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 Conito need farmerst alvertisements, of agricultural imple-

 should be in by zoth of each month


## January, 187\%.

We thank our numerons patrons who have so promptly remittel their sulsscriptions for the present year-the 12 th volume. Your liberal encourragement and the thousands of kind remarks male by you in regarl to its usefulness and the thankful, and inspires us with new vigor to apply ourselves with greater energy to improve the utility of your journal. You all admit that it has every year inproved to the present time. The
volume for 1157 we hope to make better than any number that has yet appeared. We ask every friend to agricullture to aid ns. Many friends have kindly forwarded useful information and suggestions, for which we thank them, and hope, by following the plans alreanty pursuect of avoiding as much as possilhe the alvocacy of poitical party or particulist more of those who consider that our greatest and best atterition should be devoted to agricul. farmer aul his fannily to a stêp alove that which too many of them are now filling - ly so doing to alvance the interests and position of this lright jewel in the British crown, our Dominion.
This year we wish to give yon as much valualle information as wissille in each of the depart tments
previously taken ur, inn intenil to increase the inpreviously taken up, , and intend to increase the in
formation in reararil to foruit culture, and also to increase the household department, in which we fear some of our realers do not interest themsel ves in the reluses, puyzeses, anagrams, \&e., we alse who have not yet lone so, will, ly compriparing the answers with the questions in last year's volume, somn find anmusponent, and interest in this Heprat. enitural iep parturnent duriug the present year, sh that thase wishing to have the jourral hound at the
eund of the year may, hy giving us notice, have it
prefer the whole number as it is can preserve the
and have them bound at the end of the year. The year just closed has been one of peace an cially, our records will show a deficiency; our great cereal crop, although promising an abundant return, was reduced to a very sparse crop, occasioned by continued heat at the time of filling such as we never before experienced; our grain and root crop were reduced in ten days to from one-half to three quarters of what we might have expected from their appearance.
The great dairy interest has been remunerative The early part of the season had been so favorable was secured in rood order. A very large crop apples crowned the orchards
The prices of all farm products have been such as would in any ordinary season give a fair re muneration to the judicious cultivator. Even this year all products will yield a paying price excep the cereals and root crops. While the farmers of Ontario have had their potato crop much reduce in yield, Prince Edward Island and Nova Scotia have been blessed with a most bountiful crop, and runtity of our cereals will in mencel somewhat made up in the advanced price realized.
The manufacturing, mercantile, lumbering and railway interests of our country have suffered very materially during the past year, and many millions have been lost. This should cause young men to look at the prosperity and comfort of their hom and compare their safe banks of cultivated sai with the risk and hazard of trate or mechanic The opening up of a direct trade with Europe a step in the right direction. Our stock has bee rofitably shipped there during the past year; thi trade no doubt will rapidly increase, and we hope it will instil into the minds of all who have Ameri can proclivities that we no longer require to beg or crave a favor from Uncle Sam. We have given then too much and are giving them too much still Our country is capable of producing a larger yield of grain than the states can; also more butter and heese, meat and finer apples. With these re
 umble ourselves : Let each loyal heart scorn any and let the Americans delight in their own fisea freedom, political systems and prospects.
If only choice apples are properly packed and properly cared for after they are packed, and put on the European market in good order, there sure ly must be money in the business. We have heard of instances of our apples realizing $\$ 7$ per barrel, but we se by quotations in market report that a large ruantity has been sold at less than $\$ 4$, expenses amounting to over $\$ 2$. One lot that was
shipped from this city only returned $\$ 1.50$ per barrel to the shipper, after paying costs. It is possible for those who have carefully packed thei pples and kept them at a proper temperature to hip as soon as the season win permil, in the spring ng rest We have often thought that a rood cide ottling establishment would pay well, and won dered why some one has not attempted the busieess, as we have tasted cider made from the fruit of trees planted by our own hands that we consid red quite equal to champagne that cost $\$ 4$ pe bottle. Some will use liquor despite the attempt to prevent it. Would not the use of cider preven in a great measure the use of so much fire-water and would not the money do more good to Cana dian fruit-growers to use cid than to sond ou purchase lager beer?
The prospects of winter wheat lasted well in th all. A large breadth has been sown. It is now nicely covered with a good blanket of snow. Price of produce generally are most likely to rise. Th over crop this year will be light, both in regar quantity and quality. The demand will most probably be in excess of the supply. Prices must be high. We should not advise our readers to sell till the first or second week in February, as the marke will be full business of clover is done sbout theipal shippiog will fully maintain their pricess and most probably advance, as the crop and stock have been generall light this year in фther parts of the world.
The butter and cheese markets are both firm and will probably remain so till the next season' supply comes to market.
Patoes in Ontario will command an unusua price in the spring.
The great apple crop has not been turned to half the profit it should have been. Many people handling of understand the market or the prope Some may make a little; some will lose, their ow

## New Brunswick.

STARCH.-The starch factories in Aroostock have manufactured at the Washburn factory

| Marysville | $"$ |
| :--- | :--- |
| Cariboul |  |
| Fort Fairfield |  |
| Limestone |  |
| ". |  |
| Pigewater |  |

Limestone
Bridgewater
sque Isl
Total.

250 tons
300
$240 " ،$
200
$100 ،$
100
290
20
1,480

We are, informed that this jear it has taten but starch; hence there potatjes to make 100 tons of to all the factories. These at 25 cents per bushel makes the shing littie sum of $\$ 81,400$ distributed small amount in comparison with the a which can be realized by the derolopmont of our resources in all directions.

Draining-Is there any Profit from it ? We cannot properly answerthis query by a mere affirmative or negative. Either answer depends on circumstances needing explanation. Some land is naturally sufficiently porous; such are light soils, sandy or gravelly, or of light loam. They do not labor thrown away.
labor thrown away
of lands that need it, and from the the drainage such lands without drainage profit is not to be expected. Tenacious soils, such as retain stagnant water at periods during the vegetation of crops, need draining. Stagnant water in the soil or on its suface is detrimental to genuine plants and should be drawn off by aflording free means of its passage through and from the soil by drainage. It is ne air and a certain degree of heat is germination and growth of plants; but the re quired moisture can be had without the retention in or on the soil of stagnant water. Let us bear in mind that the fertility of the soil depends on the suitable warnth of the soil ; the soluble ingredients of manure ; and the chemical action in the soil of air, and of water holding it in solution. The the soil whicl see from this view of the subject vegetation. which the rainfall does not penetrate is throug it. The rain water bears with it in its descen tilizing matter from the atmosphere, and in its aris dual descent throngh the soil these fertilizing mat ters are left in it for fool for the plants. If this gradual descent be impeded by the harduess on tenacity of the soil, and merely flows over it, this supply of nutriment is wasted instead of fultilling the purpose for which it was designed. And this and yall may penetrate the surface of the ground may actually prove injurions if wo regetation, passing through the soil ly matural , hectitia outlets, remain in it till it is drawn off by arime tion, the heat needed for vegetation is sensild diminished ly that evaporation, and thus veretation is retarded and injurel. And in some casses stag nant water is productive of still greater detriment The seed rots and perishes in the soil. The transition from the germination of seed to its being kille not ciflucult, nor does it reyuire a long time.
Nain water, as we have seen, was designel to infs plants fertilizing the germinating and grow briuging our soil inte paper Shall ave, by 1 ecption, permit the ammonia, fresh air, warneth and other elements of fertility to escape without doing us any service? Shall we, by not breakinw theme the hard soil and affording easy passing thromgh it, cause it to lie within it stagnant to the sreat detriment of our crops ! Or shall we, by incurring an ainse that we may reasomably expect to be re sary as to reure the soil hy draining where neces of much heavier proluce? This is the question in the culturery one who has had any experienc said need draining has learnelt to luch as we hat tional lakor and expense required to the athic produce crops at all erpual to thióse grown from the chat needs not drainage. And he must know the much greater mucertainty of raising a paying crop,
at all. The quality of the soil may retard his labors. He may not be able to plough whet plonghing, if it could be accomplished, would be causes he may be delayed days, or even weeks, in sonve may result ing ; ant sten atelay in our climcrow Besiles, as we have alrealy fallure of the
tility of the soil and 'its capability are serionsly lessened,
light.
Draining is expensive. The cost of draining many acres as it would thoroughly train From estimates of the cost of thorough draining carefully prepared we may put the cost at $\$ 50$ per acre. The prepared we may put he cost ac wrately actually when accuratele:s
cost little from these estinates. As the drainage is a permauent work, this cost camnot be fairly charger to one year's account. It should extend over a
number of years. There have been instances i which the entire costs of draining were balanced by the improvements incrops in two or three years; but such instances must be few; but a farmer divid reasonable improvement in his produce fron the Irainage, will see at once that there is anfit Iraining.

