition, were the attraction of the sheep olama, In pigs the entries were fow, but the deficiency in number was compensated by the axoellionce of the animals exhibited.
Of poultry there was a good exhibit, the birde hown being of first-rate quality.
Buttrr and Cherse.-It was very pleasing to note the array of butter tubs and baskets. Thero were no less than fifty entries of butter, comprising many hundred packages. The quality was oxcellent, and the judges had a diffcult task in deciding Another pleasing feature was the exhihit of footory made cheese, which was admitted to be of superior quality. Of home-made cheess it is worthy of ro mark that the three prize takers were three eistors, Perhaps there is some family secret which accoun
for the uniform excellence of their cheese. There was a good display of agricultural imple ments, no ably among which was a fanning attach ment to the ordinary threshing machine. It at
tracted much attention, and demionstrated its utility taking the sheaves in at one end and pouring out
the clean grain, fit for market, at the other. It is a the clean grain, fit for market, at the other. It is a
simple, practical contrivance to lighten the labor simple, practical contrivance to lighten the
and save the time of the farmer. and save the time of the farmer.
There was also an excellent display of vegetablen,
fruit and flowers.

The Western Dairymen's Exhibition This exhibition was held in Woodstock, the county seat of Oxford, Ont., on the eleventh county seat of Oxford, Ont., on the eleventh and twelfth of October. The time was woll after the completion of the fall wheat seeding, and the weather could not have been more favorable, being in the midst of our most lovely while the learee aro yet on the aro yet on the
trees, the roads are at the best, and nearly every. thing secured for the winter, which this year has tarried longer than usual in sending its blasting wind over the country, for up to the time of writing (Oct. 17th) no frost has touched the tenderest vine in our garden. But time and weather are not the only points on which a suc cessful exhibition depend
The exhibition hall was decorated with overgreens. The display of cheese was large and very good, some persons having sent large quantities
make a display. Notwi hhstanding all these able features, the exhibition was not a succeas, the is, speaking from the amount of instruction im parted or profit derived from it.
For this Western Dairymen's Exhibition we have to depend on reports-not those we haveread-but from enquiries from those whom we deem most reliable to give information. For that pur pose wo attended the cheese market held in London, Ont., on the Saturday after the holding of said dalry exhibition ; the London cheese mar ket is the largest held in Canada. We attended between three and four o'clock, and met at that time fifty-three manufacturera, alaesmen and bay Of this number only seven had attended the cheeen fair, and only two of them were purchasern-show ing only five Canadian dairymen out of this number that had attended. The first information recoived was that the Dairy Exhibition was as complote a
farce as had over taken place in Canada. The
attendance was most meagre-less than 200. Even those who exhibited merely took their cheese ther and left it, but were not to be seen. "It was the dullest place I ever was at. I walked about the first day and could not see the cheese or any one to talk to. There was no cheese judged, because the officers of the Association took the two American judges for a drive through the country and did not return till the was closed. until two 0 'clock in the afternoon none could go in except the judges. After the door were opened there was not time allowed to enable the public to compare the cheese, as it was soon boxed up, just as if comparison was avoided. One good judge of cheese who was there informed us that one parcel that he examined and considered should have had a prize, was superseded by one of less merit. Nearly all the first, prizes went north and around Stratford. The few that attended were nearly mad enough to kill the President of the Association. Some say he has
been doing his utmost to curry favor with Americans for private or other purposes, and that the interest of Canadian dairymen has been entirely overlooked, and it is the last dairy exhibit they will attend unless it is placed under different manage ment. Even tre dairy interest, great as it may be is not of sufficient interest to draw a crowd for two days to look at a lot of cheese shut up in boxes.
When the dairy exhibit was held in connectio When the dairy exhibit was held in connection with the agricultural exhibition at Ingersoll, it was a grand success, but this has been killed. The people of Woodstock are vexed. They expected great cerowd, and made preparations for it. Eve a great dinner was prepared, but only about
twenty-five attended. This is the result of attempting to trample on the dairymen. Why would not the best Norwich factorymen exhibit? What does it signify if prizes are given if the best do not compete for them? People that purchase cheese carrying off the first prize at this exhibition, must console themselves that they ar only consuming the second quality of cheese made in Canada, because the best factorymen would not exhibit, and the best cheese are now lying on the shelves of their factories. In some classes there offered. The butter exhibit was a most pitiabl display, only a very few parcels to be seen, not si many as at a Township Exhibition. The dairymen of Western Ontario as a body care nothing for the Exhibition, and when of interest to less than fifty people what can be the benefit of such an exhibition? The indignation expressed is worse than we dare publish. Why has this exhibicion bee good result from it? Why has this been separate from the Provincial Exhibition, or from the Inger soll Exhibition? Has the Government grant bee expended for the dairy interest? Was fair play convention at Woodstock ? Will the Government continue the grant to the dairymen unless better use is made of it? What steps would be best to take to secure a more beneficial result from the money granted to encourage the dairy interest Has not this grant of money been expended intentionally for the injury of the Provinitial Fx. hibition, and has not the principal mover in this
expenditure been a member of the Provincial expenditure been a member of the Provincial
Board? Can a house divided against itself stand Board? Can a house divided against itself stand?
We will give our monthly prize of $\$ 5$ for the best We will give our monthly prize of $\$ 5$ for the best
essay on the following subject: "For the best lot of suggestions for the improvement and the advantages to be derived from moneys granted by Government for the dairy interest and agricultural advancement.

Delaware Township Exhibition. We had only time to attend at one township miles from this year; that was at Delaware, twelve in the county, and the village is at one corner of it. ndians own nearly half the township and each township around it has a separate exhivition. Not withstanding these and many other disadvantages, early the whole township assembled. The ladies and children were here in ten times the proportion he Industrial Exhibitions. All appeared so happy nd pleased, and the interest that was manifestly aken in examining the different exhibits we never saw excelled. There was no horse-racing, baby how, or other outside attraction countenanced by the Association. It was purely an agricultural oxhibition. The number of entries was nearly double what it was last year, and the display of lock, roots and ladies' work had never been so varied and complete. The day was fine, the prizes and honors were distributed in a fair and impartial manner, a general satisfaction prevailed, and all, so its contiwne and wished for its maintenance

## The Provincial Exhibition.

SIR,-I was surprised to see that no notice had been taken in your paper of the suggestions made
by the Hon. E. Blake and Thos. White, M. P., at the dinner held in connection with the Montreal Exhibition. As you profess to be the champion
dvocate of the farmers' interest, I certainly exdvocate of the farmers interest, I certainly ex-
pected that any remarks or suggestions upon a pulture by such an eminent man as Mr. Blake, ould not have passed unnoticed
At the Citizen's Dinner in connection with the
Montreal Exhibition, the Hon. E. Blake suggested hat a triennial show may be made a more worthy xhibition of the resources and progress of a Pro-
ince than an annual one. Mr. Thos. White gested that there should be one great show in Montreal one year, in Toronto the enext, and in the Maritime Provinces the next; and he believed the
whole Dominion would be better served than it could be under the present system. I have no doubt that such was their opinion. I carcely think that either of the gentlemen have
ver studied the details in connection with an exhibition, or the expense attached thereto. I must say I think their ideas in this particular instance
are impracticable. We have in our imedice re impracticable. We have in our immediate
neighborhood manufacturers of implements, machinery and fabrics, breeders of cattle, horses and
sheep; we have the finest sheep; we have the finest grain-growing country
on the continent, but to send samples of the above nd many others, say to Halifax and return, would
and entail an expense so large that few would venture on the experiment. The expense of sending goods
oo Montreal is a serious tax, indulged in only by a very limited number. There would be another strong objection to western manufacturers and
others sending their goods very long distances to an exhibition, which is, that they would have neglect such, exhibitions as the Western Fair, at which fairs they annually receive a large amount
of orders. It is to be regretted that the Dominion orders. It is to be regretted that the Dominion
Exhibition, held in Montreal, was a failure. The same may be said of several other places. It ap-
pears from what I can learn that the only two pears from what I can learn that the only two success were the Western Fair in London, and the ndustrial Exhibition in Toronto. If the other exhibitions, including the almost effete Provincial,
would imitate the spirited example of the director of the two successful exhibitions, there would be no need to bolster them up with a triennial exhibi-
(tion.
W. Y. B., London, Ont. ion.
[We look on this as one of the means devised to nnihilate the Provincial Exhibition of Ontario. wominion nxicssions that have been held hitherto ers ; hardly any attended from Ontario) We beieve a Dominion Exhibition might advantageously be held if it were conducted properly; but as to this proposition, we do not think that the Ontario farmers would desire their funds expended in such $a$ manner, and surely if there is to be a Dominion

Exhibition, why should not the North-west have an opportunity to participate, as well as the Mari time Provinces or Quebec? We feel satisfied that the farners at Ottawa and Halifax will not receiv any more instruction from a Dominion Exhibitio at those places than from a Township or Distric draw the attendance of farmers would reap more profit by exhibiting in Winnipeg than they did when exhibiting at the Dominion Exhibition in Ottawa. Because the Provincial Exhibition at Kingston this year, through stress of weather was financially a failure, is that sufficient reason for abolishing it? The leading agri cultural exhibition of the world, viz., the Royal of England, was held this year under similarly ad verse circumstances, and although held in a popu lous district and in a neighborhood where a larg attendance under any circumstances might reason ably have been expected, the people did not attene
because of the wet weather. No matter how great the attraction, people will not turn out if the weather is unfavorable. The Royal Society lost many thousands of pounds, yet we do not hear of any attempt being made to abandon their annual meeting. We cannot do better than follow their example, and not be discouraged. Remove the existing evils in the management, and with favor able weather, our Provincial Fair could be made a successful as any fair held in the Dominion.
We regret that our space did not permit us taking notice of all things that we considered worthy of mention in connection with the fairs; for the same
reasons we are unable to give descriptions of the Guelph and other fairs. We should like to have described the well-arranged Manitoba exhibit which was so instructive and interesting; also the dairy exhibit at Kingston, with its appliances fo testing the milk of the various breeds of cows, and from which we gained more information upo dairy matters than at any exhibition that we eve attended. And the meeting of the Board, at whic there were representatives fromOctawa and Guelph when it was decided to hold a Provincial exh bition next year. We presume the reason whe Hamiteration the the tid not wish to shown the cold shoulder for years, the same a Kingston.]

## Judging Horses.

When attending one of our most successful exhi bitions during this autumn, a practical farmer directors appoint good judges on the heavy draft class of horses, as it is discouraging to breeders to have inferior animals given prizes to the rejectio of better ones. We replied that we presumed th directorsappointed the best they could get, and asked him to suggest a way for improvement. He re plied: "Let judges be appointed from those who have had experience-men who have expended money in importing or breeding; they have learned more of what the value and merits of a horse ar than those who have never invested money such as might be of value to directors of agricul tural societies.

## Farmers' Clubs.

The Secretaries of Farmers' Clubs will confer favor on us by forwarding the dates of their mee ings, also reports of the subjects discussed.

Perhaps some of our readers who have used sulky plows will send us their experience.

Freight and Passenger Rates on Railways.
A letter from Verdun Station, C. P. R., states
that a passenger on the C. P. Railway, on Au uust 14, was charged $\$ 4.30$ for a journey of 38 miles, and another person $\$ 4.60$ for the same journey. Nine cents a mile is, it would appear, a pretty
ound charge for travelling on a line for which the people first pay and then give it over to a Mr. T. W. McDermott, of Almonte, who recently returned from Portage La Prairie, Man., relates some interesting experiences of excessive charges
on North-West Railways. He purchased at the on North-West Railways. He purchased at the
Portage some sixty thousand bushels of wheat for the Pillsbury Flouring Mills of Minneapolis, and on enquiring of the Canada Pacific Railway Supercould be offered from Portage to St. Vincent were 667.50 per car. The distance is only 120 miles, or the same as from Ottawa to Montreal, over which
route the rate is only $\$ 15$ per car. There being no route the rate is only \$Derper car. There being no
alternative, Mr. McDermott accepted the rate, and on arriving at St. Vincent was informed that the cost from there to Minneapolis, about 450
miles, over the St. Paul, Minneapolis, and Manitoba Railway, was only $\$ 56$ per car. Mr. McDermott says he knows several farmers who have sold their properties in Manitoba and gone to the States
because of the exorbitant charges on the Canada Pacific and St. Paul roads. In some cases it takes the price of two bushels of grain to pay for the
trangportation of one bushel to market. Freight is carried from Sarnia to Prescott, about 400 miles on The Grand Trunk, for $\$ 55$ per car.
assenger and freight rates any reason why the hould not first be approved by the Supreme Court and then made law by Order in Council. Passengers and shippers should be allowed to appeal to
any Court about local rates instead of waiting for any Government interference.

## The London, England, Dairy Show

The seventh annual exhibition of the British Dairy Farmers' Association, just held at London, class of Jerseys, some Ayrshire and Kerry cattle,
and a few Dutch and Swiss. Entries of butter and cheese were fewer than last year.
Of Jerseys there were altoget
Of Jerseys there were altogether ninety head,
mong which the judges had some difficulty in mong which the judges had some difficulty in
naking their selections. Many well-known exhibitors, such as Lord Braybrooke, Mr. G. Simpon S.
of Reigate, and Mr. Arkwright of Chesterfield, of Reigate, and Mr. Arkwright of Chesterfield,
sent stock, but others, notably Mr. Wingfield Digby of Sherborne Castle, were not represented.
Mr. J. Cardus of Southampton took first prize in he cow class, Mr. LeBrocq of Jersey second, ind Mr. George Simpson third. In In the heifer classes
Mre the prizes were- First to . J. R. Corbett (Beck-
worth), second to Mr. E. J. Arnold, of Jersey, and worth), second to Mr. E. J. Arnold, of Jersey, and
third to Mr. P. J. Brideaux of Jersey. There was third class of Jersey heifers, bred in the Channel Islands, and imported expressly for the show, and
here Mr. E. J. Arnold of Jersee was first, Mr. G. Simpson second, and Mr. H. A. Rigg, Walton-on-
Thames, third. The Guernsey cows were few but choice, and the three prizes fell to Mr. J. James of
Les Vauxbelets, Guernsey. He also took first prize among the heifers of the same breed, the
second going to Mr. E. P. P. Fowler of Southampsecond going to Mr. E. P. P. Fowler of Southamp-
ton. Messrs. J. Welford \& Sons of the Warwick Fan. Messrs. S . Weirord
Fhow, hairy, who were the largest exhibitors of the
shoer of valuable cows in all classes. Of Shorthorns there were two classes-one for hose quals of the same breed without registered pedi. grees. Of these the Field remarks :
"There were some very useful good Shorthorns wown, and as a proir footing in London milk-sellers' cow houses, the class was worth seeing; but it could not hold a candle to class 2 (i. e., that for unpediClass 2 had some magnificent cattle in it, and how any one could look at these and say that England Wants a new dairy breed is a puzzle. Can any one
in his mind's eye conceive anything more adapted to modern wants than the lot exhibited by Mr. Thomas Birdsey, Southcott Farm, Leighton, Buzzard ? He won first prize with his Primrose (which
also stood reserve for the cup, and if milk had been recognized as merit, should have won it)."
One of the Shorthorn cows present was
One of the Shorthorn cows present was said to be giving 34 quarts a day, and another was suc
ling a triplet of calves, two bulls and a heifer.

## 解ints aud

## A Farm Tool House

One of the most useful and money-saving build-
ings that a farmer can place ings that a farmer can place on his premises is a ally the case that there is room enough in the various out-buildings to house the farm implements i it is economized; but it is a corner here, and a few
feet of barn or shed floor there; sometimes in feet of barn or shed fioor there ; sometimes in a
cellar, and sometimes in a loft; possibly easy of
access, but probably difficult ; and in all such inaccess, but probably difficult; and in all such in-
stances it is space originally intended and really needed for some other purpose. The main really why so many farmers neglect protecting their implements from the weather when not in use, is th


Our illustration is suggestive. It is adapted to a buildings are made of that material, laid without mortar. The foundation is placed below first, and the earth is banked on the outside to further pro
tect them, and to throw off water. The top of the wall is leveled with mortar, and a two inch plank
laid on to which the rafters are spiked. The latter laid on to which the rafters are spiked. The latter
are braced on the inside by nailing on cross-strips are braced on the inside by nailing on crosss-strips
The roof may be made of cheap material. There is one window in the end opposite the door. If
the locality is not too much exposed there is little the locality is not too much exposed there is. The methe
need of doors. The ground is the floor. The need of doors. The ground is the hate hat fore should
walls and the structure
be $20 \times 30$ or 40 feet long. be $20 \times 30$ or 40 feet long.

## Ice Ladder.

The ice ladder is used to draw the floating cakes
up on the surface, and to load them upon the sled up on the surface, and to load them upon the sled or store boat for removal to the ice house.
give an illustration of this ladder with description of making and using the same. It is a perfect im
plement for the purpose. The ladder is about 12 plement for the purpose. The. The upright pins
feet long and 20 inches wide. .the
must be strong, and the round at the end extend

## presurexply

through both sides to make handles. The latter is lowered into the water, at the ladder, and, at the
over it. Then draw out same time, lower the handles. The pins will hold the cakes upon the ladder; ;hen upon the surface it can be quickly unloaded by raising one side of
the ladder. The ice should be taken to the house and packed at once.
We believe that those who go into black rasp
berries for evaporating and canning and the red canning (say nothing of market for fresh fruit), heavily now, will reap an abundant reward. A hint to the wise is sufficient.

Now that the long evenings are at hand, com
nanications and
questions reports of Farmers Clubs, \&c., give us the benefit of your experience. When renewing your subscription state how you inke your paper, ofer sugges yos for improvement build up,
month.
Friends of the Farmer's Advocate, show your try it just one year, and that if, at its expiration, they do not find it the most pronitable investment they ever made-why, then, in that case, they
may send the bill to you! Such words, you see, may send the bill to you! Such words, you
would forcibly domonstrate your good faith.

Stack.
Cattle Diseases Spread by Earthworms.
The investigations of Pasteur, in regard to the ransmission of contagious disease through the gestions to our dairymen and stock-growers in re gard to the disposition and burial of animals dyin on the farm on account of diseases infectious and my mind where farm Several instances oocur to quainted have lost a number of animals from year to year in succession from complainta that appeared
mysterious. In one case a dairy was broken ap mysterious. In one case, a dairy, was broken a
for a number of years in succession, the animat dying suddenly while at pasture and supposed to
have been poisoned, though no evidence could be obtained against the suspected partiee
In this case the loss was very great, and was dis tributed over a number of yeara, abborbing much
more than the income of the farm. The diryman was a man of strict integrity and highly dairyma by those whó knew him, and never having had an
aitercation or any trouble with his neighbors, with altercation or any trouble with his neighbors, with his accuaintances or hired help, he knew no reaso
why his animals should be poisoned. He examined
very thoroughy hio very thoroughly his pasture lands, Hout eoxamide find
no plants likely to injure his stock. Finally his no plants likely to injure his stock. Finally hin
lands were plowed up, and dairying for the most lands were plowed up, and dairying for the most
part was abandoned; and after an intermission of some years, on returning to the dairy husinoss, no
trouble was had with his herds. Though for a trouble was had with his herds. Though for a
long time the cause of these losses was auspooted to be poison administered by some person having
ill will or a grudge against him, I think this idea was at last abandoned and the cause of the trouble Was at last abandoned and the cause of the troubs ture land or the plants growing therein.
In another instance the losses for sov on account of stock dying of a mysterious disears were very heavy, and they continued without inter ruption until the place where the diseased animals were buried was fenced about, and his stock ex
cluded from any contact with it. While looking over this cemetery of dead dairy stock, the farme
said to me that he had no doubt that the disene said to me that he had no doubt that the disenes
attacking his herd came from the dead animal attacking his herd came from the
buried in hlis pasture, and although the carcasses
were buried deep in the ground hin were buried deep in the ground, his stock roamin diseases from this source. He considered the abatement of the troubles on his building a fence about the burial place so as to keep his herds from
it, a conclusive proof of the truth of this theory. it, a conclusive proof of the truth of this theory. have shown how grass grown over the graves of
cattle dead of this disease and bnried even years, is a source of infection to animals feedin upon it... His discovery points to the agency o earthworms in carrying the germs of deadly bac
teria from buried carcasses to living aftle teria from buried carcasses to living cattle. Hi
obtained earthworms from the soil fillingiain pit int which the carcasses of animals dead from spleni
fever had long before been thrown, and from the iever had long before been thrown, and from the
inteestines of these worms he obtained the means of reproducing the disease in its most virulent form by inoculation. "He showed that the worma by
casting out over the surface earth containng thy casting out over the surface earth containing the
bacteria germs, were the cause for their presenco upon the vegetation which grew upon the spot, and that animals which ate of this vegetation wore a
certainly killed by the germs which they swallowed certainl were those which received the same germs through the prick of the inoculator's needle. ${ }^{\text {p }}$ way why may not others? The result of these in
vestigations vestigations it seems to me is of great practical im portance. From it we may learn that all animal not well understood, should be buried in placea not accessible to healthy cattle, or where the vege
tation growing on the graves cannot be eaten by stock. Farmers not infrequently are very care less in this regard, burying cattle dying of disease stock to range and feed over the graves. I have
no doubt that many farmers in their can now trace the deaths of cattle to this source.-
[Cultivator.

We
We cannot afford to do without it. The girls
are as much interested in it as the boys, and the mother as much as either of
$\mathbf{P}^{\text {eter }}$ Franks, Vellore, Ont.

A Revolution in the Mode of Supplying Meat Consumers.
[from our chicago correspondent.]
Unmistakable signs of the times point to a revolution in the mode of transporting meat from distributing centres to consumers.
Only a few years ago hog packing was confined almost exclusively to the winter months, but impod latterly the generation of cold air by artificial means, have enabled pork packers to operate with heary, fat grunters as well in July as January. So it has been with the growth and development of the dressed beef business. A score of years since it was a regular business at Chicago to send dressed beef from there to other cities, east and west, during cold weather, which would preserve the dead stock until its journey's end was reached. It was then a common thing for the meat to freeze so hard in transportation that its quality was deteriorated, and, of course, with the coming of spring weather, this method of supplying meat consumers had to be abandoned. Art again came to the rescue, and, supply it. Ro by successive improverfition which made to dressed beef operator to land his wares during any month of the year at any distance from the starting point in vastly superior condition to the meat of animals shipped on foot the same distance. The business has been growing so rapidly within the past few years, and is just now meeting with such pronounced success, that handlers of live stock, between the western distributing centres and the eastern consuming markets, are greatly exercised, and, of course, are trotting out all the "stumbling blocks" they can place in the way of that method. Every great reform meets with bitter opposition from those who see in a interests, and it would be strange if this "new de partor supplied with refrigerator beef, but the trade cresupplied wo great commotion until the New York market was invaded a few weeks since by Chicago dressed beef. The butchers then made an "ablebodied howl," but as they could not afford to dress and sell the same quality of beef within 2 c. per 1 lb . of the price at which the refrigerator article afforded a profit, their howls can be of little avail. The railroads, to a large extent, are hostile to the dressed for carcasses as for live animals, and are required for carcasses an
they of course favor the method which gives them the greatest amount of business. Stock yard in-
terests naturally fight the system, but perhaps the most vitter enemies are those engaged in shipping most vitter enemies are those engage in shipping
live stock to, and handling it at, the markets where dressed meats now claim a share of the peo ple's patronage.
A strong argument in favor of the system is the
indisputable fact, that beef which travels one indisputable fact, that beef which travels one
thousand miles in an even temperature after being slaughtered, is far more wholesome than meat from an animal which has been shipped alive that disto such a trip is gone.
It is claimed that the
It is claimed that the horns, hides and offal are worth more in Chicago than New York; hence the
folly of shipping them such a distance. From a folly of shipping them such a distance. From a is incomparably better than the old way, for the animals are saved indescribable tortures by being
slaughtered nearer the grazing grounds or feed lots. slaughtered, nearer is an immense saving in shrinkage, feed bills, yard charges, loss by death, and being crippled, etc
In short,
to their original pastures, the better it is for all hands. It may require many years to make a complete revolution in this business, but the
dressed beef trade is certainly enjoying a "boom" similar to the one which Polled cattle created, and are still keeping up.

Polled Cattle Sales in Scotland-Extraordinary Prices.
[by oun own correspondent.]
Events of great importance to breeders and owners of Polled-Aberdeen or Angus cattle on both sides of the Atlantic, have taken place in Scotland public sales of Polled cattle at Fintray, Montblet. ton, Advie Mains and Cortachy Castle. These sales were looked forward to with great interest, and drew together larger and better companies than were ever seen in this country at any former sales of a similar kind. Canada was well represented, and, as the sequel will show, secured a large share of the "cracks" of the various herds, Mr. Wilken, Waterside-of-Forbes, having made several most valuable purchases for the Hon. W. H. Cochrane, Hillhurst, and the Hon. J. H. Pope, Minister of Agricalure. The qualy and breeding of the 15 superior, but the prices far exceeded the calcu lations quence of the keen demand for Polled cattle which exists in America, the interest in the "blackskins" in this country has quickened, and our home farmers who, a short time ago would have grudged to give more than fifty or sixty guineas for an animal of this breed, are now bidding their hundreds, two hundreds and three hundreds, as freely as ever they offered their fifties or sixties. The excitement at the sales ran high, especially when some represen tative of the Erica, Pride, Mayflower or Rose family was brought into the ring. The question is being frequently asked, how long will the present demand and high prices of Polled cattle continue? In the first instance there is no doubt it is the dethe prices, as there is a comparatively small number of Polled cattle in this country breeders, in view of the large drafts that have gone ccross the Atlantic, have had, as it were in self-defence, to increase the prices so as to prevent their herds from being completely exhausted. The high prices, however, have but stimulated the demand, and al most every day one reads in the newspapers of "more Polled cattle for America." How long is the demand likely to continue? Some people say prices have reached their flood-mark, others that they are yet bound to get higher. Rightly taking advantage of their opportunities, breeders may, in
the meantime at any rate, reap a rich harvest, but the meantime at any rate, reap a rich harvest, but
in the midst of the present excitement they would in the midst of the present excitement they would
do well to bear certain things in mind-that the number of Polled cattle is but small, and that if all the "plums" of their herds are bought up for America, the breed ultimately will, in its native every effort they can te meet the demand which has risen for their stock, and will gradually be brought to the necessity of breeding from animals of a mediocre, or even worse than a mediocre, description. Under such a system no improvement can be expected, and there may indeed be some danger of the breed failing to maintain its former reputation. In times of low prices farmers can af-
ford to market all but the very tops of their cattle which are retained for breeding purposes. In this way a breed may he improved, and it is well. that
breeders at the recent sales seemed to be alive to the necessity o
mens at home.
On Wednesday, 27 th Sept., the entire herd of Fintray, was exposed for sil m . Forbes, Bart., o herd, which numbered twenty-one head, realized an average of $\mathfrak{e 4 8}$, the highest price being 100 gs .,
which Mr. Wa ker paid for a two-year-old heifer named "Flower of the Nile," bred et Rothiemay, which was taken out for Hon. Mr. Pore, This scarcely had time to make itself a name in the country.