Imports and Exports of Agricultural Commodities.
given a review of the Board of Trade Returns, re fers to the general effect of tigures given. The newly issued returns, he says, express so pithily the general condition of the country that he for once breaks through the rule, and states that in the ten months of 15,6 previous to the report the value of exports of British and Irish produce ha been 10 per cent. less than in the same period las year, and more than 10 per cent. less than in 1874 While the exports have been so much less there has emark that while the balance of trade canmot but the wrong side in England, it has been the reverse in Americi. There the rependence of the country on other nations for manufactures, has been lessened Their importations have greatly decreased, and thi But itisisto theimportationsto Englando! agricultura) commodities that we would refer. England imported live stock to the value of $£ 6,400,000$ in roumd numbers. These figures tell us of the vastness of that market opened up to the stock-feeders of Canala. In bacon, hans, and salted pork, the im portation has been eyually great in proportion. The
value of butter importel has been value of butter importel has been one million in
excess of that importerl in 187.). In the importan excess of that importen in 1875. In the importa-
tion of cheese there has been a failling ofl, more tion of cheese there has been a failling oll, more
attention being now paid to cheese-making in Britain.
By far the greater portion of the commoslit es im States supplying over Aorth America, the United value over 9 millions of pounds sterling, and British North America supplying over 2 millions of ewts. value $£ 1,081,961$; and barley, oats, peas and bean it stantes are really Some of the articles classified as it states are really Camadian, haviug been importe into that country from Canada, and they reaping a and recciving eredit for them, as if the products of their own country. This business is passing away to be derived in shipping Cearned there is a profit o England from the ports of the products direct hose products are konown in Dritish minion; and Conadian aud appreciated as such. To this an very creditable display of Canadian products a the Centennial Exhibition has contributed no little. The policy of maintaining the credit there obtained cannot be too forcibly inpressel on the minds of agent of this trade it is meceessary above all thing hat no inferior commedies that have not fairly
prepared for market to be shipped to England. Engliswe of fair play is proverbial, and we should see to it that all our dealings with that country be charterized by the same spirit. Fair dealing on our part and the supply of really good articles of produce will ensure for us the
market, for our increasing surplus products.

The Prospects for Supply of Food in the Future.
Producers have for some time been considering he question, "Where shall we dispose of the surplus of our farms?" while men thinking themselves with the cyuery, "Where shall food be and others uture generations?", With them there is a terrible read of a superabundent population, and a conse ruent want of food. It is not long since we had such $a$ cry from the United States, strange as it might sound from that land where vast prairies are yet uncut by the plowshare, and yet there a wise man xpressed his dread of a coming time when the arth would be incapable of producing food for its whabitants. It is no new thing: it was the repidition of the doctrine of Malthus, discouraging arriage, from a dread that the world would soon comes a similar note populated. And now, again, nidable array of figures. A man wise in ar Sr. Hawksby, in his address to the Social Science Congress assembled at Liverpool, expresses great larm at the increase of the population in Encland. He takes up the question as one of simple arithmeic. He finds that the increase in 70 years has been 4 millions, nearly 1.35 per cent. of an annual incrase. He computes that the population of Enghad will have become 42 millions at the end of he first generation, and that at the end of the If these cxpectations be bealied than 400 millions. expected a pretty himbla be of tlour and a roast of beef. NVe will pany Mr. Hawksly in his calculations to the close of the twenticth generation, when fifteen worlds thel as this of ours would barely supply food to the increased population.
We have no dread of such a future for our little earth, though the people of the "tight little isant have increased at an average of 1.35 per waiting the hand of the tiller of the soil to give ool to the increasing numbers of those generaHons. Ile neen but refer to the unoccupied lands A orth and Central America. And more than ces wed nd had becn teeming ind agricultural produce, ings, are now almost wholly deserts han be hatural sterility, but from causes that may be verted. We would merely name Syria and Asia finer as instances of this reversed condition. We ave not taken into our reckoning the increased supplies sure to be obtained from improvements in griculture. Even Britain, great as has been her rogress in the science and practice of farming, ay increase her produce one hundred per cent his we have on good anthority.
May not Mr. H. have been led astray by his calNations. The history of the world, past and The ro, s he popuation of England may increase with the ffairs in other countries. We need lut look to the continent of Furope, and to France as nation, where, if there has not been a falling off in the umbers of the people, there has been, to say the States the increase has been, not from families of
the old stock as in Englani great increa other hand,
crease. The which an inc While we lation such a look forward land and Can
all cur surpl couragement couragement

## Crossing

An object
proved live and their ina and their ina could, it is sa any amount ing. The ob ing. The ob
anced by the proved stock treatment the
erate the own in their care is true, could live on pastu Shorthorn or price in the by a judicion "grades" ha tages to bede been also ma by crossing that the offsp their domest while inherit making guali
sult has been sult has been demonstrated the cross of gentle dispos rich milk. excellent bull of any of the quality of m he made. In
ally in How ally in How
buffalo stock louffalo stock
the clairy sto with the buff the half-bred teen quarts p equaling the a given propo
Mr. J. W. county, Neb ness, having great value great valu that besides breds possess flesh and fat The progen
bred Shortho hardiness a
the buffalo, the buffalo,
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The trate
is rapinly inc
arcan inperta
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stan
the old stock, but from immigration as in England, a condition of society prozuctive of a great increase of population, and there is, on the other hand, a condition unfavorable to such in crease. There are natural laws in accordance wit Which increase or decrease may be anticipated. While we have no dread of an increase in popu hation such as that predicted by Mr. Hawksby, we or formard tosuch an increase of population Eng all cur surplus produce and give usud demand fo couragement for a progressive imp suficient enriculture.

Crossing the Buffalo With Milch Cows An objection frequently brought agaiost inproved live stock is their susceptibility of disease, orther inabinty to bear the extreme rigor of could it is said. The old stock of the country ny amount of hardship degree of cold, endure bred animals renuire good shelter and hish for ing. The objection, we hold, is more than bal aced by the comparatively great profits from im proved stock. If they do need and receive prope reatment they bring prices high enough to remun rate the owners well for the additional expense in their care and feeding. The old native stock, it
 Shorthorn or Hereford would be starvation to a become fat, never make beef to live, but never price in the market. Attempts have been mad by a judicions mixture of breeds to btain a clas of animals alike hardy and profitable, and some "grades" have been found to combine the advan tages to bederived from each parent. Attempts have been also made lately to improve the well-bred cow crossing with the buffalo, with the expectation their onspring would retain the property of while inheriting the parent as good dairy cattle, making gualities of the buffalo. The desired re sult has been obtainc 3 .
T'urf, Ficle anl frarin says:-It has been fully the cross of the buffalo with milch cows are of gentle disposition, and yield a fair amount of very rich milk. The malc produce of this cross make excellent bulls, and when crossed witi good milkers of any of the milch families yield largely of a rich fuality of milk, from which the finest butter can elly in . Th certair sections of Nebraska, especi dly in Howard county, half and cuarter-bred the dairy stock of that State, Notwithstanding with the suffolo the half-breds yicll an averate of fourteen to six teen quarts per day, the milk being of a rich and ine Havor, making the best butter, and very nearly equaling the Jerseys in the quantity obtaiued from given proportion. These facts are obtained from 1r. J. W. Cunningham, formerly of Howar ounty, Nebraska, who vouches for their correct ess, having largely experimented with these hal nd quarter-bred buffalo cows. This will prove of in the far West, and notally so that besides the dairy qualities which these fact breds possess in a remarkable deiree they tabe Hesh and fat rapidly, and make excellent beef.
The progeny of the united strains of the well red Shorthorn and the buffalo pessess the extreme hardimess and good beef-producing properties of the Eanglish Shortlorn.
The trate in hurses between England and Canain


## Drainage in the Valley of the Thames

 Mr. A., from near Chatham, in a late visit to telling us of the good accomplished by the drain ge that had been carried int in the drain country. By removing the obstructions and deepening the beds of the natural water courses and still further deepening the main channel for carrying of the water, a very valuable tract o rich land, in the townships of Raleigh and Dover extending fully five miles along the river, ha been rescued from the dominion of the water and onverted into excellent farming lands, so tha undreds of acres that had formerly borne only carse grass and sedge of very little value, now produce heavy crops of corn, barley, oats and time a waste, unhealthy morass, fields from 100 to 150 acres each in area, bearing than are seen elsewhere even in that fertile section of the country. The profits from the drainage must have been great. Though we have not at and the returns of the cost of the drainage of hat locality, we know, however, that the estimated cost of draining such marsh lands unde The Act Respecting Public Works of Ontario," 7 cents When we realize the value of tha to be drained proved by draining with what had been its value when covered with water, we must arrive at the conclusion that no other outlay of public money has produced such profitable results. We think that were the Legislature to encourage drainage of lands wherever it is needed by advancing money or the purpose at a very low rate of interest, while he investment would be safe beyond the possisility of a doubt, the profit to the country from he improvement of agriculture and the largely in reased yield of the staple products of the country hably be formed by ay burei. agriculture: Our farmers only require to be en abled to carry out any needed improvements in griculture, and any a tvances made for that pur pose are sure to be repaid many-fold.
## The Canadian Winter Port

The first Allan steamer, with Cauadian mails Which had travelled over an all Canadian ronte eit Halifax on the 3rd of December. After this he mat matter will go or come by Portland ee misure of the Dominion have in a voice not to are. When wed insisted on this patriotic mea tanadian work repe fortect the opening of that great indepculence of other ports or P. R. lines than our wn in communication with Europe; wonths our anticipations have been realized. We ver hat a doult, of the inestimable value of that reat undertaking in linding with londs stronger man irm the separate inembers of British North Ontario the distant Maritime Phed to supply fro ocessary commolities that the neighboring Republic had leen in habit of supplying, and the lay is not far listant when the coal and fish o Nova Scotia will be a staple article of the freightage "that tine of our consumption. It was held mutil Wely that rain way travel would be impossible in Crenlonial bas been coutructel, oy where the fir heary nnow-falls, hut every , 1 the rrenuity could devisu has heen taken and oped, will be snccessful. Between Monctom and recterl. The snow-fonces will be fully twenty cight miles long. Liberal sapplies of snow-plows
nd ice-scrapers have been provided. Those required in the northern part of the line are at the now-sheds and snow-fences are we work. The completed, and the whole number of engines of the oad may be engaged solely in dealing with the tratfic of the line. The coal sheds along the line re now filled with fuel, and a coal train goes north aily to keep up the supply. All that foresight dabor and money can do to provide against a now-hlockate of the line in winter has been done. $A$ sum of $\$ 200,000$ has been expended on the snowhels and fencing alone. We learn with pleasure pectations. Already very considequal to the exish, gypsum, grinistones aud incicultural prights of ave passed over the line, and other commodities of he Maritime Provinces only await the application capital and enterprise to ensure a greatly inreased business. The natural resources of these provinces in minerals and fisheries will doubtless aake them the centres of active industries, and he abode of a prosperons people. There is nothing prevent the iron and coal of Nova Scotia being worked to great alvantage. English capital will end the fimulating Canalian industries, f developing these indur pa good market for the ecricultual popening Ontario.

## Barley Dull.

As day follows day, and market succeeds market, ort. In the rey dull" meet us in the market rehoted one report of to day, barley prices are hadred poumds. At this time it forty cents per ay the farmer better thian wheat may be said to ound; but still the market for barley is dull. either in Canada nor the United States is there he same brisk demand for this grain that there nuch lower crop of 1875, and the prices are very rior quality of very many of the samples that are sent to market. It is a fact well known in the grain trade that a large quantity of any variety of grain of an inferior quality depreciates the market price of samples of that grain that may even be A No. 1. When farmers have learned the value of arley for feeding their farm stock and use their bogralel uater parpose, if from ary canse it is to hone to market but eally expect not to see the market samples, they may the demand will then be brisk with "Barley dull; prices. The value of feeding larley is but little nown here. We have till now been compelled by the want of gool markets for our beef and mutton rely wholly on the cash received for our grain, hiefly our wheat, in our own markets. When the pices realized for Canadian meat in English mark. ts shall have tanght us what are the profits feeding cel, we will learn that there is a profit to be train, as the farmer band inferion Another cause of the bin britain.
havin" been brought to tey market being dull is ties earlier in the season than usual. The partiailure of the wheat crop compelled farmers to They hat hased their calculations on wheat crops such as they had been used to harvest. In this they were disappointed, and the barley was taken ro market that would, were the circumstances otherwise, have been held till later in the season. The ruled low $M_{\text {asters }}$ hed peculators were the only buyers. The stocks in the hande tiater in the season. pretty nigh exhausted, if this opinion be correct
what they yet retain may command higher prices, This view of the dulness of the market furrishes another proof of the correctness of the couns be diversity of crops. The farmer who had barley to convert into cash when disappointed in his wheat crop found it to be well to have such a diversity, and not to rely on wheat as almost his only grain crop.

## Hints to Dairymen-No. 11.

Written for the Farmers' Advocate, by J. Seabury Every factoryman and dairyman will now have his past season's work wound up, and he now knows what have been his successes and failures during the past year. He can now take a caln and collected review of the summer's work, and see wherein he has succeeded and in what he has failed. Have you been successful on the whole cess, and what would be the remedy? It behuc every one to look back over their work, especially at this season of the year, and endeavor to profit by past experience. Experience is the great educator of the dairyman as well as the business man Every one should endeavor to profit by his own experience, and watching others who are successful and follow their example as well. If he does not do this he will not be very likely to make his mark in the race of human life, but will in all probability fall into the background.
In the Oct. number I remarked that a large number of the curing rooms throuchout the country were sadly deficient. I will now endeavor to point out the evils and their remedy. The great majority of the buildings now in use for the manu-
facture of cheese have been constructed on entirely wrong principles and withont any regard being paid to the convenience or comfort of the maker either in the making or caring rooms. Things have been put up in the most haphazard manner, and as if they fully expected the business to be a total failare in the course of two or three lyears, and it therefore made but little difference how or where things were put together. The business has now become sufficiently well established to put all such ideas to flight and warrant the erection of permanent and substantial buildings. But even the past season I have met men who had the idea caused the extremely low prices. case, and large as the make was, especially the first three or four months, and a large portion it very inferior, it has all gone into consumption, and we shall in all probability see a very bare market by the time that the new cheese begins to move.
In many instances, too, it is the fault of the patrons as much as the owner of the factory that the building and apparatus are not up to the mark. He has not met with that hearty response and cor dial support from them that he should have had, and which are really essential and necessary for the prosperity and support of a good factory. Many patrons seem to be jealous, and afraid the Supposing he does be anything the poorer for it? money, will they will benefit him will be very likely to bent that And, besides, if he does make some money he will be most likely to lay it out in enlarging he improving his present business. There should be a better feeling between the factoryman and the patrons. They should stand by him and support him heartily, giving him to understand that they are going to support and furnish him with first class milk, and that they expect him in return to hurn them out a first class article of cheese, And
do not be afraid that he is going to make money out of you at your expense. Too many are afraid of this; if he does well you are very likely to do well also, and the better he does for himself the port him so much the better he can satisfy you. The so much the better he can satisfy you. most objectionable. The whany factories are yards are much too close the factory, and are kept in a most filthy condition, and open to the air, with every breeze wafting them through the open windows where the night's milk lies cooling. After this milk is made up into cheese it is carried ame, and in which, on hot summer's day the thermometer is standing at $90^{\circ}$, and on a cool rosty night it will run down to freezing point beore morning. Many of them have nothing be tween the cheese and the sun's rays but the shingles and sheeting, with a single board wall hrough which one has no trouble in seeing dayight. How can cheese tarn out well under such reatment? It is utterly impossible. It is no wonder that June and July cheese are off flavored,
and the only wonder is that they turn out as well and the only wonder is that they turn out as well $s$ what they do.
The cheesemaker should have full control of the temperature of both making and curing rooms,
but especially the curing room. In order to have his the room must be well plastered overhead and horoughly ventilated from the ground floor up through the reof. The windows should be so contructed as to be opened or closed at pleasure with out throwing a draught on the cheese. This is best accomplished by putting Venetian blinds on
the outside of the windows. A room so constructed the outside of the windows. A room so constructed can be kept below $75^{\circ}$ any time during the hottest A leading factoryman of On-
tario informed me this summer that he had kept his curing room down to about $73^{\circ}$ all through the hottest weather the past sammer by the careful and proper opening and closing of his windows and ventilators, and by the use of ice ; a piece being laid on the grates of each of the ventilators on the lower floor. Now if one man can do this every factory can do the same by having the proper apliances and using them aright. There is not a point more important in the curing room than the ontrol of the temperature, and none more constantly neglected by factorymen and cheesemakers.
The demand for fine cheese is constantly incrensThe demand for fine cheese is constantly incrensg, and buyers are becoming; every year more very factoryman to be well wide awake to the wants and rovire times; and wide aw
trade.
It is
It is a standing complaint among cheesemakers that their patrons are not accustomed to cieanliness in the farm-yard and with their milk vessels, untit for the production of good cheese. The maker should apply some of the rules which he has been trying to inculcate into others to himselt and is own surroundings. The ideal cheese factery cool and balmy, with pleasant surroundings, and very pan and vat dazzling, and the floors, presses, c., spotless and undefiled. Let him begin by setting his patrons a good example, and then what he says on the subject will carry very much greater eight with it.
At the closing meeting of the Utica Dairyman's peakers made the remark that "thene of the peakers made the remark that "three elements ory. These are, good milk, a good makese fac ory. These are, good milk, a good maker and a ancy article out of poor miik, and a bungling alesman cannot get a good price for fancy cheese" These are pithy remarks and convey a great deal
in very few words. If every patron could only be made to know and feel the importance of sending nothing but good, sweet, honest milk it would be comparatively easy for the maker to turn out a first-class article, and still easier for the salesman to sell his cheese. However, I would strongly impress it upon all factories the importance of having but one salesman and he a good one. Let him have full power to act and use his judgment. Do not hamper him in any way ; he may make a missame sometimes, If he we are all liable to do the same. about it, he will not be apt to repeat it Another thing, too, when you have a repeat it. keep him ; it is a great mistake to be changing It is something which requires some little experience and it is also a great advantage to be well acquainted and familiar with all the buyers that are in the market.