On the following day a large company assembled
Montbletton, ner sion of the fine old herd of Polled cattle-it was started nore than half a century ago belonging to the representatives of the late Mr. Robert
Walker. The principal family in the herd were the Mayflowers, from which sprang the herackbere
-one of the best of which, Blackbird II.. is now -one of the best of which, Blackbird II., is now
at Hillhurst-and the Lady Idas, both of which strains have produced noted prize-winners. The
sale took everybody by surprise, the 40 animals sale took everybody by surprise, the 40 animals
sold bringing the hitherto unprecedented average sold 5971 ing the hitherto unprecedented average
of $£ 97 \mathrm{lds}$. Major Gordon A. Doff, of Hatton, who presided at the luncheon, advised breeders in this country to keep the "plums" at home, but he
could hardly have been satisfied with their destination, for the cream of the herd was purchased by
Mr. Wilken, for Hon. M. H. Cochrane. Mr. Wilken bought five azimals for this gentleman for ficent lot includes the highost priced animal at the sale-a massive, grandly-fleshed, six-year-old cow, named Larly Ida II., which was knocked out at 315 guineas-- the highest figure which, up to this time,
had ever been paid for a Polled animal. The cows were an uncommonly grand lot ; as a rule strong, massive, heavily-fleshed animals, with great,
springing ribs, and showing a distinct family likespringing ribs, and showing a distinct family likefollowed at Montbletton. The following is a summary of the sale :

```
l
6 two-year-old heifers
5 one-year-old
2 hulls ......
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## $\frac{10}{40}$

The average realize $£ 9715 \mathrm{~s} .7 \mathrm{~d} \xlongequal{£ 3,911} \overline{\mathrm{5s}}$ herd, which was founded about twenty of Advie by the purchase of Old Rose of Advie, from Sir and which was dispersed on Tuesday, 3rd October, at their highland home in Strathspey, was not so high as the Montbletton average by about £9.
Still, the sale in every respect was a great success. The Roses were the best family, and were eagerly sought after. The herd which belonged to the
representatives of the late Mr. Charles Grant, conrepresentatives of the late Mr. Charles Grant, con-
tained a large infusion of Ballindalloch-Erica blood, tained a large infusion of Ballindalloch Erica blood,
through the use of such sires as Elcho, Whig, Etonian, \&c. The Mains of Advie cattle have for many years taken a leading position in the local
shows, being distinguished for their robustness of shows, beimg distinguished for their robustness of
constitution, wealth of flesh, grand quality and
true breeding true breeding. The cows and heifer-calves in particular were a grand lot. Mr. Wilken purchased
the highest priced animal-May flower 4th-a five year-old of the Rose family, after the famed stock
bull Elcho, the price being 235 g guineas. The fol bull Elcho, the price being 235 guineas. The fol-
lowing summary will show the character of the lowing summar
stock and sale :


Two days after, on Thursday, 5 th, nearly two whose sudden death in America, a short time ago was so much regretted by his countrymen, were
sold by auction, at Cortachy Castle, Forfarshire Some four hundred breeders attended, and, high as the averages and individual prices at Montblet ton and Advie Mains were, they were far sur-
passed here. Fifty-seven animals realized the un passed here. Fifty-seven animals realized the un-
paralled average of $£ 108$ 11s. 5d., while the haraled average of invidual price was 500 guineas. This This is
the largest price ever paid for any animal of this the largest price ever paid for any animal of this
breed, either at public or private sale. The breed, either at public or private sale. The
animal that fetched this extraordinary figure was a four-year-oldc cow named Emerald of Airlie, a member of the far-famed Ballindalloch-Erica family, four of which (two cows, a one-year-old
heifer and a six-months-old heifer calf) realized an average of $£ 38810$ I 10 . Emerald of AAillie was pur
chased by Mr. O. Wallis, Bradley Hall, Northum chased by Mr. O. Wallis, Bradley Hall, Northum-
berland ; Ir. Wilken secured the one-year-old
heiter referred to-a very heiter referred to-a very sweet, evenly-fleshed
youngster-for Hon. Mr. Cochrane, youngster-for Hon. Mr. Cochrane, at 380 guineas.
Sybil ist., of Tillyfour, a member of the Sybil
 teen of the lotos sild pasese the the sthree figures, the sele altogether being of an extraordinary ohat tle. Mr. Wilken purchased two females for Mr.
Cochrane, and five for Mr. Pope. Below I append Cocrane, and five for

22 cows. 22 cows........................
4 two-year-old heifer
8 one-year-old heifers. one-year-old
heifer calves 7 heife
3 bulls

Aberdeen, Oct 16, 1882

## To Halter a Wild Colt

Take a light pole, 10 or 12 feet long, or as long as you can handle to advantage, drive two nails into it about eight inches apart, the first about an inch from the end of the pole, with the heads bent an rope halter, with a running noose, pull th part which slips through the noose back about two feet and hang the part that goes over the head up on the pole between the nails, keeping hold of th dihling part, wian muat be as long as the poil.


The halter is now so spread and hung upon the stick as to be easily put on to the head. If the colt is not excited or frightenea, a so hilter towards him he will reach out hise to smell and examine it, and while he is thus gratify. ing his curiosity you can bring the slack part under his jaw, and raise the pole high enough to bring the halter over and back of the ears, when, by turning the stick half way round,the halter will
drop from it upon the head. This will frighten drop from it upon the head a tittle, and cause him to run away from you, but this will cause the slack part passing back
of the jaw to be tightened, and the colt will thus of the jaw to
be secured.

Sheep and Sheep Industries. That sheep were among the first animals brought to question. The assumption is borne out by the fact that their peculiarity of flocking together,
their easy destruction by wild animals, their timitheir easy destruction by wild animals, their timi-
dity, and at the same time reliance upon those who
care for them, and the ease with which they are herded and driven, their great value, both in flesh and wool, rendering their subjection one of the fo barcestism -all these explain clearly why in the
to birization of the race they have played so importcivilization of the race they have played so import-
ant a part wherever the wild types to which they ant a part wherever
belong may have been found.
So ancient is the domestication of the sheep that
the animal from which they have descended is not the aninal from which they have descended is not
known ; but in scripture Abel is first recorded as known; but in scripture Abel is first recorded as
having been a keeper of sheep; and this is also
the the first record, since no other chronicle goes be-
yond the flood. There is also no reason to doubt that the earliest barbarian tribes - who are always
herdsmen, as distinguished from wild men, who live only by the chase-were keepers of sleep.
And their diverisife character also attests thee
antiquity of their domestication not only as differ. ing from any now known wild type, but as differing
widely in their characteristics
first authentic historical periods.
It is somewhat curious that the wild sheep of Montana (cteristics of the domesticated sheap than some of the so-called wild sheep now bred in confinement as, for instance, the wild sheep of Barbary $(0$. Tragelaphus) resembles a goat still more than does
our own wild species. So far as we can find, the principal varieties of so-called wild sheep now known, besides our own wild sheep of Montana,
are: The Punjaub wild sheep (Ovis Cycloceras) are: The Punjaub wild sheep (how Cycloceras),
belonging to Northern India; the Corsican or Sardiniaus sheep; the European moufflon, as they are
indifferently known (0. Musimon), this variety being found also ini Babary, Crete, the islands Eurone, Asia, and Africa. Then we have the
Argali of Siberia (O. Ammon), and some others more obscure not necessary here to be mentioned Whether the modern sheep really originated from blood of several, is really not now essential 't enow. it would as a physiological fact be inter
esting and it may be here pertinent to state that
it is within the range of possibilities that the wild it is within the range of possibilities that the wild
sheep of Montana may be the true original, since the first land capable of bearing terrestrial life is geologically shown to have been on this continent.
The Chinese are said to have a tradition that they received civilization from this direction. This, wit
the added fact that the remains of a people more ancient than any on earth are so numerous on this continent, as well as those of animals, including
the horse, that it would not be strange if ancien Asia received, with her civilization, from this land domestic animals as well.
The last hundred years have seen more improve ment in sheep than the thousand years that pre the direction of an improved diversity in wool and in the superior quality of the mutton. In other
words, in sheep as in other live stock, breeders words, in sheep as in other live stock, breeders
have ceased to breed for general purposes, but for have ceased to breed
Up to about one hundred years ago, sbeep were
generally bred without reference to particular characteristics, except in a very few cases. One sheep; and until English breeders undertook the breeding of sheep in a scientific way, the sheep of were mongrel varieties, of no fixed type or excellence. Since that time, and especially within
the present century, the breeders of England have given the world mutton and long-wooled sheep o the greatest superiority; a
fine-wooled sub--families of
to any other in the world.
The great Australian continent is the principal competitor in fine wool to be feared, possessing as she does $8,000,000$ sheep, as against our $36,000,000$. The United States, standing first as she does of cattle and swine, and second in the production of horses, comes fourth in the production of sheep.
Besides Australia, with her $80,000,000$ sheep Argentile Republic of South America stands
second with $68,000,000$, and Russia third with $63,000,000$. When, however, we reflect that the South American sheep, and those of Russia, are
not only coarse, but inferior wooled, the producnot only coarse, but inferior wooled, the produc-
tion of valuable wool lies practically between Australia, the British Kingdom, Canada, and the
United States. United States.
What the fu
America, it is not difficult to foresee. The great area of sheep-raising districts in the United States;
the great plains and the valleys of the West and the great plains and the valleys of the of cultivated farms in the Northern States between the Ohio river and the great lakes; the vast and fertile roling prairies on
the West and Northwest, already siling with grain and grass-laden fields, or soon to be; Canada,
a large portion of which is admirably adapted to sheep; and, last, but not least, the great hil
region of the South, with its rich grasses and genial climate. All these, with few exceptions are auapted to both wool and mutton breeds.
Is tirere any reason why, in the next decade, this country should not stand third in the pro
duction of wool, as she now does stand second in the production of valuable wonl, and probably first
in tuee production of heavy fine. wool ? Is there
any reason why the hill rerion of the South shoult not coiu money for its people, by sending early
high prices to the consumer, and at a low cost to high prices to Is there any reason why every intelligent far-
mer may not extend his income through the keep. mer may not extend his income through the keep.
ing of more or less of the long-wooled or mutton breeds, especially adapted to ordinary-sized farms, especially when we know that these bree
be kept in great flocks like the Merino? There are reasons why the first proposition may not be accomplished; such as the greater profits arising from less confining and less venturesome
lines in agriculture in new countries. There is no valid reason, however, why, if every farmer was alive to his interests in the years to come, this
country should not stand, in 1893, as the third country should not stand, in 1893 , as the thind
wool-and-mutton produeing country in the world; or possibly as the second.
To the second proposition it may be answered
that there is no reason why the South should not produce early mutton and valuable fleeces, exeept the fear of danger from a horde of rapacious dogs, and the slowness with which her people adopt
lines of agriculture outside those it has heretofore been incorrectly supposed that country is capable of developing.
To the thirr proposition there is only one answer.
There is no reason why the average farmer should not keep some sheep in connection with his other stock. The reasons why farmers do not more generally keep sheep are various-the principal
one, however, being that the average farmer doees not keep himself posted in what is going on about him in the world. He He takes life easy; sees little of the world; is content to read that class of agri-
cultural papers that are given away with the ad. cultural papers that are given away, with the ad.
vertisements they contain, or sold at a merely
nominal nominal price. Hence, he gets not only ohoap
reading, but information calculated to lead him reading, but informatills yields so bountifully that
astray. The soil he till he takes little or no care of the future, and is content with wheat after wheat, and other grains
after their kind, to be sold off the farm when they after their kind, to be sold off the tarm when they
should be fed. He has heard that the sheep's hoof is golden to the soil; but he does not know why.
Ho has heard that the sheep pays twice; but he does not know how. Yet it is the why and the
how that creates all the wealth of all civilized nations; for the why and the how simply mean
making the most money out of the means at one's command. It should be remembered that the sheep fertilizes the soil whereon it feeds, and that its flesh and wool feeds and clothes many hundrods
of millions of the popul ltion of the earth. This is why the foot of the sheep is so golden, and why the flock pays twice-once in the wool and once in the carcass.-Breeder's Gazette.

## Pig Breeding-Management of Breeding Stock.

The young boar at four to five months old should
be separated from his companions, and be accom. modated with a roomy, warm sty, abutting on a large yard, this latter for exercise, of which and as he cannot be turned out into a grass field without extra precautions as to fencing, and only then when other pigs are absent, a proportionately
large yard is required. His food should be generous in quality, though not profuse in quantity-the object being to produce a healthy, well-grown rame, covered with muscle rather than surplus
fat, which latter is much against his usefulness as a sire. Nor is it desirable to push or force the rowth too rapidly, as if at all disposed to extra young sows, He should be kept as far as possible young so ther pig stock, so as not to induce rest-
from the other lessness, which sometimes militates much ag Gre well-doing and condition of young boars.
Greaterence of opinion prevails as proper age at which he ehould be allowed to mate with sows-some say twelve, others put eighteen thaths when stinted to a few only, and not hardworked, at twelve or fourteen months it will not of prejudicial to him, but the too frequent practice most prejudicial effect both upon sire and offapring; naded, when fully developed, at two to two and a
alf years old, too much service is hurtiul, but be. fore that age it is doubly so. I am aware that manty boars are not kept-to that age, but, after
being used for a year or so, have to make room for another young one. This is not the right way of tured seem to be able to be thoroughly prepotent. There is a question concerning the management
portance, viz. Is the progeny of one sow liable
to be affected by any peculiarities of a sow of dif. ferent whreed or inferior breeding, to which the and if so to what extent?
My own experience leads me to answer the first question in the affirmative. And as it is a subject many, most probably, will hesitate before giving full credence to it, I will, at the risk of extending this paper, "give it at length pigs for breeding, a small paddock close to home was in need of a tenant just as I had the chance to buy a young sow brought direct from the Royal
Farm, Windsor ; so It took the one and bought the Farm, Windsor ; so I took the one and bought so
other, and very shortly after I bought a young sow
carefully selected from the stock of the Earl of carlesmere, bet which the gentleman who selected her could not get to breed. I also purchased a
very good-looking and well-bred boar, by a son of Peacock. All of them were small white pigs of very superior quality. I had the good fortune to ebtain a nice litter from each sow- not one of which
denoted slightest impurity of blood. The best

Nor is this all. A noted breeder called to see plexity. After a greeting, he addressed me. "You know what a black onen; ; well, would you believe it ? every sow I've gott has brought black-and-white pigs. How-
ever can it be? I have never had any but black ever can it be? ( have never had any but black
pigs for years, never saw one before with a white pigs for years, never saw
spot since I had them."
My first thought was." Had interbreeding any.
Mhing to do with it and thing to do with it ? and I asked the question. No, I kept the old boar you know, and the best
of the sows, and they are just the same I bred those grand pigs from.
"Hese you allowed him to serve white sows ?" "Yes, I have done that since I went to- 1 . A
lot of my neighbours have sent to me, and I could lot of my neighbours have sent to me, and I could
not refuse them. You don't mean to say that can account for it !"
I gave my exp
gave my experience to my friend, and he said
No more whit I saw him again some twelve months since that since refusing the use of his, boar he has had no further trouble.-- [W. Goodwin,
Jr., in Live. boar he has had no further t
Jr., in Live. Stock Journal.
these prizes, were not altained without great ex pense and good judgment No. 1 represents the 3 -year-old Devon that carried off the first prize. She is owned by Messrs G. \& A. Wood, of Islington. They are, perhaps, th Ontari. Th b off the pincipal prizes in this clas.
No. pipal pia the cla
解 that carried off the first prize. She is owned by C. C. Brydges of Shanty Bay, who has for year
been selecting and breeding from the best Here fords he could procure. He purchased some fine animals from Mr. Stone, and has imported several very choice animals from England. Such is the cesult of his judgment and care that he has now
No. 3 relion's share of prize ishire sow, the property of J. C. Snell, of Edmonton, who stands high as a breeder of improved Berkshire


gilts I kept, and one or two of the hogs, beat everyease. In due time, both sows (they had littered within a day of each other) were again served by the same boar, but a day or two previously a medi,
cal gentleman in the town, who kept a black sow, cald sent her to visit him without my knowledge. The next time my sows littered both had several pigs with distinct black spots both on hair and
skin, and both litters were in every respect far inskin, and both litters we
ferior to the former ones
Desiring another boar, I went myself down to Worsley, and selected a most promising son of XL, out of a really good sow. I bred both the selected him, in each case with the best results, not one having a spot of any kind. Just about the time
several of these were served the second time, my several of these were served the second time, my
brother sent a young Berkshire sow, which was in company with the boar a day or so. When mine
came to pig, the young were spotted with black in came to pig, the young were spotted with black in
a most disgusting manner, and one had a jet-black a most disgusting manner, and one had a jet-black female is apt to sully a portion of her succeeding
offspring if her first-born has been a cross-bred or offspring if her first-born has been a cross-bred or
of inferior parentage, but never before had so of inferior parentage, but never before had 80
striking an example been apparent of the possi-
bility of striking an example been apparenfuencing his off-
bility of a pure-bred male thus infle
spring.

## Group of Prize Animals at the Late

 Ontario Exhibitions.Every good farmer has one class or more of animals which he deems most profitable. Each class possesses advantages not to be found in others. One is better adapted to one soil or locality, and for a particular purpose, than another. It is for oach good farmer to ascertain the class which is best adapted to his purpose, and when that is decided, to obtain the best in that particular class we have be the aim of the breeder. At sales that we have attended we have noticed that the purchasers of the best stock are principally the most prosperous farmers. This is the case, not-only in farming implements and cattle, but in all other things. An illustration like the one we herewith give will impress on the mind some of the characteristics of the whene to rite if yented, and wiso tet you know where to write if you should of these animals are all breeders of the different classes of stock. The high position to which these gontlemon bave rison, and the obtaining of
pigs and fas having the best in Canada. We presume that the great hog crop of the States this day can be traced to show that Mr. Snell's stock has done quite as much or more to improve it than any other person's stock on this corrtnent. The improved BerkMr. Snell has for a long term of years been ahip ping numerous fin anime of this to the States.
o. 4 represents the first prize two-shear Shrop siice ram, the property of Mr. C. C. Brydges, of shite ram, the property of Mr. C. C. Brydges, of
Slianty Bay. Mr. B. has now a large flock of these valuable sheep.
No. 5 represents a French Merino ram, the property of G. Hood, of Guelph. Mr. Hood claims for this class of sheep that they will produce a better wool and mutton than we can produce from cross consists of a sheep. The best - Cotswold or Leicester ewe The French Merinos are claimed to be much superior to the Ameriean Morine.

No. 6 represents the first prize Oxford ram, over two years old. This animal is the property of H. Arkell, of Arkell P. O. We heard the remark, when passing the sheep pens, that the Oxford were the finest sheep on the ground. For size, handsome form, compactness, and length of wool they really appear forer was a great admirer o the Cotswold, and on his farr. we have seen what we believe to be the largest number of Cotswold in one flock on any one farm that we have visited on this continent. His son is still an a mirer and breeder of the Cotswolds, but has now added the Oxford Downs to his flock.

A South Australian shepherd does not find the
Anda thistle an anmixed evil since it fish

## Garden aud (brchard.

## The James Vick Strawberry,

Of which we give an illustration, is a new variety of strawberry brought out during the past summer. The color is bright scarlet, turning to crimson; surface glazed. The berries average large, and for quantity, quality and beauty the berry is reported to be all that is desirable. It scarcely seems possi the so many berries could grow upon one plant but the engraving shows only a part of what on average plant produced. The berries grow so thickly together that a bee could hardly crawl be tween them. The fruit stems are long and stout, but are unable to sustain the great burden imposed
on them, often 12 to 18 berries being on one fruit stem. It has been pronounced by eminent pomo. $\begin{aligned} & \text { the bulb } \\ & \text { the deay }\end{aligned}$

give vick strawberry.
logists to be one of the most promising strawberries Vick's Magazine says: It's merits as a prolific id profitable strawherry are now pretty well es tablished.

## re briefly

 ter points of merit(1) Fine quality, unusual vigor, and perfect blooms.
(2) Color, form, and firmness of berry, which ap proach the ideal. No white tips; no coxcombs. (3) Ability to stand on vines a week after ripening without becoming soft, or rotting, or losing quality or much lustre. Insteat of sorteng in shrinks a trife and becomes
ripe. (4) Uniformly large size and productiveness uneight berries were counted on one average plant, and from one row, about 100 fees long, nearly two and from of berrise were gathered.
may be removed from the bulh and preserved The new bulb will flower again next season, but arriving at flowering age. They are not sown until arriving at flowering age. They are not sown untid
the second spring, when they may be planted thickly in a bed, and will induce small, slender
plantsts Tuberose bulbs which have flowered will plantste Tuberose bulbs which have flowered will
not flower again, but the offsets may be planted not flower again, but the ofisests may be planced
the next season and succeeding year until the
third when they will bloom. It is thus necessary third, when they will bloom. It is thus neceeseary to procure flowering bulbs for three years before one can grow them ; after that they come in in
succession each year by continuing to plant the off succession for new plants.
sets $\qquad$
The article on the disadvantages of planting deap, in which it is shown that seed should not be covered in any sort of soil with more than five
times its diameter of soil, and that seed buried two feet deep is as safe from germinating as if sealed up in a fruit jar, is well illustrated by the
cuts and phlet entitled "A Revolution in Wheat Culture," sent to applicants by Professor John Hamilton, the
able able manager of farm operations an
the State Colloge, Costre Co., Pona,

Forcina the lidy of the Vaust C., Washington, D. C. © The lilily of the valley. is
very easily forced for winter blooming. To do very easily force for winter blooming, To do
this clumpe flowering roots may be taken now from the bed in the garden and potted or planted in boxes in rich vegetable soil. The plants are put in a cold cellar for two weeks for a new growth
of roots to be made, and then moved into
perature tomperature of $55^{\circ}$ or $60^{\circ}$, and well watered until they bloom. Fine bloom may be procured by setting
the pots on boxes on a shelf over the kitchen range, where they will have bottom heat, and giv. ing them plenty of water. When the flowers ap:
pear the plants may be brought to the window to pear th
color.
WIN
Winter Care or Bulbs.-C. R., Dover, Del. :
The bulbs of gladiolas and tuberose shonld be The bulbs of gladiolns and tuberose should be preservation. The bulbs of gladiolus are new, the old decayed one being seen attached toit. Around be used for propagating now planta. These

Referring to the leading features of the degener
ated agricultural fairs of the period- including
horse-racing, circus perring booths -The Western Farmer remark
that the managers should "advertise them for what they are before inviting the honest indu."
routh "than any other plant that grows." Lambs best of grass.

Our poster and preim list for 1883 aes ready, and will be sent, with the Advocales com pliments, to all who may wish to engage caudable and proitable pastime of subscribers for the leading agres fre sub orion. Ban envas at ance, and scribers. Conme of every good farmer in your neighborhood.

Kitchen Garden for November. This month warns us that winter is approaching, and preparations should be made towards carefull securing all products of the garden that are perish
able by frost. Celery can be put away in trenches, which should be dug as narrow as possible, no more than 10 or 12 inches wide, and of the depth of the height of the celery. The celery is now placed in the trench in a perpendicular position so as to fill it up entirely, the green tops being on a level with the top of the trench. No earth is put to the roots other than what may adhere to them after being dug up. It being packed closely to gethr, there c . It must be gradually covered up from the middle of the month until winter sets in, when it will re quire at least a foot of covering of some light,dry material, hay, straw or leaves. It is importan that the covering should be gradual, for if covered up at once it will prevent the passing of the heat generated by the closely packed mass of celery Covered up in this manner it can be got out with eass during the coldest weather, and with perfect safety. The great difficulty most persons have is from stowing it away and covering it up too early Beets, carrots and cabbages must be dug and se cured this month. Horse radish, salsify and parsips boing entroly hardy and from the danger of their being frozen in the ground the work had better be progressing, All clear ground should be dug or plowed and levelled, so that operations can be begun in spring with as little delay as possible f draning is required, this is the most convenien time to do it. The sashes should be put on the cabbage and lettuce plants on cold nights, but on no account should they be kept on in the daytime, as it is of importance that they should not be mad ender by being drawn up under the sashes. Thes plants are hall hardy and is only killing them Rhabess protecting them from sight freezing with from four to six inches of rough manere ther litter. The crops from beds thus covered will come in earlier and will be stronger than i left uncovered.

## Beech Hedges.

I am a great admirer of hedges, whether intended for use or simply for ornament, and have been
noved to recommend a hedge, no mention of which has appeared in print to my knowledge. This edge is grown by sowing beech-nuts (in the fall sow peas, in a drill. It is better to break the sward slightly with some convenient tool, then to be slightly, not deeply, covered with leaves or straw. If the sprouts of sapling come up too thick, of course they shonld be thinned out, leaving the thanding They grow rapidly, and should be cut hack as other hedges are, for a few years or until the
trunk has sent out a sufficient number of lateral runk has sent out a sufficient number of lateral these branches will be thrown out; not as near the ground, to be sure, as if trimmed, but possibly afficiently low for all practical purposes in turning quainted with the growth of the beech in open land, know how scrubby its growth is, and that it I do not recominend this helge for ornament, for 14 feet. it connot be said to be very handsome, nent, for would I recommend it for cross-fencing; but for a ine fence, which is to be permanent, it is just the
thing-rapid in growth, so hardy that it withchanses, and so tough and stiff in texture that when it has grown to half the size of one's wrist,
the larg'ate, strongest and heaviest beast on the arm canuut break or bend it. The beech helge, when once firmly established,
nd when it begins to die, death will first show its self upon the topmost branches, working slowly own, requiring perhaps years to kill the lower
ones. Sowing the beechnut is comparatively inexpensive process. One a little more expensive is to transplant very small saplings from the woods - which (if they do well, and are not much retarded do equally as well as sowing the nut, and give a hedge sooner, For a permanent hedge, I should
say try beech, either by transrlanting or sowing ay try beech, either by transplanting
the nut.-[C. E. Hewes in Cultivator.

## Petunias for the House

We have several common flowers-by that I mean fowers to be found growing in most gardens-
which give excellent satisfaction in the house which give excellent satisfaction in the house in
winter. Most of these flowers are of the "accom modating" sort, using the word in the sense given it ating" person that he is mean by an "accommoelf to circumstances readily and not feel very circumstances.
Such a flower is the petunia. It has several looming. In the garden it is senerally covered with flowers, and it will do equally as well in the ouse if properly cared for. Another meritorious and the dryness of our usual sitting-room air, and also the low temperature of cold winter nights, when we carelessly let the fire die down. And a
third point in its favor is, no insects ever trouble
It succeeds equally as well as a pot plant, traine to a trellis, or as a plant for basket use, allowed to in a pot with some plant hiving more foliage, as the petunia does-not have a great many leaves to
cover the basket with. But in partnership with cover the basket with. But in partnership with
some plant that furnishes green while it supplies Howers it is very desirable.
For winter blooming lift the plant and the roots an eight or ten-inch pot, cut back the top to weed, leave nothing but stubs. These will send
dean in orth plenty of new shoots and in three weeks you will have flowers on them. If you want a bushy dinary keep the branchen soil and pinche ooccasional waterings
during the winter with some stimulant. Once in during the winter with some stimulant. Once in
two weeks will answer window and remove all flowers as soon as they fade. The single varieties are the best. Cuttings can be rooted by the dozen in March to furnish a
supply for the garden in summer.-[Farmers' Re-
view.

## Fuchsias.

Fuchsias, which have been blooming all summer, Fuchsias, which have been blooming all summer,
should now have a period of rest. Gradually quit
watering them, and set them away in some dry watering them, and set them away in some dry,
shady place for a few weeks when the leaves will shady place Then the woil may be partly washed
drop oft. The
away from the roots, and then replanted in pots of a.way from the roots, and then replanted in pots of
a suitable size in fresh soil, composed largely of suitable size in fresh soil, composed largety of
leaf mould and sand if possible. The plant may
Iso be pruned some, if need be, to lalso moupruned some, if need be, to form a good
shaped bush. Iron scales, to be found around a blacksmith's anvil, may be mixed with the soil to good advantage. Water sparingly at first, until after which the plant should never be allowed to become dry, especially when the flower buds ap-
pear, or they will blast and drop off. The fuchsia
does not require a full sunlight does not require a full sunp offt. The fuchsia
placed back some distance from the window. There are only a few varieties that are good winter
bloomers Marshall are among the best.

Fruit trees procured from the nursery, if not
planted out this fall, should be well heeled-in till spring. Many young trees are lost by doing this ways. If the fine earth is not packed in solid
among all the roots, air crevices will be left, and the roots will dry; and if the mice find their way
into these crevices, they will finish what the dry ing has not tone. The mice may be entirely ex. away from weeds, gra, or litter, and a riilge of about them. Mice will not ascund a smooth, solid

## Window Flowers.

What would our homes be without flowers? adormments. That plants have a charm, is evidenced by the careful way in which they are
watehed, and tended even in windows, where they are frequently crowded in such a way, as to almost
shut out the light Houses should be so designed that we may have a few plants, which under such
circumstances would be a real pleasure to behold The extra cost of say a bay window to a house would not be much, and the amount of enjoyment
which it would afford is beyond measure. It may which it would afford is beyond measure. It may
be asked, what can anyone without a glass struc. bu asked, what can anyone without a glass struc-
ture do to keep up a supply of flowers ? to which
inquiry we reply, he might do a great deal, as there inquiry we reply, he might do a great deal, as there
are many plants that up to near the time at are many plants that up to near the time at
which they come into bloom succeed best out-of-
doors, where they not doors, where they not only come shorter jointed
dond stocky, but are more floriterous the and stocky, but are more floriterous than when
placed under cover.
Take Fuchsias and Pelar. goniums, for instance, which if grown in windows become one-sided and drawn, but which, if placed in suitable spots, the one in partial shade under
the friendly shelter of a wall, and the other in full sun, are always sturdier and finer than they are in any other position. Besides these two there are
hosts of other plants that may be raised from seed hosts of other plants that may be raised from seed
annually or kept as bulbs, and for winter there are pleary of hardy subjectst that are quite equal in ap-
pean to tender exotics. It will be a help to pearance to tender exotics. It will be a help to
many, perhaps, if we enumerate some, and give a
few aged, but the chief point at starting is not to attempt too much, as it is more satisfactory to grow. a gards merit. The great disadvantages under which many labor is not having suitable soil, and yet it is astonishing what results may be attained with even street scrapings, especially if in collecting
them they are largely mixed with the droppings from horses, which, containing as they do so much vegetable matter, help greatly in keeping the
whole open and porous. All that is necessary to whole open and porous. All that is neceessary to
make the compost perfect and suitable for most make the compost perfect and suitable for most
plants are a few nodules of turfy loam and peat,
both of both of which may be obtained at any nursery at a
moderate rate of cost. The mistakes generally made moderate rate of cost. The mistakes eneraraly mare not using sufficient drainage, and filling the pots
too full of soil, but a more frequent complaint too full of soil, but a more frequent complaint,
perhaps, than either is the quantity of water which they give, and the way they allow them to stand in it and drown. More plants are injured and lost in
this way than in any other, as it not only soddens this way than in any other, as it not only soddens
the earth, but causes the roots to decay. Some the earth, but causes the roots to decay. Some
will stand it and enjoy it, but they are only the
few which are half few which are half aquatic in character. Drainage,
then, being such an important matter for the other, the first preliminary to potting is to carry that part of it out properly, which is best done by first placing an oyster shell over the hole, and covering
it to a depth of $z$ inch or so with small cinders or it tharcoal. These will affiord a ready outlet for the water, and if the pots do stand in the little that
drains through at this time of drains through at this time of year it will not be
productive of any gieat harm. In winter, however, productive of any gieat harm. In winter, however,
it should be poured away, or taken out of the saucers by means of a coarse piece of sponge, which
dipped in, soon absorbs the whole without moving the plants. The common enquiry amongst ana to sup how often shall I water? Which leads one with the same regularity as we do our meals ; but instead of this there are so many varying circum-
stances connected with the weather and the var ing state of the atmosiphere, that no set time can
be stated. The amount of leafage too has, and the body oil the re, too, that a plan much to do with the quantity of moisture it will take up, and the instructions therefore in regard to great importance, which is, when water is thiveng of should be sufficient to uet the entire ball, instead of being administered in driblets, as is too
generaly done. A goorl test of a plant's condition
is to try the weight, or will ring, owing to the shrinkage of soil from its
side ; but if wet the sounl will be An experienced person, and one acconstomed to look atter the same plants, soon knows at a glance
whether they want water or not and until the hecessary knowletye is gained it is better to err o
the safe sile then

Cut off top end
Cut off top end of hects, carrots, parsnips, etc.,
and put in dish of moss for winter house plants.
Xou will be pleased.

November, 1882
THF FARMFR'S ADVOCA.TE-

## The farm

Essay on the Most Economical Food \&e., for Hapvest Hands - No. 5.
The matter of cooking for harvest hands is a branch of domestic duty to which the mistress of a farm house is called upon to devote her attention for a short time during every year, and as it is a omewhat arduous undertaking, it requires no small amount of tact and forethought on her part. It is ne of those departints of to bequires at least the supervision, if not the ctual labor, of the mistress or housekeeper
My experience on the subject so far has all gone to show that, in one particular, at least, man differs but very slightly from any other animal that has been brought into servitude ; that is, he works better when he is well fed. It is, in my opinion, poor economy to give men who are working hard all day in the hot sun from early morning till per haps sun-down at night, "just anything that is easiest got," thrown rather than set upon th If you want your workmen to render cheerfu Hervice give them plenty of good, wholesome nourishing food; let them see that you care for their comfort; have your table tidy and keep you dining room as cool and free from flies as possible While everything that is provided should be good of its kind, I would not recommend that much labor or material be spent in making rich cake or any very great variety of pastry. I do not thin this is what is needed in a farm house; it nourishing food that will strengthen the muscle
and repair the waste of the system, which should be found on the table that is surrounded by work ingmen. I think that to almost every meal ther might, as staples, be found something like th following : meat, good bread and butter, biscuit by occasionally substituting for the biscuit
buns or currant loaf. In addition to
variably be potatoes to dinner and at least one other kind of vegetable such as may be in season,
also some one or more of seasonable relishes, such also some one or more of seasonable relishes, suci
as lettuce, cucumber, radish, \&c., and generally some kind of pudding To tea, if desired, a sponge
cake or jelly cake might be added once in a while, cake or jelly cake might be added ouce in a while,
and apple sauce or berries and cream. Breakfast is sometimes varied by having boiled eggs or toast. served with crean and sugar, instead of pudding served with creann and sharg, instead of puading.
While everything should be made good (it is poor economy to make pies and biscuits too tough and hard to be eaten), at the same time any ap proach to "greasiness" in cooking should be rich, light, and flaky, without being greasy, It is a daily repairing and not
human machinery requires.
human machinery requires.
Biscuits and pies should be made at least pass. ably good and then baked in a moderately hot oven.
Mixtures of flour and fat dried, rather tha Mixtures of flour and fat dried, rather thai
baked, in a slow oven, are neither palatable no nourishing. Cold meats, too, should be alway kept in a cool place to prevent the fatty parts be
coming oily. $\underset{\substack{\text { coming oil } \\ \text { I am a }}}{ }$
will am aware that in every household accidents the cooking. The bread may b sour or hard, the biscuits or pies mismanaged, o
the meat badly cooked, but when this state things is the exception and not the rule, they are things is the exception and not the rule,
readily looked over and put up with for once, by
men who possess an ordinary amount of men w
On account of living at a distance from town, the
meat part of our bill of fare consists chiefly of dry salt purk (some summers we have corned beef.)
My plan is to use the hams and shoulders during My plan is to use the hams and shoulders during
the harvest, reserving the fatter parts for the cooler weather, when the men are not working so
hard. We usually have the butcher call once a hard. We usually have the butcher call once a
week, but after first going the rounds of his town week, but after first going the rounds of his town
custoners and then diviving four miles into the
country, his stock, to say the least, is not always country, his stock, to say the least, is not always
attractive, and it is difficult to obtain a good cut attractive, and it is ditficult to obtain a good cut
unless it has been previously ordered.
Sometimes
a nice, ©hange is made by having to dinner a pair
of roast chickens or a chicken pie. Occasionally, of roast chickens or a chicken pie. Ocasionally
too, a lamb is taken from the flock and killed too, a lamb varies the monotony of salt meat somewhat
Usually one half of the lamb is exchanged with Usually one half of the lamb is exchanged with
some neighbor who kills at another time. I find, some neighbor who kills at another time. I find
when the farm hands are not nunerous nor the family large, that half a lamb is quite as much a
can be disposed of, without waste, before the men can be disposed of, without waste, before the
seem to tire of $i t$. Ithink they do tire of lamb or I peefer having cold meat for supper and
mutton soon ther I prefer having cold meat for supper and break
fast. It does not necessitate quite so much work fast. It does not necessitate quite so much work
Apart from that I think it is healthier, and the men appear to relish it better than hot meat a those meals.
I will now of fare for one week. Monday-Breakfast 6 o'clock, a.m., sharp; fried ham, buns, pie, coffee. Lunch, carried to the fiel
at 9 am , hot biscuit, apple pie, cofiee. Dinner a 12 o'llock (punctually), fried bacon cut from the
shoulder, boiled potatoes, baked dry beans, rice shoulder, boiled potatoes, baked dry beans, rice
pudding, currant loaf, tea. Lunch carried to the
field at 4 oclock, pudding, currant loan, tea. Lunch canstard pie,
field at o o'clock, p.m., oold biscuit, custa
coffee. Supper : when the men quit work for the coffee. Supper : when the men quit, work for the
night, cold ham, buns, raspberry pie, sponge cake, night, cold ham, buns, raspberry pie, sponge cake,
tea.
Tuesday-Breakfast (hours for each meal always the same), cold boiled ham, potatoes sliced and warmed, biscuits, apple pie, coffee. Lunch, buns,
currant pastry, coffee. Dinner, fried ham and eggs, potatoes, green peas, apple pie, biscuit, tea
Lunch, hot biscuit, custard peie, coffee. Supper cold ham, currant loaf, apple pie, rasp Wednesday - Breakfast, cold pork, warmed
Wede. potatoes, buns, toast, coffee. Lunch, apple pie reen beans, hot biscuit, baked apples with crean nd sugar, tea. Lunch, currant loar, custard pie coffee. supper, coll she iscuit, apple pie, coffee. Lunch, biscuit, rasp berry pie, cofffee. Dinner, roast beef, potatoe pie with cream, tea. Lunch, apple pie, curran oaf, coffee. Supper, cold cream, tea.
Friday-Breakfast, fried ham, potatoes, buns, apple pie, coffee Lunch, hot biscuit, curran pastry, coffee. Dinner, Irish stew whding, apple
dish of cold pork, potatoes, bread puddin ish or cold pork, potacoes, rasperry pie, coffee
pie, tea. Lunch, biscuit, raspe,
upper, cold pork, apple pie, biscuit, apple sauc, upper, cold pork, apple pie, biscuit, apple sauce
tea. Saturday-Breakfast, fried ham and eggs, pota Soes, buns, apple pie, coffee. Lunch, custard pie currant loaf, coffee. Dinner, hot boiled ham
potatoes, green peas, steamed pudding, buns, tea potatoes, green peas, steamed pudding, buns, tea.
Lunch, currant pastry, apple pie, coffee. Supper,
cold boiled ham, hot biscuit, raspberry pie, jelly cold boiled ham, hot biscuit, raspberry pie, jelly
cake, tea.
No cooking is done on the Sabbath, dinner being previously prepared on the Saturday, giving all
an opportunity to spend the day in rest and deInvariably to every meal there is bread and
Ition. butter,and, as I have before esiaid, at least some one of the many relishes which are to be found in.
almost every farmer's garden during the summer. It is a very difficult matter to lay down any fixed rule as regards a bill of fare, as the providing for each day is more or less dependent one curcum
stances, and every week is not alke. Frequently a change is made by substituting, as I have before said, for some of the fried meat dinners if the first of the week roast chicken or chicken ie, ant on
sometimes having lamb; the beef, too, is not on
all occasions a roast. and in that case, of course, is served up in the most appropriate way ${ }_{\text {Wensens }}$ and at times some other kinds of poultry, but none of it is ever marketed; the whole o the surppus stock sider that their use is extravagant. In fact think it is more economical to use fowls which are raised on the farm with very little expense than o
buy fresh meat, especially when prices rule as high as they have done lately
Oatmeal might sometimes be prepared for break though not exactly bearing on the subject in ques tion, that it is a good plan to stir a few spoonfuls
of oatmeal into the water which the men carry to the field to drink
be unnecessary and consequently not econonical

I think, however, there are some advantages to be
gained by the practice. For one, the farming peralions are all conducted on strictly tempernice principles, which is not always the case where
lunch is not given. Then the men work longe hours, thus getting tirough their work sooner than they otherwise would, and at the same time, whil
working longer hours, they do not do so grudgingly but cheerfully, as though they took a real pleasur in it. I am aware that lunching makes more work rest and recreation which many of our sisters in the cities and towns are enjoying is very tempting nd we almost envy them their ease, yet there is eltain satisfaction in conscientiously perrorning,
to the best of our ability, every known duty of that station in life in which Providence has placed is. A woman may be called upon to work and yet she need or become a mere machine; percommin a daily routine, neither her womanly lessened in consequence. I might say, too, that although the work is hard it does not continue
long, not more than four or five weeks on an ong, not more than four or five weeks on an
average, unless the farm is unusually large, and when they are over we can take to ourselves a ittle well earned rest and recreation In conclusion I would say that nothing should "look well to the ways of her household" in this matter. It is the constant dropping of housel dreeper would do well to choose for her motto the words of our Divine Master when he said to His disciples, thing be lost." Dry bread should be toasted or made into puddings. Stale buns and biscuit, too, can be worked up in the latter way. A nice way to use up dry bread is to soak well in ether sea. son with sage and onion and bake in the same pan
in which the beef is roasting. At the table it is served up with the meat I find most men like this kind of dressing, and it not only uses up the or peat, too, should be saved in a cool place free from flies. When sufficient is collected the whole made into a stew, which, with the dry bread of
the previous day toasted and laid round the edge of the platter, makes a nice dish for dinner, supplemented by cold meat, and in some such way as
this everything should be made to serve some this ever
purpose.

Weeds and their Seeds.
by e. lewis sturtevant, of the n. y. agriculOn September 28th one vigorous Purseley plant
(Portulecala Portuluaca oteracea) conlatse the average branch. let 212 seed capsules, one average seed capsule 75 seeds, thus making for an 2,146,500 seeds.
June 21 st , an
June 21st, an average plant of Shepherd's Purse
(Capsella bursa-pustoris) contained about 1,000 pods, each pod at least 20 seeds, and more bloom
to come. A better specimen showed 2,200 pods to come. A better specimen showed 2,20 pod
and still blooming; a vigorous specimen had 4,400 pods at least, and still blooming. The number of
seeds to a plant may therefore be estimated at seeds to a plant may therefore be estimated a
from 20,000 to 81,000 . A fair sample of Mallow (Malva rotundijolia) had 1,100 blossoms and more to come, each bloom producing 15 seeds ; the esti mate fir Chick-weed (Stata A fair sample of Chick-weed (tellaria media
showed 123 flowers and capsules, showed
produced from 7 to 10 seeds. showed 471 capsules, and many had opened and
fallen. This plant flowers dy fallen. This plant flowers during a very long
season, and the number of seeds upon the plant at one time may be safely estimated at from 1,000 to
4,000 . 4,001 A plant of Corn Speedwell (Veronica arvensis)
showed 43 pods with 90 seeds to a pod. A mor vigorous plant showed 175 pods and about 101 seeds to a pod, another plant had 78 pods, and still another 123 pods. The number of seeds ca
therefore he estimated at from 4,000 to $15,000 \mathrm{t}$ the plant. A specimen of the Thyme-leaved Speedwell (Veromica serpyllij olia) had 142 pods
with about 88 seeds to the fod, or an stinnated numbler of 8,000 seerls. to the plant.
A fair, rather sumallish plant of black mustard,
(simapix ny yra) had alout 120 blowsoms and pods One prd had fifteen seeds; the estimate, therefore, 1800 seeds to the plant.

It does not reguirs a very vigrous dandelion blooms in a aeason, yet eacal head many contain 1 120 Ad firl temple of Curled Dock ( R Rumex crispus), had 9 stems, one stem seleceted as a a average one
 blooms. Alarger plant in the garien had 10 stems
 the malleat 219 whorla. The computed number of geod it it herereforeat least 93.300 .

 total number of seed may therefore be computed a
3,300 .
 nother foower 859 achenees to the fower Oo While often therer is is bat one the tem to s aeed, troquently thero are more, up even to to 23. , ond stem may have is hoome he oumber ot sead ${ }_{8}^{8,000}$ ato
Bo July Bith a fair rtool of Chese or Cheat
 seods 3,78 .
$A$ thit smple of corn Chamomile (Anthemis to a stalk. This plant has from 1 to 10 stalke. The eaded can, thererfore, be computed at from

On July 12 tha a rigorous plantain (Plantagd


 sore 13 Hower giviee. One Ayerages spike contained

The seeding prolificacy of weeds is not so very surprising when we consider that in order to main and to remain as weeds rather than as accidental plants, this fecundity is of the greatest consequence othe species; and that the plants we call weeds have become the select ones, those whose power originally very great, or else great by modifica-
tion. Could select varieties of cultivated plants tion. Could select varieties of cultivated plants
be maintained againt such adverse influences as have been overcome by weds, such a a variety would become of incalculable value to the cultiva
or. Unfortunately, however, quality seems not correlative with resisting power of the species.

## Draining.

oils, and the relation of drainage to them. But very little attention has been given to land glance at our farms in the spring of the year, when
many of them are partially submerged, and the many of them are partially submerged, and the armer, with idle men and teams, is impatiently
waiting for the slow natural drainage of flat land, waiting for the slow natural drainage of hat land,
and the evaporation of the rainfall by heat from
the sun, before he can begin operations, will convince any observing man that the rapid, removalo of he agricultural community.
The practical feasibility of this work is at preent the problem with many. The farmer asks farm thoroughly, and will the probable returns justify the outlay ?" Valid and useful conclusions cannot be arrived at until we have availed our elves of the experience of others, and have of
ained correct ideas of the principles of drainage what thorough drainage is, and what it will accom plish.
It m accruing from drainage which are of actual money en away in the soil, but may be seen by any one which is wet and undrained.
First, there is no failure of crops on account of down among his losses the partial or total failure of several acres of land to produce a crop, because, $\underset{\text { wet. }}{ }$ during

Second, the soil is in condition to receive the
op at the proper season of the year, and it begins hallthy growth at once. This will add many dollars to labor.
Third, the labor which produces a poor crop on ndrained land, will properly drained In this way rops are often doubled on what is called averag Farm land.
Fourth, by reason of the absence of surplus water
the soil, grain and grass are not "heaved " and rozen out in winter time.
Fifth, whatever fertilizing material is put on the eason that the soil is more porous and not surface washed, and fertilizers are at once incorporated in the soil. Undecayed matter put upon the soil de-
cays more rapidly and becomes sooner prepared for the use of plants. Fertilizing gases held in the air are carried by the rain into the soil, making it more ch, instead of being wa.
vapor into the air again.
Other advantages will be mentioned as we proceed farther, but these just named will perhaps be Each season as it comes turns another leaf of the ok of Farm Economy, telling the same story in differen
a mann
ings.
ginds. of land reotiring draitage,
Flat land under cultivation is usually the fir
Flat which directs the farmers attention to draining. A season which is drier than usual shows to
him that such soil, when not too wet, will produce him that such soil, when not too wet, will produce
a crop equal to his best fields. On this land the natural drainage is not rapid enough in the springime to fit it for the growth of plants. It is generto become compact, and in time of drought it shrinks and cracks, resulting in the ruin of the crop and more than loss of the labor; for the soil is in a
worse condition than it was in the sprnig before the plow was started.
Channels or runs through cultivated land often fows down the slopes and oozes from the banks un these runs are so wet that they rarely produce a crop,
ing.
sotrces of water.
Primarily the source of all water of use or in-
ury to the agriculturist is the rain-fall. Considered, however, with reference to drainage, we peak of surface-xater, which rests upon the sura part flowing over and passing off, and the remainder raised by evaporation or used by plants; ooze face and finally rests in some channel or flat land, saturating it until it is unfit for cultivation ; spring vater, which has its source in some one locality of the field, or proceeds from some distant source
through its own channels in the sub-soil. These must be provided for by drainage, according to the nature of the case.
[To be continued.]

Extraordinary Yields of Potatoes.
In reading the crop reports of Ontario, of 1882 , we ure surprised when we see the very great differ of sections immediately adjoining. Even when
we make all reasonable allowance for the ofference that may exist in the soil, the superiority something more. Cultivation and the quality of seed may have been among the causes. In no in the potatoes. The average yield of potatoes in one section is reported as low as eighty bushels per acre, and in the same report the yield is returned as over three times this compared with the for which prizes have been awarded, many instances may be well said to be extraordinary. As ciety awarded prizes for several consecutive year to the person who would raise the greatest quantity of potatoes on an acre. The successful com drea bushels to the acre, and in one instance the yield was over six hundred bushels. It is not at all impossible for any farmer to grow two hundred
bushels an acre as an avorage. Poor crops, such
as eighty or one hundred bushels of potatoes, are
raised by the farmer at a great loss. This should the ground untilled tha grow crops at a loss. Good cultivation, good seed
and a dry and fertile soil will, in an ordinary sea son, produce very profitable potato crops. In
Great Britain a yield of 500 to 600 bushels is fre quently grown, and why not a crop at least ap
proaching to that in Canada. Though extrao proaching to that in Canada. Though extraor
dinary crops of potatoes are grown in the United States under the stimulant of prizes, the general produce throughout the country is very ligh
The United States Agricultural Department fo this year gives the average yield of potatoes to the
acre, throughout the States, as eighty-one bushels

## Teteriuary

SIR, I have lost several malves lotelw first attacked their eyes are heavy, and of a yel lowish cast. They would not eat or drink, resp ration heavy and quick; they would not stand up,
and death occurred in a few hours. Upon making a post mortem examination, I found the covering of the heart and lungs and flesh on the fore-shoulders
inflamed. There was pus ; the flesh felt felt spongy.
Subscriber.
[The symptoms mentioned, also the post mortem
appearances, would indicate an acute attack of ppearances, would indicate an acute attack o
pleurisy, the causes of which are sudden altera tions of temperature, probably a cold rain on the
animals, or a cold night after a hot day violen exercise, such as being chased by dogs, \&c., o
being put into a damp underground cellar stable after a hot day in the sun, or anything that in th