## Hard Times for Farmers.

J. B. H., in the English Agricultural Gazette, directs attention to "the panic among farmers." The
year, he says, will be " memorable not untoward seasons, but also for its panic among iten ant farmers ; in many counties there seems a versal scare." As the farmer in Canada is not only the cultivator of the soil, but the proprietor of the farm he cultivates, his position is very different from that of the farmer in Britain; there is, however, much suitable to all in J. B. H.'s retrospect of farming in past years, and still more so in the remedies he prescribes for the future. Throughout America, as well as in England, there have been price of grain. Farms here season and a low cultivation, with small acreage returns large areas of price of wheat has caused a deficiency in the low of farming, as in Canada we have been accustomed to farm so as to render the question of profit a very doubtful one in a bad season such as this has been, even though we are owners of the farms, with no rent to pay; and the acreage labor is not a large tem in the farm account. The remedy proposed is so consistent with common sense that we give it of the writer's words :-"A man who, off a break f inferior of weat, has grown less than 300 qrs. of $£ 1$ a qr. in price, or $£ 300$ likely say yes. A loss be ruinous to him, and if a year, will probably 100 acres yearly of this most expe grow this will be much pitied; but if, instead of following his old custom, he had recollected the comparative high price of spring corn and meat-if he were to leave part of his grass for another year, and sow a part of his wheat stubble with peas or beans, vetches or turnips, he would be able to keep more stock, he would save expense, he would improve his land, and would probably find after a year or two that his reduced acreage would bear a more remunerative crop of wheat. A poor crop of wheat is the most expensive crop that can be grown, whereas in feeding at the present price of meat, be utilized market on four legs instead of in sacks send by these means the low price of wheat may be tided over with advantage."
Such a course as here
or reverses, that we may farming as in other businesses, has occasionally in our own experience, and that of many good farmers, to guard against hard times. A similar course wo have ere now recommended as that we give un der the authority of the Agricultural Gazette.
Messrs. Snell, of Elmonten, county of Pee made a good sale of Berkshire pigs recently to eighteen pigs realized them \&1,800. Six of these were only six weeks old.

## Ontario

 The Fall Te growing instit aminations the 20th and 2 Lists - the nam merit :-Agriculture.-
Gardiner, Buxton,
 Zorology 1 st $\begin{gathered}\text { ol } \\ \text { Warren, } \\ \text { Naismith }\end{gathered}$ uxton, Fitton,
Veterinary Veterinary, An
mith, ind .arpen
Ferguson, Graham tance of sending for torn out a ould strongly im: portance of hav. od one. Let him s judgment. Do may make a misliable to do the on't worry him to ave a good one to be changing. age to be well acage be well ac-
rmers.
tural Gazette, ding farmers." The e not only for its
panic among ten ere seems a uni proprietor of the is very different B. H.'s retrospec more so in the re. Throughout there have been eason and a low nt large areas of urns. The low
ney in the profits been accustomed as this has been, farms, with no remedy proposed e that we give it who, off a break less than 300 qrs . say yes. A loss led to grow this of following his comparative high he were to leave
and sow a part beans, vetches or p more stock, he
mprove his land, year or two that $p$ of wheat is the grown, whereas
always be utilized always be utilized
meat, and sent to in sacks, and by
nded as a remedy $t$ occasionally in many good farm A similar course that we give
ral Gazette. county of Peel, pigs recently to
dalia, Missouri . Six of these

## seed Wheat.

The question is frequently asked by our correspondents, Which is the best spring wheat to sow? varieties are found to question to answer, as some rove a pailure in to well in one locality, and eety among farmers to procure some grest anxof spring wheat that will surpass the new variety ven varieties, as in many localit'es the present varieties have ceased to be remunerative. The seedsmen are trying to procsure any they can hear of benefit to the country. Our Gis likely to prove pleased to learn, have secured samples of nearl ill the varieties of cerfals exhibited at the Centen nial Exhibition from foreign countries. A portio or probly tested at the Government farm; rantage Serserd may be found to be of a ng to intan or seedsmen are also attempt Messrs. S'ier.l Brothers more suitable varieties imported at large quantity from Monat this year esota. 'The spring wheat raisel in and Mir hore traluable for flouring tha wher Ont ario. The change may be of alvantare $W$, H. Brown, of London, is importing a dety from England, called the Mainstay wheat also the Odessa wheat. Perhaps some of the othe seedsmen may be importing other varieties. By ome the Mainstay is claimed to be both a spring and fall variety, and to be of a most hardy and vigornaure. The wheat known as the Red Chaf is yielding very well in many localities, although The hardinsss and equal to most other kinds in some localities for it in have caused a demand liscarder. The heavy- In other localities it is as the Chillian, or, as some call it rieties, such, generally condemned because of its fatty nature The Rio Grande, the long, open-headed, bearde wheat, is known under different names. It i not a general favorite. The Red Fern, or, as som all it, the Golden Globe, appears to be in much emand in localities where it has been introduced. here is a company selling the Egyptian at enor well fear Collingo wheat appears to have done some other parts are , not sow it arain. Many comporable. Some will fife wheat; still, our impression is that the old yet a larger variety of that wheat sown than any

## Ontario School of Agriculture

The Fall Term of the winter session of this growing institution closed on the usual written ex aminations on Monday last. The subjects of lectures were held on Wednesday and Thursday, the 20th and 21st. The following are the Honour merit :-



 seconi year. Agriculture - 1 It these henours, Lint
 Voteremboy


CRamadian Aquifultural ghotes.

## Ontario.

Mr. R. R. Saul shipped a cargo of very fine shee market.
At the Guelph Christmas Fair on the 13th inst.
about 1,000 head of cattle changed hand ranged from $\$ 3.50$ to $\$ 7.00$.
The prospects for the cattle trade with Englan nonth of Noved from one small item: In the month of November 2,600 cattle were fed in th
cattle-yards of Toronto for the English market. Upwards of four thousand barrels of Canadia
apples were sold in the Liverpool wholesale mark apples were sold in the Liverpool wholesale market in one day, the 29th November. Prices range
from fourteen to sixteen shillings sterling per bar rel.
made last week from Goderich. The Internationa sent 510 tons to Chicago, and 1,241 barrels wer
What the L H \& Paiway
Arrangements are made by capitalists for building large steam flouring and grist mill at Centralia, power is to be sufficient to drive four rinot Th and to be in working order by next harvest.
The Agricultural Department estimates thi
 ear's yield.
Pork Purchases.-Mr. Lees has bought of Mr ld, weighing 2,396 tts., at $\$ 7$ per 100 ths. ${ }^{\text {the }}$ This is a very unusual weight for pigs of such age, as they
averaged 267 tts., 225 ths. being considered a very arge weight. Mr. Lees. also purchased seven, of eleven months old,
weraging 305 tts .
Shipmevt of Pbas.-During the last week Mr.
M. Warner, of Ginel ool thirty-five carloads of has shipped for Liver was made by Messrs. James Sharpe, Thos. Hath cily, jr., James Snider and Joseph Lynch, who Mr. Warner says he will challenge any their work. house in Canala to do it as quickly, where they e bagged and teamed.
Fifty-seven thousand pounds of poultry, intended
or the Boston market, was shipped ville recently. It was purchased by foom BrockSmith's Falls and Perth at the recent poultry held at those places.
A Large Prize Taker.- Mr. Walter West's
fat cow, which was sold to Mr. Geo. Hood, and by liim to Mr. Britton, of Toronto, for $\$ 176$, appears ring. She took, as a threesful animal in the show
first prize at the Gat heifer, the the next, this fall at the Hamilton Provincial year; hibition; again she was a prize taker as all Ex year-old heifer at the Western show at London ; this year; and at the Christmas Fat Cattle Show held on Wednesday took the first as a cow, and the sweepstakes diploma for any age. She is now four
years old, never had a calf, and weighed when sold
to Mr. Britton, 760 Ibs
A New Implement.-The Spectator says :-We township, has invented and is manufacturing most ingenious combination in the shape of a combined gang plow and cultivator, which promises to
revolutionize that branch of farm labor. principle upon which it is worked is at once ver ingenious and very simple. The gang plow can be
removed and the cultivator attached or at any moment, and the mod dus operandi is such that boy, and who is given perfect control over the cul an exhibition trial of the combination was witnessel nn the farm of Mr. James Gibson by many of the most prominent farmers and most skilful plowmen approval of Mr. Richiardson's invention.
The Bar op Qunvtr.-From-the land adjoining
this beautiful bay is grown the best barley on the contieant. Of the bay itself a writer says say on the
Ontario and the Bay of Quante ought to be the de.
light of tourists-always cool and bracing, they af ord a most enjoyable change from the hot, enervat
ing atmosphere of crowded cities ing atmosphere of crowded cities. This, bay that
stretches up so picturesquell among the hills of
Prince Edward and Hastings stretches up so picturesquely among the hills of
Prine Edward and Hasting counties to receive
the waters of the Trent, is really a lovely sheet o the waters of the Trent, is really a lovely sheett of
water-I doubt if there is a finer anywhere on the
continent