human race would be called "taking a coman." race would be called "taking a heav
cold." The treatment should consist of envelopin the breast and sides of the thorax, that is all over the ribs, in blankets wrung out in hot water, as
hot as can be comfortably borne, covered with a dry rug. It will keep hot pretty nearly an hour Keep it up 6, 8, or 12 hours, then rub in a good over the sides put on a dry blanket, to prevent
taking a chill. Give a saline laxative, say from 3 to 6 ounces of Epsom salts and a little ginger in pint of water, 24 hours, if the animal survives small dose nitrate of potass, say 2 drachms a day, i water. The symptoms, also the post mortem ap pearances, may be so easily mistaken by one un
accustomed to the study of disease, that it would be advisable to call in a properly qualified veter
inary surgeon, if there be a reliable one in the locality. You mention finding pus, but do not say in so short a time. Was it coajulated serum i
the thor in the thorax?

Sir,- What can be done for a cow with caked Sder, and what is the cause of such trouble?
J. S., Aurora, Ont. [Causes: Blows on gland; lying on cold or sharp
stones; leaving the milk unduly long in the bag standing in a current of cold air ; exposure in col showers or inclement weather ; rich milk-making
food too suddenly applied, or indeed any general derangement of the general health is liable to pro-
duce this disease in an animal in full milk. Treat ment: Give the cow, according to size, about pound salts and a little ginger and baking powder.
Foment the bag several times daily with hot brai Foment the bag several times daily with hot bran
and water or hot hops and water, then rub the bag and water or hot hops and water, the
with goose grease or other oil.]

It may not be generally known that the Duke of in the world The extensive tree-planter plantations, says our contemporary Land, in Athole and Dunkeld, and as, of course, they exist have to be planted annually to maintain the woods Indeed, every year the Duke plants from 600,000 o a million trees. During this season a plantation remembered that the Duke of Athole's planay be were thinned of 80,000 trees by the gale which des began operations on a large scale in 1774 , the Dun keld hills were almost bare. During his life the this country, planted $27,000,000$ trees, covering


Time Required for Curing Checse.
It is as difficult to tell the precise time at which a cheese is cured, as it is to name the exact date a which an apple is ripe, or the day when a colt be comes a horse. The curing of a cheese means change from the tough and elastic condition of curc to a tender, inelastio, and plastic stage, and the acquisiton of a new and peculiar avor, and greatly increased case conditions are gradual in their action. They are analogous to those that take place in the ripening fruit, and, like them, may be hurried or retarded by a variety of infliaences
There is no definite length of time in which they mere is on deufinite length of the time may be longer or shorter at the wail be lengthened or diminishel by decreasing or increasing the quantity of rennet
used in curding the milk, by keeping the pressed curd cool or warm, by using much or little salt, by
little or much moisture, and by a scanty or free little or much moisture, and rennet and moisture sparingly, and salt freely, a cheese may be made
that will be three years in reaching its best con dition for the table, or it may, by using rennet an moisture more freely, and salt more sparinglv, with the temperature in both cases the same, number o weeks, or even in the same number of days by little extra exposure to the air in manufacturing,
There is no limit to the time in which the curing may be effected. That it may be, and sometime is, ripened and made ready and in fine condition for the table the moment it is out of the press, We
have been assured is an accomplished fact. Mr have been assured is an accomplished fact. Mr. Ont., and well known also as the recipient of a go medal last year from the Industrial Exposition,
Toronto, for best cheese in the Dominion, has been experimenting the past summer in early curing, and he finds that curd made in the customary way,
that is, at the usual temperature and with the that is, at thal quantity of rennet and salt and moisture, can, by keeping it in a fine condition and well exposed to the summer air, and thoroughly draine the press, be cured fit for the table as soon as it leaves the press, the time being 56 hours from applying rennet to putting in press. curing cheese (ge have ever been apprised of, and seems to be we have ever beena ape desired in that direction. We have before been aware of the great efficiency
of air in developing flavor in cheese, and in hastening the curing process to such an extent that many cheese makers habitually bring out a distant flavor of cheese in their curds, by several hours airing,
after they are generally supposed to be fit for pressing, but have not before known of so much curing to be done in the unpressed curd as to render
it fit for use at once upon coming out of the press it fit for use at once upon coming the form of a cannon ball, and about as hard, is a good specimen of the other extreme in curing. It is best when two or three years old. A chese is considered cured
or ripe when the flavor peculiar to chiese has beor ripe when the flavor peculiar to chese has be-
come well developed.-[ National Live Stock Journal.

Night and Morning Milk.
Dairymen abroad have been experimenting for morning or evening's mess, is the richer of the two. The decision was in favor of the evening's mess be-
ing the richer for both butter and cheese making ing the richer for both butter and cheese making
qualities The milk of cows fed ground feed in quadites are richer than that produced by the same
winter was grass in summer. This is not a matter
cows from grass cows from grass in summer. This is not a matter
of very great moment to the dairyman, though he of very great moment to the dairyman,
should keep posted on all these little points.

It is currently reported that the London and
North-Western Ry., Eng., have made arrangements orapply pilk Many travellers prefer the lacteal supply of milk. Many trage; but we welcome the innovation as a means of promoting dairy huss
bandry on a large scale. The Company, it is said,
have purchased, as a first dratt,
with this stock as a beginning, it is difficult to estimate the quantity the Company propose to sup
ply. The proposal, however, is one of those signs too glad to assist to dovelop.

## Fall Care of Cows.

 Every practical dairyman knows full well the natters not how well the other branches of the airy are cared for; unless the fountain head, the cows themselves, are managed will surely be a deficit in the returns of the dairy at the end of the season. There are several points Suphosing a man to be he proper care of cows. Supposing a man to bein possession of a first-class herd of dairy cows, properly bred, of fine constitutions, and large rich nilkers. The first h hese conditions, breed kept up to the given standard ; but the yield, especially in relation to quantity, is susceptible of yeald at its maximum, there are three cardinal principles to be kept in view : First, the feed,
second, the general handling ; and third, the individual comfort of the cow. In relation to the
frst, it is more a question of quantity of feed than particular adaptability, so far as the cow is concerned, for she is what may be called a gross
feeder, and will consume almost anything that ceder, and wil consume a mit is true that some
comes in her way. While ows refuse many articles of food that are even
wholesome; at the same time, such cows are excep. tions to the rule, for generally they will not only and weeds, and drink water that works destruction in the dairy. The prime question, therefore, in re man must, in deciding this question, be governed by his particular surroundings.
In regard to our second point, the general hand ling of the cows, any one who the difference in their handling. One man with a herd of indif ferent cows as to quality will often get a larg
percentage more in yield than another man with a percen letter herd. This often comes from a
much
superiber degree of handling. Just as one man can superior degree of handling. Just as one man can
drive a fractious trotting horse faster than another. All this is dependent upon the natural adaptability to make the cows yield, there is no use in arguing
he question with him. He is simply not adapted the question with him. He is simply not adapted
to the business, and the sooner he hunts a new occupation the better for both him and the cows. In regard to the third point, the individual com-
fort of the cow. Milk yielding is in some ocult fay connected intimately with the cow's nervous organization. If she is happy, contented and com-
fortable she will do her best, while the least shock fortable she will do her best, while the least shock
to her nervous system upsets the whole business. to her nervous system, upsets the whole business othe shock to the nerves, will reduce the yield of milk in a herd very materially. So the remova, presence, will sometimes peremptorily stop the flow of milk. This is often attributed to the ill will of the cow in "holding up" her milk, bu
doctors tell us of similar results with the human race. A mother receiving suddenly the news of a tragic death in the family, a father, mother or hus
band, will often completely stop the supply of milk, for the litten compe, no matter how anxious the
mother may be to feed it. Another be to feed it.
A cold cow is the picture of misery, and a sure
evidence of no profit. For this reason the cow stable should be got in readiness to receive the in mates the cold nights that come so suddenly an
unawares in the fall. There is no point about the dairy of equal importance to that of keeping the cows well fed and warm.- [Dairyman

What a contrast there is between the advantage of the expenditure this year of the Governmen money granted to the Eastern Dairymen's Associa tion, and the expenditure in connection with the Prorincial Exhibition when held in London. Here a full display of dairy goods and dairy implements view, but actual tests were the goods exposed to of milk by different breeds of cows, and a test of the different qualities of milk, and the operation of making butter and cheese in the latest improved methods. The great favorite, the practical experimenter, writer and lecturer, Professor L. B. Arnola,
was engaged as judge and operator. The dairy
building here who were anxious to profit by the exhibit, and
loarn from so able and honorable an invtructor.

## The apiary.

## Hints for November.

By the time the November number reaches its readers, all colonies should as far as stores are con. ingors of the fast approaching winter; but if any have been so neglectful as to have colonies that are short of food, they should at once supply the deficiency. It will not do to further procrastinate, but full sheets of comb should be given them, or a solution of granulated sugar be fed them. The exact condition of every colony should now be known, at the latest, and weak and queenless colonies broken upand united. The experienced bee-keeper, or breeder of queens, may possibly defer matter, but beginners should not delay an instant, else they may lose all their bees. Active prepara.
tion should now be made to pack the bees and put them in condition to withstand piercing cold and wintry blasts of the next few months.
who have a fit receptacle for inside wintering, may delay putting their hives
cold weather shows itself; ; but those who propose wintering their bees on their summer-stands, should at once put them in that condition which experience has shown to be correct. The plan which 1 have
followed with conplete success, for sixteen winters -have lost but two colonies during that timehas been as follows : I remove all the frames from the hives and clean them out thoroughly, then re-
place the fullest combs in the centre, giving the pees only as many as they can well cover, with at east five pounds of honey to each frame of comb, spreading the combs a little further apart han
they are usually placed in summer, so that the bees may have more room in which to cluster. Place a
division board on each side of the frames, and in division board on each side of the frames, and in put chaff, forest leaves, or some other material of that kind. Ur top of the frames I put, usually, a
thin honey board full of $2 t$ inch holes-but this thin honey board full of $2 \frac{1}{2}$ inch holes-but this
winter I shall use the device of Mr. Hill, of Mount Healthy, Ohio; on this honey board I put a piece of old carpet or some other porous substance, and eaves to the top of the upper story. The entrance is left open about two inches for a strong colony, nd less in proportion for a weak one. By the rom cold winds, and sudden changes in tempera ture, which are the main sources of trouble in out. door wintering. By using a honey board on Hill's
device, a space is left over the top of frames for evice, a space is left over the top of rames for
the bees to pass from one comb to another, and thus winter passages through the comb are avoided. By the use of holes in honey board, or a porous
cover on frames where Hill's device is used, covered over on frames where Hills device is used, covered
by an absorbent of some kind, the air in the hive is kept constantly pure, and free from excess of noisture, without a current of cold air constantly assing through the hive, and without taking away hemselves, and which is found necessary for their existence. The absorbent used should be ex
mined occasionally, and when found to contaia mined occasionally, and when found to contain
any frost or excess of moisture, it should be re moved and replaced with fresh material. An inch
hole bored in each end of the cover, will allow tho ole boed in each end of the cover, will allow the vent its being retained. I cannot warrant the above method to be positively sure with every
colony, as much depends upon the strain of bees as to their wintering qualities, but I can say that I have made successful use of the plan, and shall con tinue to use it as the simplest, easiest and most economical of any I heve e

- [Bee-Keepers' Exchange.

What is gained by the present method of exhib the prizes. A potato may be perfect in shape and he prizes. A potato may be perfect in shape and eye, yet may be poor in quality and also unpro-
ductive. There is no way for the judges to know anything of either the quality or productiveness,
"We would be very unwilling to dispense with
its mouthly visits. Our acientific farmers, of whi $h$ its monthly visits. Our scientific farmers, of whit $h$
we have a very respectable number, all paos the agricultural papers. Yours respettulls, J. Woom.
bøsY, Middioton, N . 8,"


Notice to Corraspongsvis. -1 . Please write on one side of
he paper only. 2. Give full name. Post -Office and Province the paper only. 2. Give full name, Post-0ffice and Province,
not necessarily for publication, but as guarantee of good faith and to enable us to answer by mail when, for any reason, that
course seems desirable. 3. Do not expect anonymious commumications to be noticed. 4. Mark letters "Printers' Manu script," leave open and postage will be only le. per $\frac{1}{2}$ ounce
We do not hold ourselves responsible for the views of corres We do not
pondents.

## Truro, N. S., Exhibition.

Sir,-A few notes on the Agricultural Fair held last week may be of interest. Annapolis and from 2nd to 5th October. The Annapoiis Royal the roads in splendid condition, but the exhibition largely a failure. This was owing to lack of con fidence by the farmers in the Committee, composed mainly of town lawyers, doctors and merchants also to a general lack of interest, as well as dis satisfaction with fairs and judges appointed. The
Windsor and Annapolis Railway gave very inadequate accommodation-no encouragement to exhibitors or visitors.
The apple and potato show was superior to any 1 have seen in Ontario; these counties have world-wide reputation for the quality and quantity market is supplied largely with long-keeping apples from this valley and the Boston, New York and Philadelphia markets depend on Nova Scotia and Prince Edward Island for the finest grades of potatoes. Even in spite of an adverse tariff, the farmers here can ship their potatoes to the American markets and net hand some profits. This Acadian Valley, the land im is, perhaps, the fairest and most productive part of
our wide Dominion. Its salt marshes and dike lands; its vast sylvan orchards on hill and dale and its extensive, highly cultivated potato fields
have fo parallel in Canada, not even in our fair Ontário.
Leaving
Lo witness Annapolis, I arrived in Truro in time to witness the opening ceremonies by Lieut.-Gov,
Archibald, the military and Stellarton brass band
Truro is, I think, the prettiest town in Nova Truro is, I think, the prettiest town in Nova
Scotia, and keeps pace with the times in manufac turing enterprises. The District Exhibition, held here from 3rd to 6th October, comprising the
Counties of Cumberland, Colchester and Hants, was a decided success, for which the courteou Secretary, W. D. Dimock, and the Managing Com mittee, deserve credit.
The horses were
The horses were good; cattle, some choice herd
of Durhams, Ayrshires, Jerseys and Alderneys of Durhams, Ayrshires, Jerseys and Alderneys
sheep and swine rather inferior. The fruit and vegetables were very fine-a large and varied ex-
hibit. The agricultural implements were mostly hibit. The agricultural implements were mostly
from Ontario. Patterson \& Bros., Patterson, and $J$ Fleury, of Aurora, deserve special mention for
plows, \&cc. The ladies' department was well re plows, \&c. The ladies' depa
presented in all its branches.
J. McL., Bridgetown, Nova Scotia. -
if Sir,--Please inform me about two breeds of pigs, White. Some say they are equal, if not superior
to the Berkshire. If so, can you tell me where to the Berkshire. If so, can you tell me where
could get a hoar, as I like a white hog the best.
W. P.
[We are not aware that there are two distinct
breeds. We know that the county of Cheshire breeds. We know that the coun always been noted for its excellent breed of large white pigs. They grow to a large
size and do not begin to fatten till they have done growing, when they put on flesh rapidly. Many the Berkshires because they do not mature so earty, but when the Cueshires are ready or a boar apply to some
our columne.]

Dear SIR, , Looking through October Advocatz,
on page 275.I notice the paragraph about " an old on page 275. I notice the paragraph about "an old
polled cow," and am surprised at the trouble you
have have taken to give your readers the chaif, whil
rejecting the wheat, viz ; rejecting "Old Granni"" lived to the age of thirty-
Tive years, and was even killed by lightning while five years, and was even killed by lightning while
in good health, grazing in an open field ; that she dropped 29 calves, 25 cow calves and 4 bull calves,
one of the latter having been bought for the Queen, one of the latter having been bought for the Queen
-herd. Both bulls and cows are too often sacri-
ficed ficed or rendered useless for breeding purposes
long before they have ever reached their best estate, and before their possible merit as getter
of valuable progeny can be determined ; and this case of "Old Grannie's", prolonged life as a breeder,
if laid before your readers, might have saved many a grand old cow to future herds and usefulness breeder I am often indignant at your remarks on Nabritza 5280 , that weighs from 1500 lhs. to one 1600 lbs. No other breed commands such high prices
in the United States. The last auction sale this month of 75 head averaged over $\$ 600$ in New York,
and the demand for females is 80 great that I am asked to engage my cow calves, at high prices, years in advance. Jersey butter is under steady
contract at $\$ 1$ per lb. I cannot understand how good breeders in Canada have been so slow and so blind as to Jerseys. C. E. B., Yarmouth, N. S. [The stock note about an old polled cow was illustrious record, but to show how affectionately
Mr. W. Watson could write about her. We hop Mr. W. Watson could write about her. We hope
yet to give an illustration of "Old Grannie") yore particulars regarding her. We are not aware of calling Jerseys "rats." The words were "insignificant looking. rats of cattle, as oome of our
farmers call thena." See page 147 of June, 1882 We think a great deal of Jersey cattle, but do not wish our plain, thrifty and enterprising farmers to
pay " wild cat"" prices for Jerseys or Polled Aberwish our
pay "w wi
deens.]

SIR,-I am situated on the main line of the
C. P. R., 60 miles east of Winnipeg, Thunder Bay branch ; timber country here ; disputed territory of Keewatin ; cleared 50 acres last spring, sowed
mostly oats and barley, sample spring wheat and all of which are quite a success. I intend making a 1,000 acre farm; the soil is very promising; mine or many miles east or west. I make preference the woods to the prairie, although I have the stumps to contend with for a time. Bye-and-bye will communicate with you about stump ma, Advocate as a first-class agricultural journal, although there are many things that do not refer to this country, such as artincial manures, \&c.
have been here in Manitoba nine years, and ought to know something about this great country, as certainly it is destined to be. Yours,
W. J., Whitemouth, Man.

Sir,--Permit me to ask the directors of the Western Fair, through your paper, if it is possible When people go for miles, lose time, and pay no small amount of expenses, pay for the privilege to
see what they went for, and find the horse stalls see what they went for, and find the horse stalls
all shut and locked up-if this is going to be the modus operandi for the future, they need not ex.
pect such throngs of visitors, as that sort of fun pect such thrings of visitors, as that sort of fun
is played out. I heard scores of persons (some came long distances on purpose to seek sires for
cheir colt progeny, and make selection for another year) say, that they were tired of being ased in
that that way, and would stay at home in the future. blind to their own interests. They lose a large they had their stables open for inspection. People do not wish to stand around the horserging from
morn till eve in order to get a glimpse of their morn till eve in order to get a glimpse of their
favorite, and then not know any more than before, I have heard direetors say that they have tried to keep the stable doors open, but it could not be
done. Sueh talk is all nonsense, and a false excuse to hide their own annual blundering. Insert in the prize pamphlet-also make it imperative-that
all horse-stall doors must be open for visitors' in spection from the hours of say 11 till 3 o'clock;
this will end the difficulty, and London, as usual, can secure its show visitors somenthing worth nooing.

Mice in Orchards.
SIR,-We are very much annoyed by the depreations of mice in our orchard. Can you prescribe
R. S., Myrtle, Ont. remedy? [Remove all leaves, rubbish and stones from
 the mice to gather under. By turning the sheaves
over the mice will be exposed and can easily bo over the mice will be exposed and can easily be
killed by one or two boys, and tha help of a cat or dog.]
SIR,-Could you advise me which is the most
profitable grape to grow in this section for earlipresitable grape to goaring; also the best time to prune spring or fall ? H. R. S., Toronto, Ont. [For general purposes the Concord grape is con-
sidered the best The proper time to prune the vines is when the sap is well down. The month of Felruary is preferred by many, but the vines
often hleed when the pruning is done during that month.
Sir,-Will you inform me the best place to procure a Southdown ram lamb, with prohable price
of first-rate animal! Also, what are the best worka on sheep raising for a person with limited knowledge and experience, with cost by mail! I I am
sorry to tronble you, but don't know where else to get the infornation. By answering you will
greatly oblige one who is very much interested in greatly oblige one who is very much interessed in
sheep raising. $\quad$ P. W. F. B., Beaver Brook. heep raising. tain a rami, as the best will, ere this, have been selected. be cannot recommend any particular
breeder, but yon will find the advertisements of the leading men in this class in our columns. Youatt
on Sheep, the Shepherd's Manual, and Randall's on Sheep, the Shepherd's Manual, and Randall's Sheep Husbandry are
list in usual columns.]

SIR,-Perhaps you may think the following Sir, - - erhaps you may in ing in your paper $\begin{aligned} & \text { We threshed, on } \\ & \text { worth farm, this year, } 555 \text { bushels of fall wheat from }\end{aligned}$ 14 bushels. It was sown on the flath of theariver.
A. R. F., Nairn P. O., Ont.

SIr,-Does the clover midge work on Alsike the ame as on the common red clover. I I have
seeded down a good deal with Alsike with the intention of raising seed, but if the midge works in it the same as in the red clover I will plough it up. An immediate answer will confer a great
favor.
A. McG., Claude P. O. [We have had no personal knowledge of the
midge in Alsike clover, but the testimony of some American journals is that it does not infest Alsike. Americal bournals is thear from persons who have
We hall be to hear grown this clover ] $\qquad$
Sir, -Are bones beneficial to grape and other
fruit trees? If so, please say how to apply them
A, B. [The application of bones is of great benefit to
fruiit trees. A good plan is to dig a trench about fruit trees. A good plan is to dig a trench about
3 feet from the tree or vine with a sharp spade. This will prune the roots Scatter about a peck of
hones in the trench at a depth of about 12 inches Cover over and trample the earth firm ; old boots or old iron can be disposed of in this manner and
with benefit to the fruit trees, especially peara
and grape vines. and grape vines.]
SIR,---Being a new subscriber, I am well pleased with your paper. I think that there is not a house
not only in Canada, but in any other country, that ought to be without it. I have learned a great deal the only year I have taken it. Hope I shall al
ways be able to get it.
E. W., Carleton West, Ont

One of the finest peach orchards in Ulster County is one owned by a Mr. Donaldson, near Clinton
dale, N. Y. Last spring when he found that the druit buds were killed, he cut every limb back two thirds to two-fourths, making almost "stumps" of the trees. These trees were a mass of green foliage
and wood, and had made such a growth that they were touching each other, being planted ten fee apart each way-in fact, the trees had as large top as those not cut back, and showed three to fout
times the life and vigor.

SIB, - Will you kindly inform me how I can raise
ten or twelve little pigs profitably, mo that they ten or twelve little pigs profitably, , oo that they giving the amount of food, and the cost, they will conssme in a year, also stating how much to feed
Ohem on an average per day. I have no farm, but them on an average per day. I have no farm, bing a littlo sum of moneoy yin live stock and running them on my employer's farm. A Amall bit of
clover pasture would have to be included in the ex penditure during the summer months. Also, could
you inform me if $I$ could proftably invest $\$ 200$ in coutle, mentioning how th eed them and the cost, shoep for breeding purposes ? By answering the above you will obigige. A Surgcribirk, Strathroy
[We have not space at our disposal to answer
 wish. Ir wound require e book to ooso. and buy food to winter them. Better wait till spring, when, theo will live have the clover with the
runt them in, the adidition of f little chopped corn or peas till the
 much proit. It would be imposind the cost, the marketa vary, and the quantity they will consume
will depend on their guided by circumstances Give each pig sufficien to eat and not waste. Ten or twelve pigs is a arge
number for a
hired man to attend to beside hid regular work. If you could get pasture, investin your monesy in gheep would be more proitable an
would not require so much atention. If you could purchase a fow ewes to lomb next spring you wose of next year. It would cost very little to

$$
=
$$

SIR,-Please give me a description of a house for raising early chicks wind aring the 1 want to Have plenty of outdoor run, and can erect a suit Habe pueniling, but want the very best plan there
is for the health of the chicks to be raised. Could is for the health of the chicks to be rased. Could
you also give me a plan of an incubator, or tell me you also give mea p pan of an incubator, or tell me
whereI could get a a suitable one, and any other in wherre
formation necessary for success in in the business.
C. W , Clarksburg
[We are nót in possession of a plan of sucha
 cubator patented, or we believe manuactured in
Canada
Of the working of it we have no know Canada. There are many made in the stan states, but
ledge. Ther We nover heara of any of them proving successul.
II you intend poing into the chicken business on If you intend going into the chicken business
such an oxtensive scale, the cheapest and beest in such an oxtensive seate ill be a quantity of common
cubator you can
hens $A$ Ater they have raised a lot of chickens they
 can be fattened off. It will pay betrer than simk
 ${ }_{\text {failures.] }}^{\text {STR }}$. $A_{A s}$ STR, -As I am desirous of propagating a quan-
tity of red and black currants and concord grape vines for my own planting, would you oblige me
by answering, through the columns of your valuby answering, through the columns of your valu-
able paper, how and when is the best manner and
and atio paper, how and whenting cuttings of
time of petting and treater
and grapes especiall, as I I failed before.
A SUBCRRIBR's' Sov, Auburn, Ont,
[The propagation by cuttings of currants mai [The propagation by cuthings of currants may
be donen at any tim from the falling of the leat tiil
and the plants commence growth in spring. But when
the best results are desired they should be taken the best results are desired they should be taken
off aes soon as the wood is fully ripe. ,eleetgood,
 make the cutting about six inches long, cutting
them off smooth just at the base of the bud. If
 are cot of before seteting, the plant will not pro-
ance to many euckers. The advisability of this
dace so duce so many suckers. The advisabily or this
plan will depend entirely apon the maner in
dit plan will depend ende to be grown, whether
inhich the plants. are to
in tree or ston. If in the former, disbud ; if not, plant them entire. Cuttings planted early in
fall will usually become rooted by the time winter
 the ground from thawing and freezing in winter
The cuttings may be made in the fall, tied in
 tinl sprin. This is also the best way to treat
trapevine cuttings. As the currant is one of the graperine cuttings. As the currant is one of thial
earliest plants to show leaves. the cuttings should
en planted ae early as possible.]

## Marks of a Berkshire Pig.

 DRAR SIR, In your next issue please give us themarks of a pure Berkshire pig? Is the white tip
 on the tail
lige
rThe st
 tail, and an occasional gplash on the arm.... ICB AND SNovr. -Shorr, he former fine and
well dished and broad between the eves.... Exp. - Very clear, rather large, dark hazel or ${ }^{-}$ Ear. -Genen erally almost erect, but sometimes in${ }^{\text {chan }}$ clined forward with advancing age, medium Jowz.- Full and heaty, running well back on Neck.-Short, and broad on top. Harr.- Fine and soft, medium thicknees. KIN.-Smooth and pliable ..................
Hooubre.-Thick and even, broad on top, and deep through chest...................... ${ }^{7}$ sprung, coupling close up to hip. ......... SDE, - eep
tom line
Lam line eil back, and low down on leg, mak.
ing nearly a straight line with lower part of
vide
 back, and holding thickness well down to
hock, cearse $\ldots$.. striain and strong, set wide ${ }^{2}$ apart,
ing good weight.
умм ETRY.-Well proportioned throughout, depending largely on condition............. not over fed


## 100

Sir,--You give your premiums to new and not thing each year to all their subseribers. Please explain why you do not give plants or seeds to all
who take the ADvocatr. [The premiums offered iranther column are not o new subseribers nor to old ones particularly, by in large quantities, thus giving much more s. We give commission, either in cash or pre. niums, to all who aid use in procuriso ntinued the practice of giving premiums to their subscribers. They give them all they can afford in their columns,
whilst-by the other plan-the subscriber pays whilst-by the other plan-the so a useless book.]
Sir,--I enclose a bug that is getting pretty thick

[The insect enclosed is a stripen bug Coren
restis).
To get rid of the pests a bone should be sp.
very two day. 1
SIR,-I see in your advertising columns the "N1." Now, as he asks us sto refer to you and you ask us to mention the Apvocate, Ithought 1 would的 your next, if possible : Ist-Woult the American dictionary come free of duty and all expenses
naid? 2nd. If not, what would the duty be? rd.-If the duty was not paid would it come to ny address or the custom house? $\begin{aligned} & \text { J. H. H., Roseneath, Ont. }\end{aligned}$ [The new A merican dictionary advertised in last
Tonth's issue is published in New York and ar as we are aware, the firm is reliable. There is duty of 15 per cent. on books imported from the United Stateg. The rule is to send you notice
fom the nearest custom house that a book or rom the nearest caston hosecipt of duty, which
parcel will be sent to you or
cours is is mentioued and then your book or parcourse is mentioned, and then your book or
of
parcel will be delivered to you without futher exparcel wi
pense.]

A Sure Preventive of Chicken Cholera Sirb,-Several experiments have been made during the last five years by different parties for tho pur-
pose of preventing the spread of chicken cholera by innoculation or vaccination. We have, during the past two years, vaccinated the fowls in 19 differen yards where the cholera was prevailing badily, and
in each yard we left some common fowis not vac cinated and they all died. But of the two thou sand vacinated only eleven died, although the were in the same yard with those not vacinated, that were all dying daily by the scores. We hav tion ris as effective in preventing cholera among
towis
to vecintion is in in reventing mall-po fowle as vaccination is in preventing small-po. among the human fam
eight day
her system eight days her system will be thoroughly innocu
lated. Then cut off her head and catch all the blood in some vessel; ; then pour the blood out on paper to dry ; a half drop of hood ood is sufficien to vacimate a owh, flock. Catch the fowl you
vaccinate your whole floch wish to vaccinate, and with a pen or knife make
little seratch on the thigh (just enough to draw litle seratch on the thigh (Juat enough to draw
bood. Then moisten a little piece of the paper
with with the dried blood on, and stick it on the
whick chicken's leg where you scrathed it; then che
fowl run, and you need have no fear of chicke fowl run, As the result of my many experimenta
chora chalera.
have now dried blood enough to vacinate, I woul suppose, about ten thousan ptent medicines. I
have no use as I do not tell patent have no use, as
any of yon your read are enough interested in poultry to try this preventive, by writing to me
will send free of charze, enough dried blood d
 result to your many readers.

A correspondent from Fredericton, N. B., ask some questions regarding rape seed and the growth
of rape for sheep. of rape for sheep.
subject next spring.

Canning Enterprise in New Brunswick. D. W. Hoegg \& Co. have put up at Fredericton
$86,0002 \mathrm{lb}$. cans of Indian corn, and ten tons of 86,000es, anas would have put up four times a
tomate and much if the farmers in the vicinity had supplied
the material. Farmers have realized through th the material. Farmers hheir rean. Hoegg \& Co.
factory $\$ 50$ an acre for the corn have aloo put up baked beans. They expended for
labor alone during the canning season $\$ 6,000$. labor alone dring he canning season s6, They propose running their fredericton estabe meate
ment during the winter months in canning meate They will require to use nine tons of beef, dea
weight, or 18,000 lbs. a week, for the four monthe weitgh,
and they expect to pay out for meat and labor and
during that time, siol, 100 . The quantity of meat
the will they will require will represent about 576 head of cattle, and we have no oubt as many animals
fairly good condition can easily be got in York.

An uncredited current article gives this good
advice about washivg A LIGHT WAGOK: "II it comes home muddy it shound be cleaned before putting in the house
venient, but in the end it will pay. There is need of taking it to a creek, and there attack with the old scrub-broom. Take a bucket or two
of water and a a apone and gently wash the top of water and a sponge and gently wash the top
then the bed, and wring out a chamois and wipe 8 on then the bed, and stand on the varnish. Wherever
no water will stan water dries on varnish it will lose its lustre. ${ }^{\text {a }}$
bucket and a
sponge and chamois and feather bucket and a sponege and chamois and feathe
duster are as neecessary adjuncts to a farmer's duster are as neh."

Professor Cook is of opinion that the apiariaias
interest-number of beekeepers, colonies of bees interest-number of beekeepers, colonies of bees, if correctly stated, would surprise even the best inforrectly The North American Association hav appointed a committee to conlect such data. An person wishing til hetp
to Dr. C. C. Miler, Marengo, Ill.

Be sure and read our attractive list of premium to workers in another column. No paper in Canagents.

Frogremsive farming.
Public Test of a Steam Plow.
A few days ago there was a large assembly of prominent agriculturists at Brampton to witness
the publlic testing of what may be called the firs steam plow used in Canada. The implement wa manufactured by Haggert Bros. for the Qu'Appelle Farm Syndicate, and was drawn at the trial by 25 -horse power engine, with a double cylinder built on the same principle as a locomotive, and
can be started at any time, no matter in what position the wheels are, thus giving it a great advantage over the ordinary traction engine with one cylinder. The propelling power of the engin
is obtained by spur and bevel wheels, geared direct from the main shaft to the hind wheels of the engine. The steering is done by the engineer, by pinion on a shaft, around which pass two chains one of which is fastened to each end of the front
axle. There appeared to be no difficulty with the axle. There appeared to be no difficulty with th behind the engine is the water tank and wood tender Behind the tender is the diagonal frame to which the plows are attached. This supported at each o its
depth of the plows. The frame is attached to the engine by a cross chain passing underneath the rows from five to six inches in depth and twelve rows from ine. Although the frame is constructed for only eight plows, the engine is sufficiently powerful to draw twelve or sixteen.
and the land was selected as for ordinary plowing the engine passing up one side and down the othe plows not being attached), and the work was
considered by practical farmers present, including considered by practical farmers present, including Mr. Fraser, the farm manager of the Qu'Appelle
Farm Syndicate, as excellent. The soil was a
stiff heavy clay, and the ground very hard and Farm Syndicate, as excellent. The soil was a
stiff heavy clay, and the ground very hard and
dry, so much so that farmers in the neighborhood dry, so much so that farmers in the neighborhood
are not plowing at all, and Mr. Fraser said that during his five years' residence in the Northwest
he had never found the ground so hard as in this field. The general opinion was that the experithe practicability of a traction engine propelling itself, and doing the work of a number of plows. These implements are doubtless destined to play a
very important part in the rapid settlement of the very important part in the rapid settlement of th
Northwest. The level character of the ground the freedom from stumps and other obstructions, and the fact that very deep plowing is not neces-
sary, all combine to make that country just the sary, all comb
field for them
In England
In England plowing is done in some localities by steam, but they generally use two engines, one a
either end of the field, the plow being drawn by a steel rope. These cost about $\$ 15,000$, while the engine and plow made in Brampton can probably
be sold for about $\$ 3,000$, or one-fifth the price.

Feeding Cottonseed Meal.
As agricultural authorities are advocating the use of cottonseed meal as feed for cattle, and as it is likely to come more or less into use, the follow to the Country Gentleman who claims to have had six years' experience with it, will be valuable : "After several years' feeding, I have found one quart of cottonseed meal-free from husk-one
quart of corn meal, and one of bran, to make the best and safest feed-ration, given twice daily, for
cow in full milk. The husk of cottonseed is indi cow in full milk. The husk of cotconseed is to to cow. When I say bran, I mean either rye or
wheat, but I like rye best. The effect of cottonwheal, meal on the butter is to harden it, to give it a good texture, and a fine, nutty flavor. Linseed
meal has quite the opposite effect, and palm-nut meal has quite the opposite effect, and palm-nut
meal will make the butter soft, and greasy too, meal will make the butter soft, and greasy too,
although it largely increases the butter. But it is
necessary to watch necessary to watch a cow closely when feeding cot
tonseed, and never to give any of it within two tonseed, and never to give any of it within two
months before calving, or within ten days after wards, and then beging gradually. Two ounces a wards, and then begin gradually. Two ounces a
day is quite enough for a calf under six monthh
old, and indeed I have never yet found it of any old, and indeed I have never yet found it of any
advantage to a calf, while it can have corn, and
oats, and bran; I avoid using it for any animal ex-
cept cows, or for fattening a beef animal.
"The EEnglish feeders give as much as 12 pounds "The English feeders give as much as 12 pounds
thay of cottonsed meal to their beeves, but as
this is fed with turnips and straw largely, it might be quite safe to unse this even for a three -year-oldof course gradually leading up to a full ration.
The cake is made at the oil mills in the South, and could no doubt be procured through any of our merchants who have correspondents at Charleston, C., Memphis or New Orleans, where it is made
argely. It comes from the mills in small, flat, oblong cakes, which can be easily broken up and
ground in a common farm mill, or in a country mill where corn in the ear is ground. It costs at the mills $\$ 20$ a ton, and retails at the North at
about $\$ 30$, bags included. It is somewhat surpris ing that in view of the great interest existing in prominently mentioned, but it may be perhaps beause nine tons out of every ten made are shipped to England, where it is very popular for feeding to
fattening cattle, and making 'baby beef' and mutton. early for my experience all this without paying very valuable throughbred cow by an attack of sarget from feeding cottonseed meal in a forcing in the day at two feeds. The effect was to cause the udder to become hard and the milk to cease, and when this trouble was removed by a long Since then, 1 have had occasional trouble from the stupidity of hired men, who, knowing it was rich ood, supposed four quarts would be twice as goo pigs, and killed them very quickly. Finally mixed one ton of meal ( 34 bushels of corn ground),
ton of bran, or wheat sharps, as I could get it ton of bran, or wheat sharps, as of cottonseed neal, very thoroughly on a floor had no trouble Three quarts of the mixture is the regular fee is my dairy season."

What Handling Indicates.
Some butchers say that the quaility of beef can-
not be told by handling the hair and hide of cattle,
or what is commonly known as "handling." Not or what is commonly known as "handling." No
ong since this matter was discussed in our hear ing, and on one side the idea that the hair and hide of a fat animal wore indications of the quality
of flesh they concealed was ridiculed. But on the flesh hand those who have had the most experienc in handling cattle, as strenuously insist that one fesk, carried by beef cattle is the " feel of the hide." The subject, we learn, will be brough orward at the coming Fat Stock Show and prol bly some steps taken to determine in what goo his subject was referred to by Dr. M. G. Ellizey, of Washington, D. C., who suggested that i ould be a move in the right direction for the ag.
ricultural colleges-if there are those connected with them who know how to judge of and describe a beast by "handling", and how to make an in telligibledescription of the carcass when slayghtered
to impart such information to the young nen -to impart such information to the young mee strange how many men have gone wild over
Guenonism, (the milk-mirror theory, when a few
exact observations would have settled the question as common sense ought to have settled it at the
outset. Dr. Eilzey contends that there is neithe oitset. Dr. Eilzey contends that there is netithe the hair on the perineum of the cow and her lacteal glands; but he goes on to say that in the
a:mal kingdom generally, coarseness of structure in one part is rarely, if ever, allied to fineness in ther parts; a coarse, hard skin, and a dense un yielding cellular tissue, has never, we believe, been,
and never will be, found over-lying tender, juicy
and and never will be, found over-lying tender, juicy
marbled sparkling flesh. The general truth of
this statement will never be questioned by those this statement will never be questioned by tho cattle. It may not be persisile to become so skil
It and as to indicate quality to very great exactness but that a knowlege of good quality as indicated hil, ooes not admit of question. The handling qualities of cattle, as described b xpericnced handlers, are said to be good whe
he skin is moderately thick and the flesh the skin is modirat to the touch, springing back
mellow and yieldigg
to its original position when the fingers are removed
after pressure. It is so also with the skin itsel atter pressure. It is so also with the skin itsel
upon taking up between the thumb and fingers;
when relaxed it immediately springs back to its when relaxed it immediately springs back to its
natural position. These conditions-elastic skin natural position. These conditions-elastic skin
and mellow touch-indicate a vigorous flow of good blood. The weight of the abdomen, and (in the
case of dairy cows) large udder naturaly case of dairy cows) large udder naturally draws
the skin closely over the projecting bones of the the skin closely over the projecting bones of the
hips and buttocks, and if it be easily movable and
met mellow over these bones, the cattle are invariably
good handlers ; while if the skin is tight and not good handlers; while if the skin is tight and not
easily movable, or difficult to lift over the hip bones and , buttocks, the animal is not a a good
"handlere," indicatiuc a wealk circulation and an "handler," indicating a weak circulation and an
unthrifty habit. Such animals are not profitable feeders, as compared with good handlers-a fact which experienced feeders and dealers understand; ud it is by such men that the handling qualities
of cattle are tested the most when they are buying stock to fatten. Herein consists a great advantage which improved cattle has over common
stock. The former have been bred to secure these characteristics among others. On proper food
such cattle give much the greatest profit to the such cattle give m.
feeder.-Exchange.

## Cheap Paint.

One of our correspondents enquires for a recipe
for making cheap paint, and we cannot do better for making cheap paint, and exper Kinapps experience as to the durability of paint composed of three parts crude
petroleum and one part linseed oil, with mineral petroleum and one part linseed oil, with mineral
paint for body. Five buildings and considerable fence upon the Iowa Agricultural College Farm
have been painted with this preparation. Upon some of them it has been one year, and thus far it paints, in body, in durability and in retention of color. It is especially adapted to cheap out.
buildings, covered with rough boards. If twenty. five pounds of white lead be added to each handred pounds of mineral paint, the mixture answers
a very excellent purpose for tenement houses very excellent purpose for tenement houses. buald exng covered with this paint, and affirmed
that it made a better covering than pure lead and that it made a better covering than pure lead and
oil. This is doubtless an extreme view. It may oil. This is doubless anderted as a reliable paint however, fairly be considered as a reliable paint
for protection of the fences and the cheaper farm
buildings.

## Threshing Buckwheat.

The members of the Elmira Farmers' Club have been discussing the best way to thresh bnckwheat,
We take the follownd the value of the straw
ing from the Husbandman
President en or twelve acres of buckwher an get it threshed at least cost, I would wait until threshing machine to run it through in the quickest time. Of course, I would draw the buckwheat from the field directly to the thresher, with no
extra handling as in mowing away. This course does not give the best grain, because some must be cracked and, therefore, damaged for flouring, though not hur the work off one's hands in good time, in fairly good order, and at less cost than in any other way."' thresh buckwheat is with flails, and the cost is hut little greater than for machine threshing, perhaps no more when the raised a great deal of buck.
former years I have wheat, and I had some pride in getting the cleanhe field until the straw was well dried. Frosts intervening had the effect to make the stems brit-
tle. With good weather, some time in October, had flails ready, men engaged, all preparation
complete, then in the morning after the surface of thempete, then in the morning atter the surand was dried I had the bunches carefully
the lifted and set in new places loosely on the stubble.
That allowed free circulation of air from bottom to top, so in a short time the bunches will get very fails were kept in motion until at the approach of
ight dampness gathered in the bunches when ight dampness gatherect in the bunches, when
work was suspended to be renewed in like manner the next day if suitable weather followed. I can not ay for a certainty how much grain three flails may
heat out in a short day, but in the hands of skill. ul operators, with the straw thoroughly dry, a
lay's work will not be much less than ful operators, with the straw thoroughly dry, a
day's work will not he much less than a hundreal
bushels, provided the crop is well filled. TThresh
ing in this way insures the cleanest and best pro.

HHE FARMEET゙S ADVOCATH.
November, 1882
dact. Damp bafches, if they happen to appear,
as they surely will when struck by the flicis, are as they surely/ will when struck by the flails, are
thrown aside, but when the work is done by a mochine they go through and dampnees is communicated to other grain, go diminishin,
of flour and impairing quality as well." of fiour and impairing quality as well. which he idvised and use it as an save the buckwheat chaf Being fine and dry it makes one of the best absorbents for this purpose. I find a corn basket
full (1t bushels) will aboorb all the urine from ten cows over night and deep them d dry and clean. I
have made a ractice of saving all of my own and have made a pratictico of aving all of my own and
buying of nmy neighborp of ol.00 per load of 50
baskets, and think it pays well." baskets, and I think it pays well.

Preparing Cattle for Winter. There will necessarily be a great difference in the results between feeding turnips and straw, and ence tell us will build up the tissues rapidly, making the goft parts plump and firm, and the
whoole body warm, no matter what the weather may be. He who relies upon turnips instead of corn meal and cake, consoless himself with the plea that he gets more bulk for his money-more eifleg
than he would get with the concentrated article. For the particular purpose we are directing attention to, viz., the bringing up into good flesh and in the short time that remains, the foods that contain eighty to eighty-five per cent. of water, the remainder being largely woody fibre, will compare
very unfavorably with oats, containing only thirvery unfavorably with oats, containing only thir
teen per cent. of water, while containing about forty per cent. of starch, nearly six per cent. of
oil, and seventeen per cent. of flesh-forming maoil, and seventeen per cent. of flesh-forming ma-
terial ; or, taking the estimate of corn meal, we terial ; or, taking the estimate of corn mea, per
find a like amount of water, or perhaps one per cent. more than in oats, with sixty per cent. of
starch, seven of oil, and eight of flesh-forming material.
Now, the man who, thinking to build cattle up for winter on turnips, containing only ten per cent. of starch and no oil, will make very slow headway
indeed. Preparatory to the coming on of cold indeed. Preparatory to the coming on of cold
weather, cattle require concentrated food, such as is the opposite of being watery and washy. A moment's consideration of the fact that oats or
corn stand in value as seven to one, while the corn stand in value as seven is one,
food value of turnips or carrots is as one hundred and fifty to one, will show that the latter should not be relied upon when strength and flesh need
to be obtained without undue delay. It is intended to show by this statement of the relative value of the articles named, that seven pounds of oats o and fifty pounds of the roots named. These are proper articles for use in connection with grains, this season of the year, taking on such vitality an vigor as will enable it to resist the cold weather o
the winter months on these alone.-[Live-Stock Journal.
Drover and Collie Shepherd Dogs. I have learned by observation a few of the merita driving live stock, and it seems to me they are o sufficient importance to note down and publish. It
England, perhaps chiefly in the central and south England, perr, there is a short-tailed, or stump tailed breed of dogs that has for years, perhaps for centuries, been employed catte, though in frequent instances they ar ing cattle, though in frequent instances they ar
ned in driving sheep. These stump-tailed drove dogs are from twenty to thirty per cent. larger
than the Scotch collies. They are usually black, than the Scotch collies. They are usaaly black,
but frequently have a white stripe in the face, or a white nose, and generally they have white feet as high up as the dewclaws, or migher, wine case these dogs are of a uniform grey color, with short
curly hair, and the black dogs in most cases have smooth hair.
From his greater height as well as weight, the
English drover dog is much better adapted to driv Eng cattle than the smaller Scotch collie. Being ing cattle the short-tailed drover has a better chance to pinch the cattle higher up and further from
their hoofs, by which he is in less danger from their hoofs, by on the head. Moreover his greater weight enables him to "hold fast" in degrees im-
wher possibe to the smaller colide in The drovers are not, perhaps, quite so active in their movements
the collies, but are more effective when driving or posning cattle. Their atump tails, whiek range
rom two to six inches in length only, do not hinder
the dogs in their work. The long brush tails of the dogs in their work. The long brush tails of
the collie dogs (so long that they frequently drag on the ground) are often trodden upon by the cattle
they are driving, in this way causing hindrance they are driving, in this way causing hindrance,
and often laming or maiming the dog just when
his services are most required. As collie dogs are his services are most required. As collie dogs are
much in use at present in western cattle herding, it may be well to take these facts into consideration. For sheep the Scotch collie is a very effective, and higher altitudes for the sake of the sweeter herbage they can gather there, At such and strong. In such contingencies the long brush of the collie
shepherd dog becomes of service in aiding him to shepherd dog becomes of service in aiding him dry
turn around sharp curves. On the high and prairie ranges in Western Kansas and Nebraska, and in all localities where sheep can be most pro-
fitably fitably raised and subsisted, there the Scotch collie
work and most suitable place for the dog. But on the lower and richer lands in the valleys of England and in America, and on the rich
bottom and bench-land pastures of the West and bottom and bench-land pastures of the
Far West, the old-time English drover dog would be the most effective, and therefore the best dog to assist in penning, or driving cattle from on
to another.-[J. W. Clarke in Cultivator.

Sulky Plows, Etc.
Waldo F. Brown, writing to the Rural New Yorker, says that during the last few years the attention of manufactnrers has been directed to ridbeen introduced. Most of them carry the plow directly under the sulky and between the wheels, but to the side of the sulky, it running on the land with the horses attached directly to the beam of the plow, and drawing the sulky by the plow. By
means of this arrangement the plow does not need to be taken out of the ground at the corners of the land, for it pivots round on the point. This plow does excellent work, and can be managed by a boy
or anyone who can drive a team, as there is no lift. ing at all. I have never seen a' plow that equalled it for turning under a heavy growth of clover or other green crops. It is furnished with rolling cut-
ter and weed hook, and I have seen green boom corn stalks 10 feet high turned under completely by it. I know of one other plow manufactured at taking the plow out of the ground. but with this the plow is under and between the wheels of the sulky. A firm at another Ohio town make a sulky
to which any ordinary plow can be attached, but I have never seen it work. The $\begin{aligned} & \text {, ork has a } \\ & \text { pivot axle, so that the wheel which runs in the }\end{aligned}$ furrow leans, but an intelligent dealer in my vil. that it is too complicated for an ordinary farmer to keep properly adjusted. I am convinced that we have sulky plows of as light or lighter draft, even
with the weight of a man added, than an ordinary plow cutting a furrow of the same size, for the weight of the plow being carried by the wheels why the farmer should not ride the plow if he wishes to do so, and bal
come into general use.

Mr. Edward M. Teall, Stockbridge, Mass., is
nother "thorough believer in and admirer of Jersey cattle" who is "heartily disgusted" with ing from fourteen pounds per week all the way up oo a score or more. For one, he wants to know yield persistently given under a prudent, judiciou system of keep. "Let us," he concludes in the
Breeder's Gazette, "have some rules regulating future,
oath."

Of Soja hispida, or the Japanese Bean, "pro vegetable kingdom," Dr. Sturterant says that it was, on the first of the month, three feet tall, of
luxuriant foliage and crowded with small pods containing from one to three beans each,
and bloom still forming. to afford much promise;
asogtable to the palato.

A Little Farm Well Tilled
During the summer and fall, on the London Market Square may be seen Mr. Abel Steel and his boy seated on an immense wagon box, well
filled with the vegetables of the season. He is well known to the Directors of the Western Fair and all the surrounding county fairs, where he never ex hibits his mammoth specimens without getting a host of prizes. At the late Western Mr. Steele took ten frst prizes out of fourteen entries. His
farm, situated in Lobo, near Melrose, cortains only fifty acres, part of which he keeps in bush so as to upply himself with firewood and fencing timber He also reserves a portion for hay, pasture an
cereals. The remainder he cultivates for vege ereals. The remainder he cule, years ago, con
tables. When Mr. Steele, few templated the purchase of this small farm, some f his friends advised him to tamarac swamp. Mr with it, as it was nearly all a tamarac swamp. Mo this stamp-a thick alluvial deposit of unsurpassed counted for, but a large track thereof would almos puzzle a geologist to analyze. Mr. Steele affirma that after digging three feet down in some place he comes on apparently decayed vegetable and animal matter. To this, together with the adop tion of a thorough system of drainage, he attributes