## Quebec.

Shipment of Potators from Sherbroone Twenty-two hundred and forty-nine bushels of po2. Of this shipment, two thousand bushels were the States. From the amount of the shipment roductions of the Eastern Townships.
A Glorious Country.-A Montreal correspon-
dent of the St. John's News, in a late issue writ ing of the opening of the Quebee, Montreal, Ottawa \& Occidental Railway, says:-"'The country south
of this is a glorious country--the garden of Quebec; of this is a glorious country-the garden of Quebec;
and much as has been done for it,
more for itself. has done still
But it han a hundred miles in width, countiguous to a which the new railway is to pass, and which it will be the principal means of developing, has no interational boundaries. It is all our own, stretching rence to the Arctic Circle. The broad St. Law.
before it-an almost insurmountable ob stacle to enemies in times of war. The new rail. way, when completed, will communicate directly vinces will be one as they never were before Their interests will be in common, and the imwinse back country, rescued from the Provincial of the world in the impressive light of mere bulk." What Rallroads Haye Done for the Farmers Eaton Corner writes:- Instead of getting $\$ 8$ or $\$ 10$ cents for lambs and all other kinds of stock in the two-year-olds, and $\$ 100$, and in some cases $\$ 200$, for a yoke of oxen; and still people say it is hard thing for, now bring 40 or 45 cents per bushel. have lessened the supply of beef, which had been greater than the demand, by taking so much to
foreign markets This the demand, as what the Must consequently increase not consumed in our markets, but takes from such and brings so much more money to be spent in our country. From $\$ 1,000$ to $\$ 10,000$ have been paid prices are now 40 to 45 cents per bushel. We could

## Prince Edward Island

## the she was a lively time here this week amon

 bushels of potatoes on the 12 th thand away 20,000 4,000.those of them who are farmers, have no dould noticed Mr. Angus Gregormers, have no doubt
combined Fanning Mill and vertisement of a Gregor, with commendable enterprise pura Mr the patent right of the machine for this this province
As it is one from which the for As it is one from which the farmers of this Island
can derive great benefit, he ought The Fanner and benefit, he ought to be encouraged
been examined by past, we are informed been examined by some of the we art and mosmed in
telligent farmers and millers in the country, and
they and they all considers and that it does it its work well. . The
importance of keeping up the character. grain in foreign markets, and if character of ou
of the very best gaving seed grain of the very best quality and free from weeds,
cannot be over-estimated. Mr. Gregor's Fanners and Separator will prepare Mrain properly for the
market. The farmer if he wishes can by it means, have for seed the very best of cane by its laises. It is easy to see that a combined machine uperior to two separate machines. We trust that
Mr.Gregor'sspeculation will bects. arming community and a source of profit to to the self. He in an energetic and enterprising to himes
nan. The firm of which nar. The firm of which he is the managing
parner, has in operation in New Ge team factories, provided with the best wood and ron working machinery. To such men as Mr. ngus Gregor, in the different departments of such men it must depend to keep it in the van of

Ftock and gaity.
Wool and Woolen Goods in New York.
From the statistics of the importation of woolen
coods at New York we see that there has been a doecrease New york we see that there has been a 18ake no comment, but drect the especial atten
maion of our readers to the fars. tion of our readers to the fact that there is a a large
and annually increasing increase of manufactures and annually increasing increase of manufactures
in the United States. The Michigan Farmer diin the Unted States. The Michigan Farmer di-
rects attention to this subject in a leading article, which we abridge, as follows :-
The statistiss of the importation of foreign dry
goods at New York, when examined indicate change as going on, which, in our opinion, has bearing of much interest to manufacturers.
also has a very considerable interest for also has a very considerable interest for the woo
dealers and wool growers of the United States A comparison of the amount of woolen goods im ported in the ten months of 1876 , which have just expired, with the importations of woolen good
for the corresponding periods of 1875 and 1874, show a decease almost equal to 33 per cent. in their value. The fact stands prominently out tha the value of the woolen goods imported during
the ten months extending from January lst to Oc the ten months extending from
tober 31st, 1876, was as follows
Manufacture of wool entered for con
sumption
sumption
Manufacture of wool entered for ware-
housing
housing.
Total importations..
\$12,003,999

The importations for 1875 and 1874 for the cor
responding periods of those two years was as fol

Totals. ......... $\$ 28,510,313$
Deductimportation of is
$\$ 31,246,723$
8, 878,4 45 \$11,614, 8 $\$ 8,578,465 \$ 11,614,87$
the imports of 1875 of $\$ 8$. Here a decrease from the
878,465, and from those of
The fiestic uf these
sumption of woolen grools decreased to that ex tent in the United States? Has not the population increased so as to demand in reality a greater con
sumption of woolen goods during 1876 , than in either of the two years preceding! Has nat thi great diminution in the consumption of foreigi goods been made up ly the increased production
at home? Is not this saving of nearly nine mil athone? Is nit this saving of nearly nine mil
lion of dollars in cur export trade on this one iten
of woulen manufactures the reoult of wowlen manufactures, the ressult of that tarift
policy which has been sil much alnosed by the duc policy which has been sil much allused by the due
trinaires of the free trade pulicy? It is evident $t$. us that the great surplus of mamufactures has take the place of the forcign goods. The quality and
variety of the goords manufactured have met the wants of the community fur cousumption, and evidently have at last competed on their ments for
share of the home trade. The very condition share of the home trale. The very condition of
the wool trade at present indicates that the manufacturing interests, at the present time, are ei couraged by this very aspect of the trade are for the
past year. They realize that at last they hat past year. They realize that at last they hare
gained a market at home for their products, and oue of the very best in all the world of civilization and commerce. The result is seen in the advance
in the price of wouls, and the alsourtion in the price of wouls, and the absurption, up to
the present time, of a much larger proportion al the woul wip, if the present year, large as it is.
It is seen in the resunution of pusiness by mills that have been lying idle, and now understivn
that the market of the country in the produce of foreign loums and forecign labor. is seen in the fact that, large as has been the in
crease of the wool-growing, there is noue the crease of the wool-growing, there is noue twor much
for the wants of the consumers. It will be still further seelt in the development of the wool-grow.
ing interest, ant in its ols grales that may he needed. Besites wur homic
clip, the manufacturers of the United States an using some fifty millions of ponuds of foreign wool
yearly - a fair priportion, which is likely to the in yearly-a fair proportion, which is likely to be in-
creased as the necessities of the nnanumacturers de
mand it, that they may supply the growing wants of the country. There is no more hopeful singo of
the prosperity of the woolen manufactures and the
wool-growing interests than the figures we cite
above, which are indisputable. The American above, which are indisputable. The American
manufacturers are commanding their own home