his secret of success. As he keeps day and date for everything he does on the farm, the following will show the operations or net returns for the season so far: Total number of acres plowed
twenty-five, from which he took 21,000 cabbages 4,000 cauli-flowers, 800 bushels of potatoes, 1,000 head of celery, 1,000 melons, 130 bushels of wheat, 180 bushels of barley, 140 bushels of oats, 1,200
dozen cobs of corn, 150 bushels of onions, 150 buzhels of tomatoes, also carrots, turnips, \&c., say 300 bushels, and three tons of hay. Besides, he keeps a number of cattle, pigs and poultry. His
hired help averages one and a half hands all the year around. His family is small, but they
yis year arally asist him. His cabbage crop alone will
material
net lim nearly $\$ 1,500$. The total value of his crop net him nearly $\$ 1,500$. The total value of his crop
is $\$ 3,000$, besides a quantity of live stock he will have for sale. This shows what good management, earnest application and sterling industry can do on
"a small farm well tilled."

## Cane Sugar in Ontario.

It is said that a gentleman who has managed a Cuban sugar plantation for several years, is about to start a large plantation and mill in the County placed in the mill is about $\$ 10,000$, and that the best machinery is to be used in making Muscovado sugar. Sorghum sugar cane, which is cultivated
ta so barge an extent in the Western and Southto so large an extent western states can be brought to equal perfection
in this Province. In Essex almost every farm has its patch of sugar cane, varying from one acre to
three or four acres in extent. There are several kinds grown, but the most in favor is the Early Amber, yielding, as it it does, about 300 gallons of machinery, merely two rollers, in crushing the cane, after hich the juice is boiled into syrup. ine sugar produced in this way is said to be equal
in qualiy to that of Illinois. In that region some sensation has been caused this season by the
success of the sugar works carried on at success of the sugar works carried on at
Champaign. These works are now said to be
turning out daily "six crystallizing wagons of turning out daily "six crystallizing wagons of
simple sugar, or melada, of fifteen hundred pounds eachle sugar, or melacia, of firlds dry sugar, of a specified quality, 40 per cent., and 60 per cent., of course, of syrup, weighing from nine to ten pounds to the gallon.
The grocers have the sugar for sale as common as apples or corn or flour, or other agricultural products of the couutry. The sugar is very light in color, though not quite white, free from the im
purities often found in foreign sugar, tolerably dry, acking in the rank taste common to most sugars that have not been refine every desirable coking purposes it appears to possess every desirable quality.
Many would prefer it to a dry sugar, having hard
arys. crystals, as it is sweeter to the taste, being more
soluble. The sugar of Ontario production is of a soluble. The sugar of Ontario production is of a
quality not inferior to the above. If what is now said of the production in Essex be borne oot, we sare on the eve of a fresh and ver
arolopment of our hoone roseurcos,

## Farming for Boys,

sy the author of ten acbes exodeh.

## chapter vili.

Never kill the Birds.-Pets of all Kinds.- What Onderdraining means.- More Horseradixh.-
Encouraging the Boys.
From this poiut of observation they moved off to he garden, where they found everything in such Benny, who did not fail to point out to his pupils il the strong features of its management, comparing them with the miserably neglected condition
of their own garden. Every fruit-tree had an old crook-necked squash hung upon it, far out of harm's way, pierced with a hole for a bird's nest. Mr. ly of accommodation for the birds, for, addressng himself to the Spanglers, he called their especial attention to the subject. "Do you see,
boys," said he, "how the birds are building in all boys, said he, how the eirds are building in all
theses equashes? They are my journeymen insect.
eaters. Do you know that these birds destroy milions of worms and bugs and millers, which prey nould fruits and flowers of the farm and garden?
con do without them, as, if I had no birds should have no fruit. I have tried it for myself, countries, where they attend to small matters of this kind much more attentively than we do here. Well, in a single department in France that has been known to destroy three successive harests, each worth nearly a million of dollars. In portions of Germany, other insects have destroyed Prussia once ordered all the sparrows killed beause they ate his cherries; but two years afteroured by caterpillars. It was the same thing in Hungary, when the sparrows were generally des. troyed; the insects, having no enemies, multiplied
so fast that they consumed so much of the crops that laws were made forbidding the destruction of the birds. We shall have the same ruin here if we allow our small birds to be killed as everybody is
now killing them. If we are to do without birds, we must make up our minds to go without fruit. This is the reason why every tree in my garden ot even an owl, for an owl is one of the farmer's best friends-better than a dozen cats about the barn. He is the sharpest mouse-trap that can be set, because he goes about after the mice, while to walk in. Even the common buzzard, that every
fool shoots when he can, will eat up six thousand field mice annually -and how much grain would that nnmber consume, or how many apple-trees
would they nibble to death? No, no, boys, never kill the birds. Don't even drive them away, but coax them about you in flocks. It
do without them than to have them.
On coming out of the garden, Mr. Allen led them into the open yard corn cribs. Thete was a great flock of pigeons picking up the remains of the noonday peeding which had been thrown to them. The Spanglers
were delighted, and examined the pigeons atten. tively, but could not discover that they were any better than their own. The proprietorship of pigs
and pigeons had already produced the good effects ing them to compare one thing with another.
"Now," said Mr. Allen to Uncle Benny, " these "Now," said Mr. Allen to Uncle Benny, "these
all belong to my boys. They began with only two all belong to my boys. They began with only two
pairs of , birds, and you see to what they have grown."
"How
"How many of them do you sell every year ?" in-
uired Tony of the Allens, in a tone too low for quired Tony of the
the others to hear.
"Thirty dollars' worth of squabs," he answered,
'and some seasons a good many pairs of old birds and some seasons a good many pairs of old birds
besides what we eat up ourselves.".
"But who finds the corn ?" inquired Tony, bearing in mind the bargain whicb Spangler had im-
posed upon them when consenting to his boys proposed upon them when consenting to his boys pro-
curing ,pigeons.
"0," said he, "father finds it, but I'll show directly how we pay for it."
In aditition to the pigeons there was a large collection of fine poultry, with a dozen broods of dif
ferent ages, some just hatched out, the little fellows running round the coops in which the mothers were confined. There was also a flock of tur
keys moving slowly about, with all the gravity keys moving slowly about, with all the gravity
peouliar to that bird. Unolo Remay made up hie
mind he had never seen a more inviting dinner
party than those would very soon make. party than those would very soon make.
From the poultry yard they wandered all ove the farm. Everything was kept in the nicest briers fringed fences, nor was a broken post or rail to be seen. The fencing had been made in the best manner in the first place, and would therefore las
a lifetime. The winter grain stood up thick and rank, showing that the ground was in good heart. The corn had been planted, and in fact all the ur-
gent spring work had been done Mr gent spring work had been done, Mr. Allen hav
ing so managed it as to be ahead with whatever he had undertaken. Great piles of manure, with marr
intermixed, were scattered about several fields intermixed, were scattered about several fields,
ready to be used on crops that would be put in at a later day. The springing grass on the mowin ground showed that it had been top-dressed with manure the preceding fall, and that the grass
roots had been all winter drinking up the rich juices which the rain and melting snow had ex tracted and carried down directly into their eve open mouths. Everything about the farm showe
marks of its being in the hands of a thorough man marks of its being in the hands of a thorough man,
who, in addition to understanding his business, had an eye to neatness, taste and economy.
Uncle Benny was impressed with the ness of all that he saw. He called the attention of his pupils to the remarkable difference between the practice of Mr. Allen and Mr. Spangler, stopping
repeatedly to explain, and enter into minute particulars. The results were so manif.stly superior to
any they had witnessed at home that they did no any they had witnessed at home, that they did no
fail to a ppreciate them. The old man's effort wa to make them understand why it was that results
should differ so widely. He told them the soil of the two farms was exactly similar, one farm, naturally
being as being as good as tho other.
together in the mode of management. Mr. Alle manufactured all the manure he could, and bought quantities of fertilizers. He sold some hay, be
cause he produced more than he could use but his straw was all worked up on the farm. He was quite as likely to set fire to his dwelling-house as to burn
a pile of corn-stalks On the a pile of corn-stakik. On the other hand, Mr
Spangler took no pains to accumulate manure Spangler took no pains to accumulate manure,
neither did he purchase any ; but even what he did collect was spoilt by the deluge of rains that
carried off all its stimulating juices into the highcarried off all its stimulating juices into the high
way. As to selling hay he had scarcely enough for
his own use, while more than once he burnt up his own use, while more than once he burnt up a
whole crop of corn stalks. Thus, while one farm whole crop of corn stalks. Thus, while one farm
was growing richer every year the other was grow was growing richer every year the other was grow-
ingerently they came to a beautiful meadow of at least ten acres, through the centre of which ran a wotom. After they came up to the bank the Spanglers observed an earthen pipe projecting
from the opposite bank, and sprouting forth from the opposite bank, and sprouting forth a
strong jet of water. Proceeding farther they
noticed another, and then another still. In fact they saw them, sticking out all along the course o
the ditch, about thirty feet apart. Every one of the ditch, about thirty feet apart. Every one of
them was discharging more or less water. As they had never seen such things before, Tony inquired
what they were. what they were.
"These are u
You know I showed the other day what surface drains were-now you see
Those pipes are called tiles."
"But where does all the water come from that "Come from " We pyem "" inquired Joo. -above, below and around the drains," replied Uncle benny. "When a rain falls, it soaks its
way down through the earth, that is all that the earth don't require, and finds its way into
the underdrains, and then runs off as you see Then the water which rises from the springs under this meadow finds its way alsoo into the drains, and
is carried off like the surplus rain-water. If it were is carried off like the surplus rain-water. If it were
not for these drains the land would be so waterlogged that nothing but wild grasses and aquatic plants would grow on it ; but now you see it i father's meadow now filled with ferns and skunk root, were drained as this is, it would be quite aa productive."
"Quite as good," added Mr. Allen. "This meadow was as foul and worthless as Mr. Spangler's
when I began to underdrain. I never spent any money that paid me half as well as the money 1
have laid out in underdraining. It cost me about have laid out in underdraining. it cost me abou land Tis thousand dollars the better for it-in fact
it was gopd for nothing as it lay a f few years ago.
and it was gopd for nothing as it lay a few years ago.
All the water you ase pouring out of these drains
waf farmarty rotainad in the ground. It in juat
much more than the land required. Now it has exctly enough, and it is the difference between
enough and too much that converts a meadow in. bog, or bog into a meadow. He then led them to the upper end of the mea-
dow, where the ground was higher and drier, ow, where the ground was higher and drier,
though it had algo been underdrained. Here wera three acres set with horseradish. The harrow had
just been run over the field between the rows, and ast been run over the field between the rows, and
the green tops were peeping here and there above the green tops were peeping here and there above
the surface. Uncle Benny had travelled all the
world over, and, as he was sometimes disposed to world over, and, as he was sometimes disposed to
think, had seen everything there was in it. But he admitted that here was a thing new even to him; he had never stumbled on a three-acre field of the boys, who knew nothing more of the cultivation of the plant than seeing a few roots growing on the gite of the dirty gutter at home, while they were The boys wandered some few paces away, and he Spanglers were examining the three acres with
close attention, when one of the Allens exclaimed, That's our acre-we take care of
This piece of information was very satisfactory the Spanglers. They had been wanting to know Whether out of their rived crib or their father's.
Just then Mr. Allen and Unite Just then Mr. Allen and Uncle Benny came up,
and the former said, " now this outside acre belongs to my boys and their sister. They take the whole care of it except harrowing the ground, hut
doing the hoeing, weeding and harvesting, their oing the hoeing, weeding and harresting, their
sister helping them to wash it and get it ready for market. I think it right to give them a chance
to do something for themselves. I remember when was a poor roy, that a very mean one was af. ome kind of a beginning. All the money this acre produces belongs to them. ithey keep regular acwith the plowing, cultivating, and also with what we estimate their pigeons will consume. All the oney produced from these two sources, after de-
ducting expenses, belongs to them, and II put the nost of it out for them as an investment, where it increases a little every year, and will be a snng
capital for them to begin life with. I think it is he best inve.
[To be continued.]

## How Man is Constructed.

The average weight of an adult man is 140 The average weight of a skeleton is about 14 Number of bones, 240
The skeleton measures 1 inch less than the living The average weight of the brain of a man is 8
pounds 8 ounces ; of a woman, 2 pounds The brain a man exceeds twice that of any ther animal. The average height of an Englishman
inches ; of a Belgian, 5 feet 6 ag inchea.
The average weight of an Englishman is 150 pounds; of
130 pounds.
A man breathes about 20 times in a minute, or A man breathes about 18 pints of air in a minute A man breathes about 18 pints of al
or upwards of 7 hogsheads in a day.
A man gives off 4.08 per cent. carbonic gas of che air he respires ; respires 19,668 cubic feot of
arbonic acid gas in 24 hours, equal to 125 cubic A man annually
A man annually contributes to vegetation 124 The average of the pulse in infancy is 120 per pulse of females is more frequent than that of
$\qquad$ A Pennsylvania gorrespondent of Farm and Fire. so reports a neighbor as having kept "soven
cows and calves" the whole season on two acres of land by the soiling system. "He sowed rye on
rich soil adjoining his barnyard, early last autumn nowed rye till the clover was ready, and he has
corn drilled ready for use when the clover is too old fer voiling.


The efousitold.
Meat Pies, and How to Make Them.
Most of us will agree with Sam Weller that whole family of meat pies are equally delicious, Whole fanng the crust is properly made, the meat
pudiciously seasoned, and the pie thoroughly baked judiciously seasoned, and the pie thoroughly baked

- the three essentials in their manufacture; and -the three essentials in hou fial in one you might almos as well break
if youn in all of them. Does not your mouth water at the thought of a hot pie of beef-steak, rabbit, chicken or mutton and kidney on a cold day in
winter ; and is not a cold one of veal and ham equally acceptable in summer time?
I am here speaking of pies made in dishes only, as the raised ones require somewhat different treat-
ment ; and $I$ trust that the following hints will be of service to amateurs in this branch of cookery, as the modus operandi is really very simple. justify me in giving recipes here for their manufacture. I will say, however, that I prefer "short orust" to any other for meat pies, and atter that
the "half-flaky," or "rough puff," for the simple reason that rich puff pastry should only be served
in small quantities, and lovers of meat pie always in small quantities, and lovers of meat pie always
feel inclined to follow the example of Oliver Twist and ask for more.
and ask for more.
With regard to the meat, my directions are brief and simple-viz., always partially cook by stewing
slowly, and let it become cold. Before covering resowly, and from the surface, and take out some of the gravy, which can be re-heated and served
with the pie; for if the cover is laid on over a dish full of gravy it will bubble up in the baking, and cause the crust to present a sodden, unappetising appearance, resulting in the waste of a great por-
tion of it, for only the top layer, as I may term it, tion of it, for only the top layer, as may term
would, under these circumstances, be eatable. Now, gravy is a great stumbling-block in way of many so-called cooks ; for a careless, indisa dash of cold water, and Hey presto! the thing is a done, so they think. Now don't take it for granted that, I am about to recommend an extravagant pur-
chase of gravy-beef-nothing of the kind; but I will chase of gravy-beef-nothing of the kind; but I wil
ask you to remember that different kinds of meat require different treatment. For instance, good beef-steak yields rich gravy that only needs care
ful thickening and seasoning, and the addition of al little sauce- Yorkshire relish or something simi-lar-with a spoonful of browning, not forgetting a pinch of dried mixed herbs, a bottle of which should
be in every house; for, besides imparting to the pie be in every house ; for, besides imparting to the pie
an additional delicious flavor of their own, they
bring out to the full that of the meat, game or bring out to the full that of the
poultry of which it is composed.
poultry of which it is composed.
A little piece of Kidney is a great improvement
to nutton pies, and by all means use stock instead to nutton pies, and by all means use stock instead
of water for the gravy, not forgetting that a drop or two of vineg
der. ${ }^{\text {der }}$ Milt, arich the melt, as it is commonly called, will nion first fried and then stewed with a the meat nd while a whole volume might be written on the o the dish. And bear in mind, when making a pie than one to be cut into while hot, and that no amount of addect seasoning after the pie is baked will make up for an ins, of the various ingredients that will result in a perfect whole. Take care that your crust is of uniform thickness,
not too soft, and smoothly made : also that it fits not too soft, and smoothy made; also that it fits crack and fall in the baking; and please add enough salt to cover a sixpence
Let the inner strip of crust be only just wide Let the inner strip of crust
enough to cover the edge of the dish; for if cut ir-
reguarly and allowed to slip into the gravy it will regularly an
ie spoiied

Make a couple of incisions with the point of
knif in the top of the eipe, or the steam to escape
then orne then ornament it according to fancy with the rem
nants of crust, which may be made into a plait o nants of arust, winch may
twisted and laid round the pie near the edge; or $A$ wreath of small leaves overlapping each other, with
he
he dition of
nice centre ornament
and
a few
 $\underset{\substack{\text { respect. } \\ \text { Now }}}{ }$ Now for the baking. Well, on this point I can.
not give explicit instructions as to time I can only
 sersone aloout an hour and a half, more or less,
pecording to the heat of your oven and the thick; according to the heat of your oven and hot enough
nesson your roust The oven must te ho
to fetch up the latter, but by no means fierce, or ness of your crise later, but by no means fierce, or
to fetch up the
the pie will he brown before it is half baked then
 to cook it thoroughly; and if it becomes too brown
before it is done cover it with $a$ thick sheet of paper ; and if not dark enough, an extra flash o
hana teat the last ten minutes or so will inishnt bopera
tion. But experience and that only, must ye your ginid; for no amount of reading without practical
kinowledge ever did, or ever will, teach the art of knowileg ge ever did,
cooking any anybdy
And it by chance
And if by chance a cook, to whom my directions at least ratifify my statementst that in nine houses
out of ten anm middleclass familes a properly out of ten among midade-class f faxiines a properly
made meat pie is an unknown luxur. A cold meat pie should be set upon a meat dis
which has been laid a spotless serviette, and on which has been laid a spotless serviette, and
then surrounded with a border of fresh parsley thus pleasing the palate through the eye May I end my paper with a word of practical in
struction? viz., that if you fail in this or any simi struction? viz,, that if you fail in this or any simi-
lar task, try and ascertain the reason of failure for depend uano it the remedy is never far off when
the want is clearly seen.-[Lizzie Heritage in Cas the want is cle
sel's Magaine.

## Cheerful Rooms.

We are so influenced by our surroundings that it is very desirabie they should be as ppeasant as pos
sible. It is not always in the power of the house mother to live in the locality she prefers or to
change its features to suit her tastes, but she ma so furnish and arrange the interior, of her house
that tit shall be charming and restful. The charm that it shall be charming and restrul. The charin
of a cosy home resides inherently in the mistress
 do to make a house comfortable. II fine mirror.
and velvet carpets and plush-covered furniture and and revet carpets and plashi-covered. what blessed.
elegat carvings made happy hones
ness ness would reside in a furniture store. Not tili
loved faces have been reflected in a mirror is it made atesll precious to us ; not till footsteps for
which its inanimate web dear to us; ; not till chairs and sofas have been consecrated eolless objects, however
of our friends do these solle costly, have to us other than a mere commercial value. Uaassociated with human feeling and sym pathy the most expensive and elaborate interior
are like roses without scent, like marbles without
lif life. Every thoughtful person knows all this wel
enough, but for all that wo are too apt to fanc that possessions like these bring happiness, while we suffer to lie unused sulh as ase.
potent to yield abundant pleasure.
poten of the chief requisistess for a cheerful room
Ont Whether in palace or cotage is sunshine In th
hot summer time a north room is endurable, but in winter we love those roms best where the sur comes earliest in the morning and lingers longest in
the evening. In such a room should the family
 the invalidis
bayys cradle
In rodms into which the sun never shines re-
course must be had to various devices to make un coorse as may be, for this grave lack. A sunless
soom should
rom room should have bright and joyous color in its
furnishings. The walls should be warmly tinted furnishings. The walls should be warmly yinted
the curtains give a roseate glow to the light that passes through them. An open fire may difluse

the sunshine but lately imprisoned in oak or hick ory, or ages ago lociked up in in anthracite. Fern. gentle cheer to the room and suggest quiet forest | nooks. |
| :---: |
| not les |

Not less requisite than sunshine to the comfort of roons is order and neatness. TTis should be
impressed upon every every part of it. There is a certain ueglige look to all attractive rooms, certain
ovidoncos of perroonality and individuality, but
these are as far as possine removed fon thsorder
 piano, may indicate the tastes and occupations of hhe inmates without suggesting that there is not a thing as being too neat and too nice to take comfort in everyday life, and this is any thing but cheerful. And then there is such a thing as being so isporderli and nete house-mother cannot rest while there is a finger mark on the paint or a spot on the Window panes, she may make a neat room, but her has no care for the "looks of things" her failure will be equally sure.
A bird singing in the window, an aquarium on the table in some corner, plants growing and
blooming, domestic: pets moving about as if at home, these give life and brightnes to an apart.
 people a room, and pictures on the walls, if selected with taste, are ever fresh sources of enjoyment. family by these infallible tests, uless they have been selected by some outsider. Bits of embroidrery, of scroll- work, and a thousand tasteful de-
rices may contribute to the charm of a room and inces may contribute to the charm of a room and
nake it itresistibly attractive. The room in which one lives takes on the complexion and prevailing tates of the mind of the occupant. If one is impressed upon his surroundings, and you will know him by them just as you would know a crab y hish tast ${ }^{2}$. bit of elegant upholstery, but where the taste of the occupants has found beautiful expression in calico and ingrain and wood engraving and such
esources as bounteous nature bestows on us all ferns and fowers and sunshine and domestic pets.

## Novel-reading.

Carried to the extreme novel-reading is undoubt.
 and harmless recreation. Fiiction transports the vearied mind outh brdens of the renlin his symreader orgets the unrans on the rean in mis sym
pathies with the unreal. He has the pleasure of emotion without the sense of duty;
ing without being required to act.
$A$ real cal catal. ing without being required to act. A rotions, bat it alaso
trophe not only excites the emotion sets every faculty to work to devise sucor and
elief $:$ ent eitief ; but an imaginary catastrophel sthimutites
he emotions of pity and yet allows all the acting
Real aculties to sleep on and take their rest. Real society requires the observer to be also a partici-
pator ; the society of novel olute mental repose. Then, again, a good novel erves as a teacher. The wisest of novel writerz work for a purpose, and generally succeed in teach.
No uninspired book is a
ng some moral lessonn better protection to a young man just entering life than "Pendennis "" no excoriation of the falsitity of
 poor-house system than tons of blue books, and
nore to " 1 Dick Tur pine "and the " Beggar's opera") than a century of
preaching. A g ood novel then is to he recom reaching. A good novel, then, is to be recom.
rended one that gives us a ligher conception of henced one the
ife and its duties.
It is one of the worst misfortunes of woman that alsenood tis not as a rule considered d dishonor
among them. To call a man a liar is like calling him a coward-an offence to the very soul and eeart To call a woman deceitful, a romancerr, or falsifier, is not to honor her certainly, but not to lishonor her as it would dishonor her husband or rrother. She is priviegic beter is
oxpected from
ne hood her; and sociecty condemst her sin as the sin of weakness which she is expected
you expect a frayed rope to break
A woman, on being asked to subrcribe for a fash. on publication in orrer to keep up with the styles,
enlied eth
, replied, with some spirit:
heathen? 1 go to church.
Friale emigration to Caxada.-Miss Le ject): The farther west the young woman went
he the more onfers see got! Oh, mamma, let
Canada, as far west as possible :-[ [Punch.

## The family ditrete.

© Curfew Must not Ring To-Night." England's sun was setting o'er the hills so far away,
Filling the land with misty beauty, at the close of one sad day
And the last rays kissed the forehead of a man and
He with step so slow and weary ; she with sunny
floating hair
floating hair;
He with bowed h
He with bowed head, sad and thoughtful ; she with
Struggled to keep back the murmur, "Curfew must
not ring to-night."
"Sexton," Bessie's white lips faltered, pointing to
With its walls so tall and gloomy, walls so dark "I've a lover in that prison, doomed this very night "I've a lover in that prison, doomed this very night
to die At the ringing of the curfew ; and no earthly help Cromwell will not come till sunset," and her face grew strangely white,
As she spoke in husky whi
she spoke in husky, whispers : "Curfew must
"Bessie," calmly spoke the sexton (every word pierced her young heart
Like a thousand gleaming arrows-like a deadly poisoned dart),
"Lon, long years $I$ 've rung the curfew from that gloomy shadowed tower;
Every evening, just at sunset, it has told the twiEvery evening, justat sunset, it has told the twiright;
Now I'm old, will not miss it. Girl, the curfew rings to-night," ${ }^{\text {In }}$,
Wild her eyes, and pale her features, stern and
white her thoughtful brow ;
And, within her heart's deep centre, Bessie made a
solemn vow.
She had listened, while the judges read, without a
"At the ringing of the curfew, Basil Underwood
And her breath came fast and faster ; and her eyes
One low large and bright; ; not ring to night.
She with light step bounded forward, sprang with-
in the old church door, Left the old man coming slowly, paths he'd trod so
oft before.
Not one moment paused the maiden, but, with cheek and brow aglow,
Staggered up the gloomy tower, where the bell Staggered up the gloomy tower, where the bell
swung to and fro;
Then she climbed the slimy ladder, dark without one ray of light,
Upward still, her pale lips saying, "Curfew shall
not ring to night." She has reached the topmost ladder; o'er her hangs the great dark bell; And the awful gloom beneath her, like the pathway down to hell.
cee the ponderous tongue is swinging ; 'tis the
hour of curfew now; And the sight has chilled her bosom, stopped her
breath and pated her brow. breath and paled her brow.
Shall she let it ring? No ; never : Her eyes flash with sudden light,