Sore Shoulders in Horses.
Some horses have very tender skins, which are
xcoriated by the slightest friction; these animals, if not carefully watched, will suffer from sore
shoulders, saddle-galls, and in fact will display raw places in various parts of the body which come in contact with the harness. The carter does not
see the necessity for keeping the animal in the
stable "lost leatherse he has, in hoslight extent. Han's parlance
He knows that
he would not be allowed to sknik he would not be allowed to skulk himself unde
such circumstances, and, therefore, the horse put to works, the abraded part being protected by a pad of some sort; an old handkerchief or rubbe olded is often made to do duty for more appro
priate material.
During the movement of the animal the wound is most probably made more ex tensive a little bleeding occurs, and a very un pleasant appearance is conseyuently presented to
the looker-on-an ugly wound in the shoulder on e'sewhere, and a rongh bandage round the collar or other part of the harness, and smeared with
blood. In such a case it is not difficult to that the horse was cruelly treated, and both the driver and owner are censured or fined, and perhaps they deserve it only as a punishment for their
want of care and inattention to the feelings of sensitive public. With proper management, wellfitting collars and harness, and the use occasionally
of a little astringent lotion, the abrasions which of a little astringent lotion, the abrasions which
are so common and so unsightly in working horses ree so common and so unsightly in working hover reach a condition to attract attention
need ner or interfere with the animal's comfort or his work.
A properly fitted collar and harness are, of course, absolutely essential; but it will lappecn now and Irst the injury is very slight ; the shoulders or withersare "wrung a little," and nothing is thought results become more apparent. Correspondents requently in iquire what remedies are most effective,
not only in the treatment of sore shoulders similar injuries, but also for thêir prevention Some horses are, particularly prone to suffer excoril
ation on the slightest provocation, and no care in arranging the harness will sutfice at times to prevent tha occurrence. In such cases the daily use of a hardening tluid to the most exposed parts of
the skin will be beneficial, and for the purpose the skin will be beneticial, and for the purpose
nothing is better than Sir William Burnett's dis. infecting fluid (chloride of zinc) diluted with fifty parts of water. A soft brush or piece of sponge
tied on a stick will be a convenient instrument ith which to apply the lotion-
ery slight abrasions of the shoulder or othe
parts nay lee treated successfully witl the same
otion ; but if the ind otion ; but if the injury has been severe, and the
part is swollen and tender, fomentations of water mustien and empleycer, in the the first instance, and
when the tumefaction las subsidel the astringent when the tumefaction has sulbsidel the astringent
lotion should be used. In all cases somec
In all cases some means must be deviscl to pre perfectly completec. If this cannot le done the horse must be restec, or put to work which hoes not necessitate thic use of harness in contact with the
seat of injury during tha cure. - Agricultural

## () ver-reaching.

Many horses have the very unpleasant hapit of
striking the toes of the himd shoes a asainst those on the forre-fect. Most horsennen wesill agree that it is
a fault attaching to sonne of the best as well a fault attaching to some of the best as well as the
worst of horses. It more frepuently oceurs with young horses, aurd they often clink on the turf or soft ground, and dine on the roank In thate turf or
the too great activity or length of strises from himed legs: the fore-tect are unalle to get mot of the
way in tinle; therefore, anything which1 letains
 ntulerahe noise, from which the evil derives the
name "clicking $"$;and this is often cflectel lin
 nstean if the shoe, and lues nut malke any moise. sunctines harpens that, from the repection Wese hows, the crust is woms wh thin at eche tone
greater evil. When a square-toed shoe fails in pre
enting clicking senting cilking, it will somuetimes happen that a
hoe pointel at the toe will succeed; which, no loubt, arises from the circumstance that the shoe, having so small a surface to come in contact with,
fails to strike the fore shove and goes within, or by

Convention of the International Asso
ciation of Short-Horn Brecders.
This Association held its tifth Anmual Meeting at
St. Louis, December 6th, with a fair attendance of St. Louis, December 6th, with a fair attendance of
nembers. We qive the most genernlly in nembers. Ne give the most generally interesting
parts on the address to the meeting ly ithe Presi-
lent, J. H. Piclirell, Fisul. of fling the presidey
Since our last meeting many things have contri notwithstanding these drawbracks, we may congramulate oursclves on the fact that, short-horns have Hourishing times, perhaps, than any other branch of trade or industry. While we may know that
we have lost in some of our speculations, and that ome of the evils (as prophesiel one year ago) of grees have been the cause of not only speculators
hut of some of those whe hred some of those who have made Short-hori the satisfaction of knowing, however, that it is rare thing for a man to offer his own breeding that he does not get air renmmeration for his stock. As lourage the hreeding of goonl cattle.
we would know that our business cefect a moment flourish with the present state of speculation and hings sales, and one can easily figure out that or later sonelouly is goore very long, heca
The sumer lose money.
The somner the taint, even, of tho your-tickle-me-
und-I-tickle-you policy enls, the lietter fer the yeneral husiness. Whicu breeders sell heeause they
liave a sump, thes and huyers have a surphus, and huyers purchase only when they
weed them, we may be certain, though we should have to take less for our oflicrings at tirst, that our
Insiness is in on a more sure fommlation, and those Mying can le assuren that the judicious invest
ments they make will well rewy then when such is the case, we may depend that the
"specie loasis" of Short-lhon linceling will have specec hasis of short-hom hreeding will have
heen reacherl.
If we can derise means for and ing interists, we benefit nut only ourselves, but the furnish a leetter "quality of meat for the coussumer One thing that is loeing demonstrated in our favor is the sucecss, that has sttenten the shipping of live
cattle to forcign markets. Nuthing hut the lyest


 sintatives, relative to the reduction of pustage on atalognce Whether they hal any influmence or
not, we liave the sitissaction of kinowing that the withe the irecturs alse authonzen me to commumicate minion of Comala, rernesting them to the Do quarmuntine regulations to prevent the introduction The Comadian zuthorities have extil) hished a systemo of pharantinc that will mulloultedly prevent the inmurtation of discavel manimills tirrough thent
ports. 1 ian somy to say thit the (iovernment of
 to 1 werent such an introduction through thein ports
1 ann glal to beable to report, howeren, that winch ret we ran lout feal that wnder year ago is phassel. tion we are constantly sul, jectel to contagenus dis-
calises of forcign comintries.

 lacks at hhiaghtersion wow Hophent ot (gnellee for

 netimes happen that a
Il succeed, which, no
mistance that the shoe, mstance that the shoe,
come in contact with,
and goes within, or by and goes within, or by
urnal.

## ternational Asso-

 orn Breeder: itt Anmual Meeting atith a fair attendance of st generally interesting
meeting ly the Presi. f llinovis.
my things have contri-
urage breeding. Yet, urage breeding. Yet,
backs, we may congrathat, short-horns lhave
that han any other brauch e we may know that
slueculations, and that hesict one year ago) of
f nong establishlec pedi-
fot only speeulators, lave may se shoectlators,
losing losing money, we have
b, however, that it is a
his own breeding that neration for his stock.
ve cian well afforl to en. cattle. di lut reflect a moment tate of speculation and
easily figure out that ery long, hecal
, Inse money.
of the you-tickle-me-
the lietter for the urchase only when they
uin, thonuli we should Teriugs at tirst, that our
fonmulation, and those repry them, lecanse,
may Alepenal that the mint vancing the lyreed and, at the sas, but the
meat for the enstrated in our favor is Nuthe slinp ping of live
luit the best

Stock Notes From Late Paris Letter The Department of the Nievre is celebrated for the rearing and fattening of cattle, and agricultur
there, once so backward, is now the most flourish ing in the realm. The farmers have becom ture, and confining their attention to live stock The enlightened agriculturists of France recogniz two truths: That they cannot compete with Am-
erica and other conntries in the protitalle raising of wheat, nor with Australia in the growth of wool. It is on the production of meat then that
attention is fixed, and for which the demand is attention is fixed, and for which the demand is
unlimited, and the competition nil. Wool garded but as an accessory. The question of im proved brecds of cattle, and the preoocions produc
tion of meat, are two subjects that occupy wer seriously the attention of continental agriculturists Belgium seems to have taken a strange step to ad vance these ends. The provincial council of Hai-
nant has decided that henceforth no pure Durlu blood shall be imported for ameliorating local races; the latter must be amended by a careful selectio of the best local types. Thus reliable purity
descent and aptitude for the butcher descent and aptituce for the butcher are secondary
considerations. The discussion continues to be interesting between Professor Sanson and his op po the professor it is the maturity of According that limits and stops the development of the flesh, etc.; while the contrary view is, that it is the comprete development of the soft parts arrests the
growth of the skeleton. Food acts in two manners nitrogen tends to the production of Hesh, phos phoric acid to that of the bones. M. Sanson lay ing the extremities of the bones, and thus check ing the growth of the tissue. Not a few maintain that the solidification of the bone is the natural
conseguence of the animal's fleshy structure hav ing been completed, aud requiring no more phos phoric acid torm new tissue, the acid concencontains thirty per cent. of the bones-the latt phosphoric acid accumulates in the extremities of the bones, as it cellects in the seeds of plants, and to grow at first, and when growth is over, to crowning of growth.