As she springs and grasps it firmly : "Curfew Out she swung-far out ; the city seemed a tiny speck below-
There, twixt heaven and earth suspended, as the bell swung to and fro;
And the half-deaf sexton ringing (years he had not heard the bell); ; wilight curfew rang young Basil's funeral knell;
Still the maiden, clinging firnly, cheek and brow so pale and white,
Stilled her frightened heartsswild beating; "Cur
few shall not ring to-night.
It was o'er; the bell ceased swaying; and the maiden stepped once more
Firmly on the damp old ladder, where, for hundred
years before,
Human foot had neen planted ; and what she

Should be told long ages after. As the rays of set-
ting sun ting sun
Light the sky Light the esky with mellow beauty, aged wires, with Tell the children why the curfew did not ring that
one sad night. one sad nigh
O'er the distant hills came Cromwell ; Bessio saw him, and her brow,
Lately white with sickening horror, glows with
sudden beauty At his feet sheatoly nold her story, showed her hands And her sweett young face so haggard, with a look so sad and worn
Touched his heart with sudden pity, lit his eyes
with misty light. "Go! your lover lives," cried Cromwell. "Curfew shall not ring to-night.

The Story of a Dream.
My only sister, Edith, married when I was
scarcely six years of a scarcely six years of age. Ny mother died soon
after that event, so I was left at home with my father and brothers. My father said I resembled
my mother, and I think loved me better than anythy mother, and the boys, too, indulged me in every whim. I don't think I had a wish ungratified. They said I was pretty, and in my youthful
vanity I imagined myself beautiful. Ah, me those happy days of my bright girlhood, when
was careless and light-hearted, dreading no evil was careless and light-hearted, dreading no evil
because knowing none, are even now a pleasant because know
memory to me.
My sister lived at some distance from home; absorbed in the cares of her family she rarely visited
us, but I spent nearly half of my time at Ellengen the name of my mother-in-law's place. I was deeply attached to my sister and her children, and I found a dear friend in the person of her gover
ness, Miss Gray. She was a fragile, golden-haired creature, with tender, intensely mournful, brown eyes, the saddest eyes I had ever seen; she was so
fair and slight as to look almost childish notwithstanding her five-and-twenty years.
I liked her from the first ; but she was very shy, of friendship met with any response ; and even
when we had grown to love each other, she still maintained an impenetrable reserve concerning her early life. She received no letters, avoided all strangers. I had a girl's curiosity ; but Miss Gray never spoke of herself, and answered all questions with a gentle reserve hat was more repelling than
rudeness. Ever ready to sympathize in the truanhess. of ofthers, she never spoke of her own
triefs-and griefs I was convinced she had. I de griefs-and griefs I was convinced she had. I eye had a history ; but my sister laughed at what she
termed my romantic notions. Miss Gray had come to her highly recommended; she was devoted to
her little charges ; there Edith's interest in her governess ended. I first met Rupert Gordon For two years I had reigned as a belle, and as yet my life had never known grief. The first itime the peruasive music of his voice, I loved him
loved him with all the mad recklessness of a head loved him strong girl's first love ; I saw that he was hand strong girds first foye, 1 saw him with a thousand
some, and my fancy endowed heroic attributes; then 1 knelt and fery wor deep, trusting tenderness lavished upon that shrine! I could scarcely believe in the reality of iny happiness when he confessed his love and asked
me to be his wife-his wife. I would have been contented to be his slave.
contertey the course of true love never did flow
Surely desirable ; my father heartily approved of my choice; the relations on both sides were highly pleased; so it was settled that we were to be mai
ried at once.
The few months of my engagement passed rapid-
ly away, and the time of my marriage drew near ly away, and the time of my marriage drew near.
Edith was unable to come to us until the day before the wedding, and by my particular request Miss Gray and the children were to accompany her.
Now, it was one of my peculiarities that Inever dreamed; ; but at this time, for three nights in suc
cession, I dreamed precisely the same thing. I thought I was clasped in Rupert's arms, close to his heart, and my happiness was complete ; then
Miss Gray, her pale face wet with tears, came and begged me to leave him. I could not account for
it, but she inspired mee with great terror, and I
clung more closely to my lover. Gently, her sad
eyes gaving pitifully into mine, her ice-cold hands retained me, she loosed my clinging arms, and I
saw Rupert vanish from me, and knew that he saw Rupert vanish from me, and nen I awoke.
would never be my own again. Then The 17 th of May was to be my wedding day.
On the l6th Edith and her family arrived. After lunch that day I took Miss Gray up to my room to show her my wedding presents and trousseau. I
was excited and more than happy as I tried on my Was excited and more than happy as is tried on my
wedding dress and peeped into the glass to see the
effect.
Miss Gray, in her quiet, gentle way, was almost as excited as I. She listened to all my praises of I had been her sister I was still standing before the mirror in my
bridal robes, when Miss the window, gave a sharp cry of pain sand turned the window, gave a sharp cry of pain and turned
to me with such a ghastly face that I was frightened. "Who is that: Oh, tell me who is that?" she grasped.
I looked out and saw Rupert coming up the avenue. My Rupert, with his happy, careless face.
"That is Rupert, Miss Gray. Have you seen him before ? Are you ill ?" I a asked, for she tremShe answered that she had mistaken him for a person she had known long ago; she was not very
well ; she would go to her room and rest a little well; she would go to her room and rest a et my
while. Then she left me and I hurried to meet my
lover. lover.
About ten minutes later I sought Rupert in the library. As I descended the stairs I heard voices, "I the approaching the door I heard Rupert say : "I thought you were dead," in low, constrained
tones; then I entered quickly. Rupert stood by the window ghastly pale. Opposite, with a strange anguish in her eyes, was Miss Gray. I went di-
rectly to him. At my approach he trembled con
"Rupert," I said, " tell me what troubles you." and leaning his head upon my breast, burst into and leaning his head upon my breast, burst into
tears, sobbing like a child.
" Maud come away ; this man is my husband," "Maud, come away ; this man is my husband,
I heard Miss Gray say.; I heard Miss Gray say. $\begin{aligned} & \text { Ier voice soonded like one speaking from a dia- } \\ & \text { tance. My Rupert another woman's husband ? }\end{aligned}$ Was she mad
"It is not true !" I cried; "It is not true
Rupert, dearest, speak to me and say it is not Rrue." "M "Heaven help me; ; it is true," he moaned.
Then for a moment I thought my brain win fire. I was mad with pain and passion ; I could not reason; I only knew that I loved him ; I could
not live without him. In my agony I ahrieked aloud: "Rupert, do not leave me ! She cannot love
you as Ido! Oh, Rupert it will make no difference! I heard Miss Gray's pleading voice, but I turned from her with loathing. 'Then mocking faces
floated around me ; Edith's tearful, my father' floated around me; Edith's tearful, my father'
grave and pitiful, the boys' entreating ; but grave and pitiful, the boys entreating; but my na
ture seemed changed in my deparir, for I hated
them all fiercely; were they not triving to them all fiercely; were they not trying to separate
me from my idol? A great black veil seemed en me from my idol? A great black veil seemed en
veloping him, hiding him from me even as 1 held veloping him, hiding him from me even as 1 held
him. Then the darkness engulfed me, and insensi-
bility came to my relief bility came to my relief.
For weeks I lay at th
For weeks I lay at the gates of death, and
throughout my long illness Mary Gray attended throughout my long illness Mary Gray attended
me like a sister. When I regained strength she told me the story of her life, the romance that as a heedless girl, I longed to know.
She had been governess to Rupert's sister when he was almost a boy. He fancied he loved her,
and she loved him with all the earnestness of her and she loved him with all the earnestness of her
nature. Yielding to his entreaties she consented to a private marriage. Then before many months
had passed, she found that her young husband had already tired of her devotion, and longed to regain agony of the discovery had almost killed her; but at last she resolved oo be a burthen to him no
longer. During his absence she left the house longer. During his absence she left the house
leaving a note for him to tell him that he was free. She cane to my sister, and as the years rofled on
Rupert persuaded himself that she was dead Rupert persuaded himself that the was dead.
Mary Gray and I, both hopelessly loving Rup Gordon as women can love but once in their lives, formed the covenant of friendship which has lasted
even until now I saw Rupert but once again. On his death bed he called for me, and I went to him. He died
with his hands clasped in mine, and his dear head with his hands clasped in mine, and his dear head
pillowed on my breast.

My Dear Nizors.-As we pass from the warm cummor monthe into the cooler and chilly airs, which bring with them certain changes of dress and appearances, we become birds of darker plumage, and begin to adopt, almost wi
knowing it, the richer hues of the late knowing it, the
autumn andwinter.
autumn andwinter
Let me here ask



take sufficient care of themselves by wearing flannel and merino underclothing? I
fear many of you consider yourselves suffi. fear many of you consider yourselves suffi-
ciently well clad without them, but that is a sad mistake ; if you do not feel the need now, you will probably realise the bad effects in after years. Nothing in the way of in after years. Nothing in the way of
dress has ever been introduced which is more valuable than the union or "combination" under-garments of merino and lambswool, the undervest and drawers united in one. Thus covered from the waist, and nearly to the ankle, the wearer can dispense with heavy petticoats, and march about with ease and lightness. Although perhaps a little expensive to buy at first, these " union garments" wear well and long, and are cheaper in the end. Many preference to any other, on account of its precerliar properties, which are supposed to be beneficial to invalids.
If we are poor we are certainly not to seem so. Judging from the richness and general magnificence of the silk, satin and velvets that are being produced for the coming season, there is a large number of most attractive novelties in styles of construction and ornamentation, to say nothing of the fresh fabrics, picturesque combinations, choice colors and new trimmings; dark greens, browns and blues, with several tones of red, are the colors for day wear One very suitable style for making a street dres on, woolen or veliet is a plain skirt which pinked or ravelled ruche, or with ruffles, pleatings or any desired trimming. The overskirt is formed or any desired trimming. The overskirt is formed
either of a short full apron front and shawl back, or what is in greater favor still, full paniers, which may be set over the bottom of the basque or put into the waist-band, as in the case of a round waist ; the back draperies may be round or pointed or be finished with a large sash of the goods. These costumes may be made entirely of the material, or
in combination with some other, according to the in combination with some other, according to the
taste of the wearer. Military braid, either cream
or black, is also used a good deal for trimming
stren street costumes, with frogs made of the narrower different material from the dress, continue to hold their own and will probably do so for some time yet, as they are admirably economical, becoming and useful, and in these points they suit everyone

 ards material, 24 inches wide, for medium size.
 e, or meadun miza.
alike. Satin, plush and velvet, brocale and vel veteen are all fashionable, and any of my nieces who may have their last winter's dresses in good
order, as regards the skirt portion, with a new coat-bodice of some kind, will find themselves pro vided, at a small expense, with a new and fashion able winter dress.
A change in regard to the cutting of plain shirts has taken place, and many of them are not gored at all, but are sloped away at the selvedges on each side of the breadths at the top, and have two front pleats like darts as well, so as to bring the front breadth and sides into the waist. This sloping is hidden by the pannier trimming, which is all but
universally worn. Train dresses are only used for universally worn. Train dresses are and
eddings, et
ddings, etc. Dresses for mourning wear follow the prevailing of the widows' mourning, which alone cancept that "plain." The tight fitting coat seems to be the favorite street wrap for young ladies. Plush velvet and all kinds of cloths and coatings, able made in this way. A simple finish is



preferred for suit coats; braids or silk cord preferred for suit coats; braids or silk cord
ornaments may be arranged upon the ornaments may be arrangel upon the
fronts, across the skirt of the back and upon the wrists of the sleeves, and the edges may be finished with a single row of stitching, or when the coat is made of cloth, a vely stylish effect is given by making the cuffs, collar and pocket laps of velvet or plush, but if the garment be entirely of those materials, no trimming is required except handsome buttons.
The fur capes of last season are still in fashion, but are now made much larger, and in some cases extend in depth below the elbow. Of course this adds greally to their aly see the many young ldies will wear tight fitting dresses and coat bodices, gaingit the needful warmth by means of one of these useful capes.
The dolman is still in favor with many, especially elderly ladies, plush, fur and passementeries forming suitable garnitures. Velvet, plush, and beaver hats and bonets will be most in vogue. The a verage hat is large, drooping slightly back and ront, and profusely trimmed with feathers and birds. There is a grace about a long ostrich plume that cannot be obtained by any other garniture, long or short, many or ew; they are liked, and the possession of a good full curly one is felt to be highly sirable.
Muffs are worn a great deal to match the cosmes made of satin, velvet and plush, and trimTan gloves a
有 able being made to button at the wrist with two loose neglige style. Black gloves, as well as all dark shades to match the costumes, will be worn during the winter.
Now a word about children's fashions. The deices for little folks are designed alike for small irls and boys, the trimming upon the girls garments usually being somewhat more fanciful than that upon the boys' clothes.

The long, half-fitted waists remain in favor, as they deserve, but there is no end to the pretty portions. One exceedingly pretty style is a halffitting sack shape, that may be deeply trimmed with pleatings, shirrings and puffs, wash laces and bias ruffles. It has an inserted centre-front, which may be of another goods, and upon which the front edges of the side-fronts are buttoned. It has a wide round falling collar and a stand up collar, and its wrists are prettily overfaced. A sash of the goods, or hemmed surah, or wine ribbon, may be worn with this charming yet simple style of dress. A very pretty cloak is made double-breasted to proper width by a box-pleated skirt, with a to prond shoulder cape and large pockets upon the sides. Such a cloak is equally fashionable made plain or bordered with moss-trimming, plush, velvet, fur or feathers $\qquad$ Minnib May.

## Answers to Enquirers

SAPpio.-You may re-curl feathers with a blunt knife, doing each flament separately and drawing
between your finger and thumb. between your finger and thumb
Ignorant Thirtern.- Use soft water for washing your hands, or put oatmeal or bran in it, and
rub them with glycerine and water ; also wear gloves out of doors.
Perplexed.-The yolk of an egg or purified ox-
gall would take out the stain of milk from your gall would take out the stain of milk from your
navy-blue cashmere. Proceed with care, and do navy-blue cashmere. Proceed with care, and Blubebel.- 1 -Turn your fork around and lay
it fat on its back upon your plate when you have it flat on its back upon your plate when "ou have
finished. We should say "thank you" on every occasion, of course ; you would decline a dish at
table with " no thank you." 2. We cannot give you act Surely you do not face? Be satisfied that you have any eye-brows at all, for many have none.
Lady Sarah.-The ruby-colored velveteen
would be suitable for your Christmas would be suitable for your Christmas party,
trimmed with moire silk, or satin of a different shade of the same color. If the dress be dark, the trimming should be lighter, and, if light, it should
be darker. 2.-The length of time requisite for learning a charade depends on your own quickness and memory. We cannot judge of either.
Farmer's Davahter.-1-The primary use of a lips clean when eating; the second use is to preserve the dress from any accidental stains and grease-spots that may fall upon it while at table. you complain, may be kept away by hanging a little bag of sulphur in them.
H. B. M. $-1-$ Never look at any strange man as you approach him in passing by, for sometimes a
look may be taken advantage of by forward and impertinent men. Look straight onwards, and do not speak loud or laugh in the street. It is generally a girl's own fault if she is spoken to, and
such is a disgrace to her, of which she should be ashamed to speak. But we must hope and believe that the liberties thus taken were owing to no light manner nor indiscreet conduct in your case. 2.-
The initials "R. S. V. P.," mean "Repondez sil vous plait" (answer if you please).

Recipes.
Onross.- Boil in salted water ten minutes, then put them in cold fresh an wor half an hour; after fresh water to cover them, and boil gently till tender. Drain and serve with melted butter. Thus Oyster Pie.-Line a deep dish with puff paste, OYsTER PIE.- Line a deep dish with puff paste,
dredge the crust with flour, pur in the oysters,
season well with bits of butter, salt and pepper, season well with bits of butter, salt and pepper,
and sprinkle flour over ; poys on some of the oyster and sprinkle flour over ; potys on some of the oyster
liquor, and cover with a crust having an opening in the centre to allow the steam to escape. One pint
of oysters will make this pie. of oysters will make this pie.
SAusage Meat.-Two parts of lean pork and
one part of fat are finely chopped ; for three pounds one part of fat are finely chopped; for three pounds
of meat add two teaspoonfuls of salt, one of pepper, two of minced sage and a teaspoonful each of
mace and nutmeg. The seasoning ii evenly mixeod
with hem meat, which may bee packed in jawi and covered with melted darat to seep. Soq asif Prip-Hubbard gquash is beat for pies
Atter boiling press outallthe water posibibe, which can only be bone by putting it it itto thin flotho and




Giraze Coorirs,-Two cups New Orleans mo lates, one cap lard. one half cap pugar, one heap
 Spoorulul dinamon, one-half teasponful alover
 sider them just as goood as the bakerert cookiese,

 enough to make astiff pasto. Put the chicken in
to the diehe




 Mlickry Pri. Choose a rathor thander fow





 faror, and partly detartory thith neaurishing gualitie of the feesh. . .utititit in jointa sand putititito a hot frying pan with an ounco of tutter and two ooneen
salt pork cut in ince, and fry it rown. When

 of chopedid parsiley; ; overef it with boiling wate
ond lefite bimmer genty for an hour, or until the and itetititimmer genty for an hour, or util the
chicken is tender.
Meantime make the

Advice to the Girls.
When a man chooses the profession of law he does not expect that if he would succeed he mus devote himself to the one chosen calling. When woman marries she realizes that
lofty heights in wife and motherhood she must sacrifice lesser aims. She must be willing to lad
aside the delightful occupations which have mad her girlhood pleasant; she must know that fron with loving forethought, to that darker hour whe the mature man lies down to his last sleep, sh will give full meaning to the words, will be a
care." That her mind once unfettered will liberty no more, but is bound by ties stronger tha life or death to those who have come to her out the great unknown. Wait awhie, girls; thives-t
all over before you promise to become wives take these duties and burdens upon you. Swee and satisfying as are the obligations of wife and mother, hus not be looked upon as a sort of perpetual beau aud children as extremely uncertain
and improbable adjuncts. Unless, like Wilhelm Meister, your apprenticeship ended, you reach out of yourseff and ask for larger duties, for a with
field of labor, you had better stay at home with father and mother, dignifying the relation of
daughter, filling the old-established home with a daughter, filling the old-estathish but a dim light in
mild radiance which would seem but a new one.-New York Post.
Darwin acknowledged himself matched when his little niece asked him, seriously, what a cat has ture deliber anmal has. the sly puss answered, kittens."-[Altoona Tribune. He slipped quietly in at the door, but cat, said "Sorry so late, my dear; couldn t get a car before."
"So the cars were full, too," said the lady ; an "So the cars were full, too, said the Boaton Com-
further remarks were unnecessary.-
mercial Bulletin.

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## OUR RULES.

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Choose your prize when rem ang
be made for your
None of the above prizes are for sale.
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sion allowed, eent on application.
ancle com's diffartment.
My Dear Nephews and Nigces.-As the long vinter evenings are fast approaching it will not new and excellent game called "Tip" is very popular in Germany, and may be equally so in Canada when it becomes known. Any number can play, and it is adapted as well to the parlor as to the picnic. One of the company pours out from a paper package of assorted candy and small toys making the tieces heap in the middle of a table ithin eas of all. After one of the children has been blindfolded one of the number touches an article in the pile in order to point it out plain y to all excepting the one whose cys are losed The player then opers $h$ ber own all she elect one at the thating the "tip" or the piece can in wen touched If theyer touches the "tip" first she gains nothing for the moment she takes the "tip" she must give it up and the turn hases to the next player on the right. Another me called "Characters, or who am I 9 " is thus played :-One of the party is sent out of the room, shen some well-known hero or equally well-known character from a book like Dickens' novels o Shakespeare's plays is selected, and when the absentee returns to the assembly, he or she is greeted as the person fixed upon, and he must reply in such a manner as to bring out more infor mation as to the character he has unconscionsly as. sumed. Another funny game calleel "spoons" is played as follows: One person takes his stand in the centre of the ros ver his eyes, an his his a
 her teir hands in time to a tune which may be ang or pleyed upon a piano in any slow measure nitable for marching. When the blinded player calls out "spoons" all the others stop at once and turn their faces towards him. He then finds his say to any player that he can, and must ascertain who hei is by tonching him with the spoons only, which he may use as he pleases. If he guesses right, the person canght is obliged to take lis place in the centre. If he is wrong he must try until hie succeeds, which it is easy to do with a little prac ce, especially if the one who is caught joins e for both haghter. All hese ghe shit thor boun bue beficia, specially for the boys, as the girls' wentle manner and to refine and influence the more boisterons style of the sterner sex.

## PUZZLES.

Where once I am erected, year after year I stand, And yet by
land.
waken smiles and sishs ard tears,
I'm deaf as deaf can be
And when you want to travel fast.

- Elzabetu E. Rran.

2-charade.
Whole, I am what every person must do
Behead again, I am a liquid.
Transpose I mean relatives. -Frev Mills.
(1) A man's name; (2) a county of Ireland ; (3)
(1)
an Island of the West Indies; ; (4) a town of Eng
land noted for its castle; (5) the goddess of wis lom. Fach word is of seven letterss. The first
dom.
line read horizontally and my centrals read down line read horizontally and my centrals read down-
wards name an American novelist.

that necessary, and, if so, must they be removed
with clay adhering to their roots or without it? with clay adhering to their roots or without it? Advocate for November. [There is no necessity to take them up. If kept covered with straw; but if you prefer taking them out of the ground, they should have clay around the roots.]

Not to be Deceived.
Four or five of us were enjoying our last pipe for the night in the smoking-room at Craigfallooh.
We had had a long day's tramp over the moors and the conversation lay chiefly between Jack Winstanley and Charley Vane. These two had
been at Oxbridge about the same time, and dis, covered that, though they had never met there,
they had a lot of friends in common. Of course they hegan telling each other who had gone into they began telling each oCivil Service, who wasdrag-
the Church, whointo the ging out life at an up-country station in India, who fortune in coloured yarns. for Did you know Merton ?" asked Winstanley.
"I think I've met nim. Wasn't he a St. "I think ? Pve met nim. Wasn mat's man a straw-colored hat and a delicate gossamer beard that he never would shave off."
"Daresay. He was a very decent fellow, if he was a little strait laced. A parson, now, of course. lid you ever hear of a visit he once got from 'a fine old English gentleman, "
"No. Tlell us the story."
"Well, Merton was really a good fellow, but he had been brought up at home-coached at the family rectory; you understand? He never got
into scrapes like the rest of us, and in fact was the most irreproachable soul you ever saw. One term, Millbank's oldest sister, a mature lady of some thirty summers, came down to stay some rival, wishing to give dear William a surprise, she ran over to see him early in the afternoon. Of
course he course he got a cup or coffee for her, and they were
having a pleasant chat in his sittingroom, when having a peasant chat with a card, 'Mr. Edward Mandelay.
". 'The
hopes it gen'man sends his compliments, sir, and hopes it would be convenient for you to see his
rooms. He had these rooms, he says, sir, when he was up here fifty years, ago, and he has a great fancy to see them again.
"' Very natural, very natural, I'm sure. I
shall be delighted, Thomas. But wait a moment. Agatha ${ }^{\text {"/ ' Will it }}$

- ' ' 0 ' took odd for me to be here, dear?' sees you here he'll be tempted to sit down and talk, and we shall lose all'the morning. Here's the scout's closet.
chair. 1'll get rid of him as soon as I can.' "The fact is that Merton was so awfully afraid of being chaffed that he wouldn't have had it come to
our ears on any account that a stranger had found him entertaining a lady in his rooms. Agatha was rather shy, and very glad to take refuge in the scout's closet.
" Presently in comes Squire Mandelay. A fine, bluff old fellow, something over seventy, a little
shaky on his pins, red face, white mutton-chop shaky on his pins, red face, white mutton-chop
whiskers, white hat, check tie-you know the style? I im not in your way. The scout told you, perhaps, that I your way. The scout told you, these rooms-ah! a good fifty -three years ago-before your father was born,
I daresay? Dear me! How time Ffies! It all looks like yesterday-like yesterday! The same old view into the master's garden. Yes, the same
old view. The same old pictures, too ;' and the old view. The same old pictures, too ;' and the
old boy got up and tapped the frames ; 'and I declare ! the same old sofa. Dear me!
" Next, he walked round the room, stopping at
the fireplace. 'Same old mantelpiece!" Then he the fireplace. Same old mantelpiece. Then he
got to the door of the scout's room, and turned the handle. 'Same old-..' He had just opened the door, when he caught the flutter of a peticoat,
and suldenly closed it. and suddenly closed
ing his head, 'same old
"'s'sir!' gasps Merton, in an awful funk ; ' sir ! that's my sister! She-that is-
"s Woll, I deelare ! Same old lie! Same old

The Highland Land Steward and his We take the fll We take the following from a paper entitled Mr. David, from Edinburgh, in the nursery and seedsman line, paid a visit once in five years to a nobleman's estate in the far north, for the purpose
of getting orders for the replanting of the fir trees of getting orders for the replanting of the fir trees
which the rough blasts of the previous winters had destroyed. Upon the occasion in quastion the land
steward, or grieve, was a man called Alexander steward, or grieve, was a man called Alexander
Mackintosh; he was a quiet, inoffensive, and singuMarckinosice ; he was aqualet, inoftensive, and singucould extract from him were the monosyllabic answers "yes" and "no," as the case might be.
As usual, when the bargain was completed, the As usual, when the bargain was completed, the bargain with, of course, a glass of whiskey. Mackintosh never spoke, and even the electrifying in-
fluence of the "usquebaugh " availed not ; his lips fiuence of the "usquebeagh" availed not ; his hips
seemed hermetically sealed. Trning over in his mind some subject to get the Highlander to speak upon, he said- "Oh! by the by,
Scotsman, the other day, that a young man from this district had passed his examination as Master
of Arts of the University of Edinburgh. I saw it of Arts of the University of Edinburgh. I saw it
was the same name as your own, Alex. Mackintosh. Is he any relation of yours?"
"My son."
"Your son!"
must be a clever chiel ; the examination is by no means easy; it requires preparation, study, and, above all, indomitable perseverance. Why, you nust be proud of your son?"
lapsed into silence
"Well, I only wish I had with such honors," remarked the Edinhourgh gentle-
man. "Yes, yes," nodded the grieve, and added, "I am very proud of Alexander, but it is my other son "What, have you another son ?" asked Mr. David, "and what may he be ?"
Chysician in Liverpool, in England, where he is a arge practice, not among poor people, but in the most aristocratic part of the town. He makes much money, and is not old yet."
"Well!" continued Mr. David,
ons-one of them a physician, and the other a sons-one of them a physician, and the other a,
Master of Arts. Why, you must be proud of them?"
"" "Oh, yes ! oh, yes!" returned the ground officer.
"And your excellent wife, Margaret, she will "ery proud also ?"
"Oh," yes, she is, poor body; but, if 1 had known," he remarked, in rising to leave, "that my ecome so distinguished, I would have married a Lady, and had another mother for them

A Conscientious Young Man. There is no moral object so beautiful to me as a starir in the heavens. Clouds may be before him, but we know that his light is behind them, and
will beam again. The blaze of others' popularity may oum aghain. Thim, but we ke now that, though un-
mat
the seen, he illumes his own true sphere.
He resists temptation, not without a struggle,
or that is not virtue ; but he does resist and conquer. He hears the sarcasms of the profligate, and it stings him (and that is the trial of virtue), but
in he heals the wound with his own pure touch. He
heeds not the watchword of fashion if it leads to sin ; the atheist who says, not only in his heart but with his lips, 'Mand ise no joices in it. Woman is sheltered by fond arms and loving
counsel, old age is protected by its experience and counsel, old age is protected by its experience and amid the temptations of the world like a self-bal
and anced tower. Happy he who seeks and gains the
prop and shelter of morality. Onward, then, conscientious youth! Raise thy has given thee intellectual power, awaken it in that cause; never let it be sald or hee, He helped to swell the tide of sin by pouring his influence
into its channels. If thou art feeble in mental strength throw not that drop into a polluted cur rent. Awake, arise, young man : assume the
beautiful garb of virtue. It is fearfully easy to sin ; it is difficult to be pure and holy. Put on thy strength, then
doforid hor !

## (The CRittle ©nes Colunur

Don't Leave the Farm.
Come, boys, I have something to tell you:
Come near, II would whiser it itww
You are thinking of leaving the homestead,
You are thinking of leaving then
Don't be in a hurry to go.
The city has many attractions,
But think of the vicos and sins;
Wind
When once in the vioresex and sinssi,

The mercantile trade is a hazard
The mercantile trade is a hazard-
TThe goods are first thigh ant then low.
Beter risk the old farm awhile longer;
Dont be in a hurry to go.
Don't be in a hurry togo.
The farm is the safest and surest,
The orchards are loaded to-day; You're as stree as the aired in the emountains
And monarch of all you survey,
Better on the farm awhile longer, Betcer on the farm awhile onger,
Though the protits oome in rather slow,
Remember, ouve nothing to risk, boyse,
Don't be in thury Don't be in a hurry to go.

## A Story of All-Hallow-Eve.

ey Aemas rappuan.
I wonder how many of the children who roast chestruts or
duck for apples on onll-hallowerve have any idea how venerable are the games they play, or how, all the world over, young
people are amusing themselvee in pretty much the same laskion, n England, girls are, strewing the ashes that are ever loves them best. In Sootland, they are slyly sowing the
hemp that their tuture husbands must come and gather In
Cermat Germany, they are making merrye efforts to learn their fate
with the help of the looking glass that hangs by their bed
ind were ord even these the thorts have been
More tiva eighty
tien of story
More tian eighty years agy thre (little English children
were arranging their mystio games or All-halloweve. They
were alone in a tiny cotta




 hopping gayly yabout on the fire-place; and half a dozen rosy
cheeked apples loated tauntingly in a tub of water, waiting for a courageous diver.
Rupert, astrong active boy of twelve, captured his
apple an every apple atevery, bringing it out
tutub and never
fixed in it wed, onlthnibbled at hers, and sent it bobbing about the sul
face of the water; while poor little Nance would dive bold
 shut, the water rtreaming from her fair hair, and looking
more like
suceeded ind tround ditten than a succeeded in catching a alippery appl
 now who wiir be married and who will die. Rupert, you ge
into the garden, and bring me in some earth on a plate, while
in
 wild up the motald. It of come at fing before the face of the maon
while to his left he saw the white banks of the river Lea, an
 trowel in hand, and how loudly it sounded! He had never
seew or heard it tike that beotore and ofo a moment the stood
wondering what had caused this sudden rise. Then Mar
 Witchen, without a thought of the foam ing torrent outside.
The little girl placed side by sid on the table
the thre dishes, one of which held the mould, the other ashes, and the
third clear water. Then she bound $a$ handkerchief tightly

 ould surely ye before the next All-hallow-eve.
Fully impressed with the solemnity of this awful rite Fance slowly groped her way to the table, and after a mo

 chief and handed it over to her sister. But with her matter
were not boopromising tor advancing with a great hare of
onndidence, her evil genlus lea her straight to the ashos
 foor it all letet." the boy sprang to the door and opened it.
with bund
Whin yothing but water
nhen dep, but which was softly, steadily rising in the emoon.
git, while






















最























A Mystery Explained. One of the most learned and dignified members
of the Austin bar got $a$ terrible rebuff from old of the Austin bar got a terrible rebuff from old
Uncle Mose last week. The old man had Jim
Webster Webster hauled up before justice Gregg for steal-
ing his Spanish chickens. As Jim Webster has political influence he was defended by two promi-
nent lawyers. Uncle Mose was put on the stand, and made out a bad case against Jim Webster, tes tifying to having found some of the chickens in peculiarities of the breed.
One prominent lawyer then undertook to
Uncle Mose weaken on the cross-examination. "Now, Uncle Mose," said the lawyer, "suppose I was to tell you that I have at home in my yard, ""What would I say, boss?"
"Yes, what would you say?"
" I would say, boss, dat Jim Webster paid ap yer fee with my chickens," and a pensive smile
crept around under the old man's ears and met at crept back of his head.
In this issue you will soe the cut of W. Bell
\& Co.'s new organ factory, in Guelph, Ontario. \& Co.'s now organ tactory, in Guelph, Ontario.
The building is constructed of cut stone
The popularity of their melle The popularity of their melodeons and organs has been such that the orders could not be
supplied in their old factory. They still retain the old factory, and every department is occupied. They now employ 170 hands, and we have yet learn that there is a better meloden made. have used one of their instruments or nearly
twenty years, and have not heard one that has a
better tone to this day, and for music it is as good as a new one. The new styles may
be more fashionable, but we are satisfied with our old tried friend. They construct 15 instruments per capabilities of supplying as rapidly as wanted. This is the
ing a good instrument.
We are in receipt of the Report of the Montreal Horticultural Society
 1882. It is a very valuable work,
and of great interest, not only to the
horticulturists of Quebec, but to every one throughout Canada who is
desirous of the improvement of the

We have had numerous attempts at the solution We have had numerous attempts at the solution
of the $\$ 100$ rebus, on page 273 in the 0 ct. No ut not one correct answer. The nearest approach In th In the illustrated rebus I see the figure o
"Mercy," in whose helmet is the "Star of Life;" in "Mer right hand she holds the" "Sceptre of Truth," which is "God's own Word;" in her left she hold
the "Lamp of Love," which is to be a "Light to ou the "Lamp of Love," which is to be a "Light to our
feet," and beneath are the saces of "Justice," by
which we all are to be weighed, and happy are which we all are to be weighed, and hapry are
those who are not found wanting. Such a rehus is proftable to both high and low, rich and poor.
M. ThorNcrort, Wanstead P. O. As it is only half right, we will only award it
half of the prize that was offered for the answer. The correct answer is: "Support Light, Truth
nd Justice." We cannot conceive why no on could solve it, but we trust each one of you wil ndeavor to carry out the principle. We do no
purpose retaining the 8100 , but to devote the remainder of it to Uncle Tom's Department during this and the coming year. We now offer \$5 to Thy one that will send us in a better is open until Christmas.

## Common Sense K̀nife.

We have much pleasure in presenting our ephews with a representation of the "Common Sense Knife, now given as a premium to any boy Advocate for subscribers to the Farmer's Advocate for 1883 gemember, my young nephews,
that all whom you get to subscribe now receive

John Jackson, of Abing don, Ont. Mha, addod

 five shearling ewes from the celeb
Webb, Cambridgeshire, England.
At the Carmarthen (Wales) Agricultural Show Duke of Connaught, which was first prizetaker at
he Royal and the West of England shows this year, was beaten in the aged class by a more per
fect animal belonging to Mrs. Currie, a local tenant farmer. Mr. J. H. Barneby, of Sutley, England, on the
21st Sept, disposed of, by auction, a large draft of 1st Sept, disposed of, by auction, a large draft of with 200 Shropshire Down sheep. The sale was well attended and prices ruled high. The principal purchasers were from this
who mustered in strong force.
Simon Beattie, the well knewn importer of To this fall between 200 and 300 sheep, principally hropshires, Southdowns and 0xord-downs, also everal Polled Aberdeen cattle. He reports grea
loss to importers in shipping stock lately. One im porter lost 15 out of 17 horses, whilst Mr. B. lost 30 sheep during the passage. He gives great praise to the Dominion
On the 14th Sept. last, 47 shire-breed horses on he estate of Mr. Waltham, near Wisbeach, Eng. vere sold. A large gathering of agriculturists and breeders of this class of horses was prosent. Fil
lies averaged 100 guineas each, the highest being 150 , given by Mr. Peter Robinson, of Esher farm. Yearling colts averaged the same sum though 200 guineas was given for one,
and another was bought by Mr. J.
P., for 145 guineas Howard, M. P., for 145 guineas.
The yearling entire colts included one sold to Mr. Sewell, of Essex,
for 270 guineas, and the same sum
was given for a noted stallion, Linfor 270 guineas, and the same sum
was given for a noted stallion, Lin-
colnhhire The total of the sale was
over $£ 4,300$, an average of over $£ 100$ over $£$
each.
The well-known herd of pure-bred Polled Aberdeen, or Angus cattle,
belonging to Sir. Willian Forbes, of Fintray, was disposed of at Aber deen, on 27 th Sept. Twenty-one
animals comprised the lot, which had
been selected from the best herds in

Dominion. This volume is replete with nseful in. formation on planting and fruit growing. It gives
brlef descriptions, and prefixed to the report there are outlined the northern limits of thirty of the
principal species of forest trees, and some particu principal species of forest trees, and some particu-
lars are given in regard to their distribution in
various sections of the country. The articles on various sections of the country. The articles on
the several departments comprised in the work of the several departments comprised in the work.on to their readers.

Nov. and Dec. of this year free. I have seen the knife and it is a real splendid one ; contains prun ing blade, jack-knife blade and budding blade ach well as your father wanted just such nife many a time. The blades, the makers say re carefully forged from razor steel, file tested and buys these buys these knives in large numbers, direct from
the manufacturers, and this accounts for his ability to offer to you this most excellent and useful pre mium for so little trouble. The knife, as far as
Uncle Tom is aware of, cannot be procured in Uncle Tom is aware of, cannot be proc
Canada.
Will you not each try and win a knife?

Special Notice.
H. \& I. Groff, of Elmira, Ont., took 150 prizes
the leading fairs throughout the Dominion, al at the leading fairs throughout the Dominion, al They have also taken 2 gold medals, 4 silver medals, a silver cop worth \$90, and two sets of Canada Short Horn Herd Books. They have made some very satisfactory sales, as allows: 2 heifers
and two calves for $\$ 1,000$, to Mr. Henry Long. and two calves for $\$ 1$, There is at present a very great demand for their`young stock, as they have
taken more prizes for Durhams, Grades, and fat taken more prizes for Durhams, Grades, and fat which may be claimed as a great honor and credi to the County of Waterloo. They took at the
Provincial Exhibition, held at Kingston, six DomProvincial Exibition, held at vingston, gold medal for the best herd of
inion medals,
Durbams, inion medals, gold medal for the best herd of fat cattle, silver medal for the best herd of grades, silver
medal for the best female Durram, any age, silver
medal for the best fat Durham steer, silver medal or the best 5 Durham females, any age, bred and ornet by the exhibitor

The attention of our readers is called to the This College has been established in the city of Hamilton over 20 years, and gives a good practical
oducation to y ducation to young men and ladies.

## Wtack

The attention of breeders is drawn to new adver lisements of stock sales, \&e., which appear in this
issue. A. B., of Ottawa, Ont., wants a Yorkshire boar. ertising columns.
Mr. Bennison, of the Sutton Farm, Norton, Eng., which fetched the high figure of $£ 348 s$, Some wethers brought 65s. each.
Geary Bros., of Bil-Bro' stock farm, London, Ont., have just received another large importation, ead in Great Britain, which are expected shortly. The sale of Jerseys belonging to Messrs Smoke and Cook took place as announced on the 26th alt, and the attendance was good. The prices realized were considered satisfactory, and Messrs
V. E. Fuller, of Hamilton, Brown, of Simcoe, and Biaikee, of Toronto, were the leading purchasers.


Me country. Mr. Wilken Alford bought one-third find their way to Canada and the States, to enrich the herds there. The ten-year-old cow, Flower of Evelyn of Fintray, 76 guineas, and the yearling heifer, Lucy Eighth of Fintray, 71 guineas. For 16 cows and heifers an average of 61 guineas wa verage of $\overline{5} 00$ per head.

Messrs. Preece \& Son, the well-known auctioneers mam and ewes, from the flocks of noted breeders, in Shrewsbury, Smithfield, on 10th nlt., when there was a good attendance of purchasers from all parts of the country. The average for the Earl of
Shrewsbury's rams was about 14 gg . After these came a lot from Mr. J. Bowen Jones, which ran rom 8 to 13 gs . The lot sent by Mr. Thomas,
f The Buildings, Baschurch, averaged about 10 The Buildings, Baschurch, averaged about 10
s.; those sent by Mr. Ward, of Shrawardine Castle, average from 8 to 12 , gs.; Mr. Bromley's
Felton Butler, Trom 7 to 15 gs.; Mr. Holder's BaysFelton Butler, from 7 to 15 gs, Mr. Holder's Bays.
ton Hill, 7 to 12 gs. Of breeding ewes there was an exill 7 to 12 gs . Of breeding ewes there was
an excellent supply, the prices of which were very satisfactory.
Shropshire Sheep Sales.-The whole of the flock belonging to Mr. Thomas Nock passed under
the hammer at Sutton Maddock, near Shifnal. The averages are as follows : Rams, thirty-three, aver
aged $£ 1410 \mathrm{~s} .6 \mathrm{~d}$. ; ram lambs, forty, $£ 815 \mathrm{~s}$. 4 d . ewes, $225, \mathfrak{5} 618 \mathrm{~s} .6 \mathrm{~d}$. ; ewe lambs, seventy, $£ 40 \mathrm{~s}$. 7 d . The sale of the Shrawardine flock, belong ing to Messrs. Crane and Tanner, took place on S ept.
12th, Mr. Mansell disposing of the rams and Mr. Lythall of the ewes. The thirty-one rams aver ged chaser of the No. Tr. Horrocks Miller, the pur guineas, and a pen of ewes at $10 \frac{1}{2}$ guineas.

The first annual Fall Cattle Fair of the township
of Zone will be held in Thamesville on 15 th No. vember, and will be open to all parties wishing to

James Fullerton, of Cook's Creek, Man., ricently
sold to a Winineg butcher a six month's calf which weighed 400 lbs . dressed, and has bargained o supply 15 or 20 more of the same.
F. Ratchford Starr, of Echo Farm, Litchfield,
Conn., has presented the Jersey bull, Litchfield Conn., has presented the Jersey buh, Litchield his native Province, and the bull is in charge of the
Central Board of Agriculture.
H. Sorbey, of Gourock, Ont., writes : "I have
just returned home from showing Cotswold shee just returned home from showing Cotswold sheep
at Peoria and St. Louis, where I was successful in taking a large number of prizes, and also in selling
30 sheep at prices up to $\$ 15$ each."
The Dominion Cattle Company, limited, has been
incorporated with a capital of $\$ 800,000$, The proncorporated with a capital of $\$ 800,000$. The pro
moters are Messrs. W. B. Ives, Hon. H. M. Coch rane, Hon. A. W. Oglivie, R. H. Pope, Hugh
Ryan, of Perth, and J. W. Wiser, of Prescott.
Two polled Angus two-year-old heifers-Queen
of the May and Queen Mab, Fairy Queen tribeand a number of Shropshire Down sheep, have been farm of St. Andrew's, New Branswick. The
Shropshire sheep are bred by Mr. Ferguson, KinShropshire sheep are bred by Mr. Ferguson, Kin-
nochtry, from the Earl of Strathmore's flock. Sir Charles wishes to stock his farm with horses, cattle
and sheep from Kinnochtry.
T. \& A. B. Snider, of German Mills, Ont, have Gibbons, and a 1 year old filly to Henry Cormlu. The Messrs. Snider were every suceessful prizemedals, and report a good demand for young stal-
lions. They add that their four line card in F. A. has brought them more customers for
any advertisement they have yet made.
Hon. Jos. Cauchon, ex-Solicitor-Gen'l for Canada,
and the present Governor of Manitoba, has taken great interest in the improvement of stock in this Province. Especially is he entitled to great credit
for the active interest he has shown in connection with the draft horses of that section, so necessary
to a wheat grcwin3 country. Recognizing the su periority of the Percheron race, he is introducing
them extensively on his large estates for breeding them extensively on his large estates for breeding
purposes. In pursuance of this object, he several purposes. pas pursuance or this orecect, he severa
times the pasted the ereat importing and
breeding establishment of M. W. Dunham, at breeding establishment of M. W. Dunham, at
Wayne, Ill., where he has purchased a number of lots of stock.
SAle of Southdown Sherp.-A celebrated flock
of Southdown sheep, at Old Erringham, in Essex, were sold recently, in consequence of the owner
giving up breeding. Fifteen years ago he bought the stock by valuation at three guincoas a head for
ewes and two guineas a head for lambs. For the ewes and two guineas a head for lambs. For the
1,206 head sold ou Tuesday, £3, 370 or an average
within a fraction of $£ 216$, was realized; 688 ewes sold at from 86 s . to 548 as head ; and 500 lambs at
53 s . to 30 s . ; and 18 tups at $£ 5$ I5s. 6 d . to 5 . prices are the highest ever recorded at a large sale prices are the highest ever recorded at a large sale.
Mr. Clark, agent for the Duke of Richnond, was
prepared to purchase fifty ewes for a farm which prepared to purchase fifty ewes for a farm which
wiil shortiy come into hanan, the e teramt being gatont grace's steward, as well as many others, had to
leave unhanded. leave unhanded.
Sales of Livcoln Sheer.-At Lincoln Fair,
Sept. 15, Mr. Grimes, of Hurnston, sold 28 Lincoln rams. One was bought by Mr. Cartwright, Mether
ingham, for 40 guineas; the average of the flock
was $£ 167 \mathrm{~s}$. 6 d . The late Mr. Francis Marshall was $£ 16$ 7s. 6 d . The late Mr. Francis Marshall's
flock (23) averaged $£ 1314$ No 12 was sold to Mr.
Howard for 20 cuineas. Mr. Dickinson, of BranHoward for 20 guineas. Mr. Dickinson, of Bran-
ston, a small fock, averaged int 1114 s . 6d. ; the
highest price was highest price was 17 guineas. Mr. Thomas Cart.
wright, of Dunstan Pillar and Blaney, veraged 11 guineas, 16 gaineas being the highest price ram.
The Ingleby rams, the property of Mr. Edward
 At Caistor fairy, the Panton rams were sold, the
property of Mr. Henry Dudding, of Riby Grove,
near Grimbsy. These rams have over a century of near Grimbsy. These rams have over a century of
pedigree, and in 1874 made an average of $£ 3710 \mathrm{~s}$.
6d. for 70 rams, the highest figure for an individual sheep being 200 guineas, sold to Mr Thos. Russell,
of Auckland, New Zealand. On Saturday, 31st, rams averaged nearly 15 guineas; 34 guineas wa
the highest price, for a grand two-shear ram.

American Shorthorn Breeders. The Board of Directors of the American Short-
horn Breeders' Association met in Chicago, U. S A., on the 25th ult, to transact the business of the which convenes in the city on 22nd inst. The re
port of the committee on By-laws was port of the committee on By-laws was adopted
The committee appointed to confer with the pro prietors of the several herd books of the Unite solidation of the different books into one publica. tion, report that they had received definite propo
sitions from several proprietors. They had not re ceived any unconditional offers from Messrs. Allen and Briesly, of the American Shorthorn Herd Book,
nor from the Canadian Association. Col. Harris nor from the Canadian Association. Col. Harris
moved to accept the propositions of the proprietors
of the Ohio and Kentucky Shorthorn of the Ohio and Kentucky Shorthorn record, and of discharge the committee from the consideration report was finally laid on the table. Judge T. C. Jonas, of Ohio ; '. C. C. Hammond, of Indiana and J.
H. Pickreh, of Illinois, were elected as an ET H. Pickren, of Illinois, were elected as an Execu-
tive Committee. The Secretary was instructed to call for thittee payment of subseribed stock at the stockholdersm meeting of Nov. 22, and to notify the ockholders that at their meeting a proposition Association to $\$ 15,000$. The meeting having deciied to prblish a Herd Book, much time was spent therein. An effort was made to fix the standar at six crosses in this country to make any anima eligible for record, whereas under existing rules, of rules, with some immaterial changes, was finally
This Herd Book will be under the direct control
of the breeders themselves. S. F. Lockridge Secretary.

## otrmmerrial.


The month of October just closed has been one arm work that has ever been experienced in this put in so late, wherever there has been moisture nough to bring the wheat up, it is now looking vell, and in good shape for the winter
heat
Has ruled very quiet, and the movement has bee
very light compared with other years. The Monvery light compared with other years. The Non his country a lecture on the subject of "hoarding minion to abandon the policy of holding back their crops in the expectation of obtaining higher prices. The Herald reminds them: "That it is not Lone the probable condition of prices at a late
period in the season that the farmer ought to study; he must calculate the cost involved in toring his produce for six or eight months in order
to ascertain the advantage or otherwise of such a course. He has to allow in his calculation a considerable margin for shrinkage of the grain : the loss of interest on the money he would be able to employ if his produce were at once marketed. "Taking these items into consideration," the
Herald is of opinion "he will discover that an ad vance in the price of grain six or eight months
hence will not more than compensate him for the risk and expense consequent on the storage; and
if he carefully studies the present condition of the markets, the relation of supply to the demand, he conclusion will be irresistible that not only is he not justified in expecting a sufficient advance.
in values to atone for the delay in marketing produce, but that he will do very well if six months hence he obtains as high a price as is offered to
day." How far these observations are applicable to American farmers may be left to their own in-
telligence and to their own lively sense of self. in .
terest to decide. Wiest to decide.
With heary stocks in the principal English of buyers there to confine their operations strictly to the wants of the moment. Advices from the
West say "r receipts are large and shipments small with no speculative demand." There is one good feature evinced by the trade this fall, and that is a
growing feeling against corners and combinations.

The shipments have been will not be excessive for son very light as yet, and re kept reasonable, the demand will be quite e supply.
Another month of forne, dry weather has put this
crop in fine condition for the winter, and will be an crop in fine condition for the winter, and will be an
important adjunct to the farmer's stock of grain for feeding purposes.
clover serd
not say much ab
As yet we cannot say much about the prospects
of this crop. Reports are somewhat conflicting and when there is any prospect of a shortage remuch depends on the foreign demand, and the price at which this demand can be supplied, that it
is as yet uncertain at what price clover seed will
Commenting HOPs
Che Montreal Gazette says : "It is generally understood that with the ex. n no supplies of hope worth mentioning, and they have decided to restrict their operations to supplying immediate wants. As we have previ-
ousty stated, there is a natural inclination to take the situation quiet and easy, but whenever sales occur they show a strong market. Yesterday one
of the leading brewers of the city purchased a lot of 40 bales at 75 c . per lb ., which is the highest price yet realized for a round lot of hops in this
market. In New York the market is again very xcited, cable bids baving been received there from
London of E 24 per cwt. for choice American which has completely astounded the trade on this
ide of the Atlantic. The fact is now clear eno that England is even shorter of supplies than has been represented, and at any price she nust have large lot of choice quavity is repported in New
York at 85 c . per 1 lb ., and the excitement in the York at 85c. per lib., and the
trade there is unprecedented."
APPLESS.
There seems to be every prospect of a general There seems to be every, prospect of a general
scarcity of good apples, and prices are very firm. carcity of good apples, and prices are very firm.
Some of the winter apples coming forward, chiefly Greenings, are found to be badly specked, and are
consequently not fit to store away for long keeping consequently not fit to store away for long keeping.
Prices for this class of fruit will therefore have to
be shaded be shaded from those of other good winter varieties. Sales were made recently of a lot of 125
bbls. choice Baltimore at $\$ 4.25$, and bbls. good winter assortments at \$4. The sale is also reported of a car load at $\$ 3.877$, and a lot of 60 bbl. fall
fruit at $\$ 2.50$. A fair amount of winter stock is ruit at $\$ 2.50$ A fair amount of winter stock is
being shipped to Great Britain, and a considerable quantity is being put into store. The total ship-
ments of apples from Montreal to the United King. ments of apples from Montreal to the United King.
dom from the commencement of the season to 562 bbe 21 st , was 23,173 bbls ; from Boston, 35 ,ing a total of 109,984 bble. shipped from these three ports this season. Engagements are reported
by steamer from Montreal to Liverpool and Glas. gow at 3s. per bbl.
The market, after ruling very dull for nearly two nonths, has again revived somewhat. Sales have
been pretty free the past week; ranging all the way from 9c. to $10 \frac{1}{2} \mathrm{c}$. for August cheese, and 10 c . to 12. for Sept. and Oct. Those who hold off for a even this will hardly repay the risk and uncer-
tainty.

The local as well as shipping damand is good for strictly. The gois ; other sorts are not much
wanted. There has ben some choice lots taken by
Boston. and New York buyers for city trade at Boston and
good prices.

FARMERS' MARKET.




Rain and provisions.



 it does not
The reecip
will meet
at 85, and









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Dairy market.
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Liverpool, Eng., Nov. 2.-Per cable : Cheese, 59 s ed.
woonstock chesse MARKET.
 October and balance of season. The sales reporte,
boxes of September and balance of season at 12c.




 ing for 12 c. 20,000 boxes sold since last market diay in th
section, Sept. and Oct. makes, at 11 tac. to 12 c. Eight buyer




Live-stock markets
britibi markets, per cabli
Liverpool, Oct 20,1882 .-Supplies of states cattle have bee noderate, prime stock sold dupickly, lower grades dull.
Prevailing prices are as follows: Finest steers.
Good steers.

 reckored. Theep mat
frm as follows
Best long wooled

- $\begin{gathered}\mathrm{S}=\mathrm{C} \\ \text { Me } \\ \mathrm{Lnf}\end{gathered}$

Merinos and .............
Interior and
[These prices
croce. aus lon

 Top Canadian steers.
Top Canadian ste
Canndian sheep
American Sheeep...Cents 711
C. 16 @17
$\cdots .17$ @18


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AUOTION BATI

 Station, Grand Trunk Railway, on
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30 Head of Shorthorn Cow, Holfer also his entire stock of Working Borse As Mr. Miller is leaving for Manitoba, tho anale
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tigure for yourself.
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And

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very hargely both here






 the Canadian Office, who will then see that the eontract is signed and the n
contract, to be signed by the farmer, will be furnished with his application.
Parties desiring to invest their mones in any business undertakings, or requiring partners, either
silent or
seal to silent or active, with cappital, or wishing to dispose of their interest in established business, will do
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t per cent. per annum.


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