## Butter in France

If our dairymen need a spur, an eye-opener, à
lesson which speaks wollumes in three words, here is one at the heall of this article. Butter is actually
lrought from France and sold by the New York lrought from France and sold by the New York
dealers. And this is thus because there is an actual
searcity in the scarcity in the market of yool butter, put up in in an
attractive shape for small consumers. When we
hwow that knnw that one dairyman gets. 81.15 a pound for his
romplucts, anothers 1 , and another 5 cents the year round, at his, hairy door, it is casily seen that it will pay torning butter across the ocean from France, fastindous punchasers whor will have sonnething nic
whaterer it may cost. All this hutter is made fo chnoice cows, choicely fed on clean sweet foond, the
milking heing done in the milking being done in the clemest manner. The
milk is handed ist carcully as though it were nee-
this the tirr, the crean is clurnel with clock and thermone-
ter, the butter is worked with skill, and is male un in shapely calkes, which with nkill, rendire to mate nu
 chunk, which is cont ,ntt of a greasy wege, and smelic cream from cows tilthily lnhed and carclessly
milked, and in churat anylnw, and the difference
is

Fat Sheep for Heavy Flece.

fleece heavy. I do not say that it is better to hav lambs come early or late; but whether early or
late, they are saleable. All ewes that, with goo care, will not raise a lamb and shear four pounds of flock that shear nine pounds and raise a pair of twins, and it takes no more to keep one such than aneep thint shears bout three pouncs. I think that this way, complaining because his sheep are all 'run nust be kept out of the tlock; they are the worst memies of the sheep. If they are not killed they
will destroy the slicep. For killing them I have

## New Food for Horses.

A new kind of mash for hor
into use. It is thus described:
It is composed of two quarts of oats, one of bran nd halr a pint of flax seed. The oats are firs the linseed; ald boiling water, then the bran, co ering the mixture with an old rug and allowing it hus to rest fre hours; then stir the mass wel ap. The bred absorbs while retaining the vapor a greater quantity of flax seed would make the
preparation too oily and less reiished.
One feed per day is sufficient; it is casily digested, and i especially adapted to young animals, adding to
their volume rather than their height, giving sul) to overlook food in connection with the amelioration of stock. He considers oats, so generally given to sheep, as objectionablo, and approaching
the unprotituble; rams generally receive of oats daily; ewes half the quantity. Oats, form ng an exciting fuod, are especially suited to rams ing the development f oung shep they oul build up the bones, and not the flesh.

## Dne Cow a Mine of Wealth.

The history of the shorthorn cow, Duchess 66 th ,
which was solld in 185.5 , at Earl Ducie's sale, in Englank, to Col. Morris, of Fordham, for 700 actual value of one goonl hreeding animal. From,
this cow, which wass calverl in November, 1850 ,
there way luc tacel alis. there nay lee traced in direct descent a number or animals. Which have sold for about $\$ 500,000$.
it lee admittel that as mucl of this value as is depending on fancy or rich breeders, and is not
the intrinsic value of the beef and milk produceld vet nuc one cann help whiniting that an immense vorld from this cow; and in prop,ortion to thi
value may be estimatell the profit to a breeder from
 preals ont fan like, and diverges year by year
wider and wider, until we can no longer reach the
anunds of the luencticial intlue momfs of the heneticial intluence. It is in this
that lics the value of any goon aumal, aunl it is an weight of meat unent its conctine its value to the


One Million Milch Cows.
In the hairy show olvened recently at the Agri
altural Hall, in novel imn interesting allition is Mane to the agricultural exhilhitions periondically
claiming metronntian attention. The dairy farnn
 Which number it was calculatel 1,200, ,000 were in
the hands of 50,010 persons. The value of the



 an amw leals to the vondine of pure milk sun

## Cheese Product of $\mathbf{1 8 ' s}^{\mathbf{1}} \mathbf{6}$.

 According to Prof. Arnold, secretary of the Amc-can Dairymen's Association, the cheese product of the United States for 1876 is 25 per cent. short,
caused ly the drouth. The quality of the cheese lown to the middle of August, was faulty. Cheese made later than the middle of August is of decidedly t least the samples are finer and better flavores

## low to Cure Bacon, Ham, and Pork

 In reply to a subscriber asking for dircetions for ing instructions how to cure bacon, ham, and As the wintry months approach, the hog gainsgreatly in the estimation of his friends, and many reatly in the estimation orsis oriends, and many
persons who would not taste of his flesh in the summer months are pleased to see various dishes composed of it upon their tables. But bacon holds
its own at all seasons of the year, and ham is al. ways appreciated when properly cured and cooked.
was and the year, and hat Opinions differ as to the derivation of the term uption of the Scotch baken (dried); while others fitches are furnished by animals fed upon beech. There are also various ways of curing bacon. ristles, rather than to scald the then brusf the arcase and wash it in cold water, and let it hang Where it will not freeze for twenty four hours. five pounds of common salt are then rubbed horoughly into the pieces of the animal, which should be placed in a large tub and covered up
losely in a cool place for a fortnight. Then turn ver each piece and rub in a little more salt. it remain in the pickle another fortnight, and the moke it iealy to be smoked. The best way to charcoal, keeping np a slow, dense smoke, and not a fire. Then put it in a cloth and wash it
over with whitewash, to preserve it from mould or y-blows, and place where there is no moisture The Westphalio years. he following recipe :
To six pounds of rock salt add three ounces o it intoetre and thwo pounds of Coffee C. sugar. Put
ins of water and boil until dis solved, skimming it well while it boils, and when old pour it over the meat, keeping every part of Bacon can be p
len days; but ham should remain in for four or live weeks. This pickle can be used again and
again, if it is boiled up, skimmed, and a small porBefore putting the meat into the brine it shonld earefully washed and wiped clean from blood,
as that spoils the pickle. Pickling tubs should bo arger at the bottom than at the top, so that the hork can remain undisturbed in its layers until eeded for use; and the bottom of the tub should meat placed upon it, and se on until the tub is
filled. At the Annual Convention of the International Association of Shorthorn Breeders, held at st. couis, Dec. (6, the following officers or the ensuing
ytar were eected :- l'resident, Hon. I). Christie f Canala; Vice-Presidents, B. B. Groom, of Kenacky. and J. II. Kissinger, of Illinnis; Secretary,
F. Lockrilge, of Indiana. In the Board of
Jirectors irectors are Stephen White, Charing Cross,
nd Hon. M. H. Cochrane, Compton, Quebec.
Dr. F. W. Sylvester, of Mayne Co., N. Y., i reprited of huter making, as follows.: He Yet the
methon on
crevin in a cantass bag, und enclosed that in anothe has, so as to prevent ene crean fon escaping and in the ground two feet leop, when the carth wa welve hours. At the expiration of that time ho
 Mr. F. B. Starr, , if Litchlticld, (comn, exhibited a
Acrsey cow two and in half yeary mil, that during
the twamonthis of July aul August gave 1,708 ?

## Fashion in Breeding,

From a paper on Fashion in Breeding read before the Central Farmers' Club (England), we make the The
 whorthorn, both assignmerg the first position to the they command in our show-yards and sale-rings. There are three separate and entirely distinct
systems of breeding pursued-the one is "Line systems of breeding pursued--the one is "Line
Breeding," which is most in favor. The practice of the continuation of the use of sires, of the same line of descent, preserving an affinity, which is not
considered likely to prove prejudicial to the health considered likely to prove prejudicial to the health
of the offspring-when a herd has rendered itself famous, by the development of a perfection not ganerally found, there is the desire and the pro-
bable fulfilment of that continued excellence which is peculiarly its own. The other is "Cross Breeding," or the introduction of a male of one line to a
female of a separate strain, and this I think causes female of a separate strain, and this I think causes
more controversy with shorthorn men than any other; some maintaining that it is essential for the preservation of the health of a herd, that there
must be an occasional introduction of new blood,
o act as invigorator to the general system, whilst
thers as determiuedly pursue the system, of line breeding, as the one leading to that perfection Which it is the object of all breeders to attain. The cross-lrceding may command more flesh or
robustness of constitution, but experience tells us robut, ess ons constitution, but experience tells us
that, as sires, animals bred in that manner rarely command prices equal to those that are bred froum men with ordinary stock purchase a good sire for two or three successive crosscs, and, by that means, have materially increased the value of their stock,
and have then used an animal bred by thenselves and the result has been most disappointing; the germ of perfection was not sufficiently marked and histinctive to warrant the practice, and thereby were apparent prior to their first investment the ther course is that of "In-and-in Breeding"- a ers.
There is little results have been attained, and many animals si,
brad have commanded most fabulous prices. The


#### Abstract

admits of great latitude, and the subject suggests an amount of argument which does not appear on the results of such a course are strongly conde some, although finding favor with others. The, although finding favor with others. relative merit of the stock of the present day, whe great prices are realised, and the comparison they bear to those bred 30 or 40 years a bear to those bred 30 or 40 years ago. It has been affirmed they have not improved, but it this be so, we must ask ourselves, How is this to be accounted for? Certainly there is a great increase in the value of animals of all kinds during that period, the value of animals of all kinds during that period, it is also conclusively proved that certain strains it is also conclusively proved that certain strains of blood have moved upwards in value far beyon any other, whilst the general increase in the value of live stock may he considered to have Hive stock may be from 30 to 40 per cent. Recently we see whole herds realizing fabulous prices, instance the sale of the late Mr Torr, in the prices, instance the sale of the late Mr Torr, in the autumn of last year ; many others can be quotel showing of last year; many others can be quoterl, nosults confirming my statement. There are cases occurring every year of certain strains of blood commanding prices not known until recently; though instances can ho  having realized extravagant rates. This question


The breeders of Devons of the present day are
disposed to favor disposed to favor more scale than formerly. The
same animal that now takes prizes was not the same animal that now takes prizes was not the
favourite in the show-yard some years ago; the small animal has made way for a lager one. I am lisposed to think that change is due to the lightness of flesh the smaller animal carried, and in
some measure to the fact that few could be found possessing the constitution it is so essential to pre-
The Hereford is a breed that has always fomed The Hereford is a breed that has always found consumer.
The late Lord Berwick, Mr. Green, of Marlow, hood of constitution, with hair and heavy flesh, without that inclination to promuce superflumes fat our show-yards in the present day. ymmetrical polled to mention the beantiflean mid his companion from the extreme North, with his long and shaggy coat which defies the cold hlast
of that exposed district; looth of which afford that exposed district; both of which afford some of the bost beef the epicure can desire, and whi

surfice. Similarity may be arrived at to a greater
certainty than loy any other course certanity than by any other course, but the oppon-
ents of the system affirm that you beget a lack of constitution in many so bred; the aecks,
heads, and general heads, and general muscular development are not
of that character to commend them to the general of that character to commend them to the general
breeder, who is in favor of a more robust animal There is a temptation to those possessed of animal commanding such extreme prices to continue to oceasionally appear. The continuation of the us of such animals is The continuation of the use
owner, but to the purial, not only to the owner, but to the purchaser of stock with that predisponition, the only recommendation to which
is the somewhat fictitious price which they bring. Many breeders of sound and moderate view object to the introduction of any distinct line o
blood into their herds. blood into their herds. They prefer the use of an
animal possessing a strain of character and line of descent predoninant in the herd where such intro
duction thater and line duction is desired. Breeding from any two separ ate brecds will always produce good butcher
animals, but the next cross. anmals, but the next cruss is generally a dis-
appointment.

Balmoral" Farm, Lobo, the Propert. of mo. alexander hachethtir. This farm is clamed by some to be the best farm in Lobo township, which is generally admittel to De mingassed in the county of Mutdesex. The ther of Mintucsex, like the tarmers of some Canada; at any rate the their locality the best in 4uality being rib, the soin is of excellent has been a s a chay ham. Mr. Mcarthur excel, has hacessta mimer, allif fecing hound to estallishing himself as a time amt means in has a lot of fine is stock from N. T, made the finest listlay in that liaw ond nial Exhibition; in fact, we don mot doult but his, stock is the hest $t$, ine fommin th. womh.
Mr. Chapman, the artist whe has made some slight alterations in it to meet his
fancy ; of course all the pigs could not be made to stand quiet. Artists are always allowed a little The piggery is constructel on the improvel principle, and is worth a visit from those contemplating huilding one, and live within easy distance of his Iocality. We had a cut male of the interior, which appears in the ompsite page, to show the plan and some of the fixtures, that will 110 he of use to others who are almat to lonilh. The three pigs seen in the foreground are Sombe
 prizes at the last Prorincial Exhilition in Hamilten The value of this class of swine is such that a special herd book is now kept for them. We wish Mr. homors to the rejutation alrealy gainol loy canam
Interior of McArthur's piggery
The view is so distinct that ple scription is not required.
The fastenings used for the doors, as shown in the engraving, are of a believe they will be adopted in pre erence to the fastenings now in use The upper part of the staple is mato mona, he hottom part square the catch is made styuare to fit. The
 not turn when it drops to its place as are half the size of these used shown pigery. If you show this picture to your liacksmith he will make a fastening should lee half an inch thick, and the the fastening proportion. The invention is a really useful one and can hee ntilizen loy any practical farmer

Dairymen's Convention.
The American Dairymen's Association hold the convention of 1877 in Ingersoll. Their pogramme farmers, as the dairy business in all its bearines is one of the greatest importance to farmers. The goon morket for our diairy prolucts is mot the only sonree of protit. stomkefeding for thary oi The convention will tike phace on Jan. 9 th, 10 oth and 11th. We how very many farmers will avai thenselves of the present oppromity of terests of the Domini, .
The following orter of business will be ob :Tucsilay, at 11 a. m.-Organization and appointTuestay, sebsecta, for disectesion. by the decretary of the Associat Centemnial," by the hecretary of the Association. "Butter ter, Iowa, recipient of prize Medal for best butter at Centeunial, "t June "display. "Progressive
Butter Making," by H. C'. Greerl, of the Meadville Thesday Evening. -"The Fitness of Things," by
Hon. Henry Lewis, of Frankfort, Wentestay, a. m. - "Leaks in the Dairy," by L. Sheldon, of Lowville, X. Y. "Cheese Minn
 Welnestay, p. m. "Canadian Dairying, Ty 1: Chadwick, Inveryoll, Out. "Dairying , Mind Fer Wehne day Evening. Ad dress hy Hom, Ceurse
Brown, Suator, Toronto.

Tse anday, a. m. -"The Refuse of the Dairy-its ments of the grain are rejected in the bran becaus Unan, Elmira, N. Y. "The Cheese Interest of Ca- Cording to this'high int of other generations. Ac-nada-Present, Past and Future," by Adam Brown, tutes a decidedly important article of food, whethe
Tharsday, p. m.-Reports of Committees and miscellaneous business.
Prof. G. C. Caldwell, of Cornell University, has
been invited, and is expected to be present and been invited, and is expected to be present and Other persons having any facts or topics a priate to the occasion are desired to present them and all interested in the dairy are invited to be present and participate in the discussions. After
each address time will he given for questions and Rooms will be provided for the exhibition of dairy goods and dairy apparatus, and committees appointed to make examinations and reports of
same. Liberal displays of both are solicited.
L. B. Arximin, Hon. Horatio Seymour,


Canadian Sheep in England.
We have already from our Canadian standpoint taken a view of our exporting of sheep to Europe.
How it is view learn from an article on the subject in the London Globe. The capabilities of the Dominion for supcereals and deficiencies in British produce, both Europe. The shipment of our produce promises to be beneficial to English consumers as well as to
British Here then ,
may prove an almost inestimable bcement of what may prove an almost inestimable boon to the Eng
lish people of small means. The con bil Dominion for raising sheeep are practically unlimi

$$
\begin{aligned}
& \text { the last few years the annual expor- } \\
& \text { tation of sheep from Canada to the } \\
& \text { United states has averaged half a }
\end{aligned}
$$ United States has averaged half a eing hampered by atwenty per cent. uty. It is estimated that this twenty per cent. more than equals the total

cost of loringing sheep from the Canadian ports to Liverpool. Hence they ould be sold for the same price in
England as they fetch in the United itates. This is, we believe, considerably less than the existing rates in the United Kingdom, and the extensively, must loe to bring down our market to a level with the American. It would be too san-
guine to expect much relief from this gume to exprect much relief from this
source for some time. A trade of
such magnitule as this would need to be to produce any effect on prices,
$\left\lvert\, \begin{aligned} & \text { But, in the present state of affairs, any news } \\ & \text { is welcome which affiords a reasonable hope } \\ & \text { of a goid time coming tor }\end{aligned}\right.$ of a goxd time coming for people of limited
means. The price of butcher's meat in Lonmeans. to a certrin it extent, prohibitory, unless
don is,
those who wuit it those who want it go to the trouble of mak-
ing their purchase at simithfield marke conparatively moderate prices prevail,owing, we
believe, to the slackness of trade having diminished the consumption of meat among the labouring
classes. But the classes. But the rest of the metropolis, almost
without exception, remains the victim of an inorli nately high tariff, for which no reason is apparent, except the joint tetermmation of retailers to maintain existing rates. The pullic will certainly have
every cause to reioice if this cowndin she every cause to rejoice if this C'analian sheep traffic
proves successful. It is natural to expect that with a humid climate ind soil generally alluvial, Holland ought to have a
breed of cattle to correspond, and that milking rather than fattening qualities onght to be the pre-
dominating characteristics of that race found to be the case in practice. Dute. Such is large and heavy, are excellent milkers, and put up
flesh rapinily. It is acurinut that, while the milkiny qualities of the the country, are not so, excellent iss in former years focal races pursue a strange methonl for uphorling these quali-
ties. They give as little nuourishment ties. They give as little nourishment as possible
to the calves, in the leelief that this plan precosity in rumning up fat. They send the heifers to the bull when very young, and pending the 6ifi) gallons per annum, and oftentimes as much as $8: 0$; the proprown of butter is about five per cent.
The averave weight a a cwts. The construction of the shed six to nine The building sonsists, ordinarily of double stalls; the separating space is tille.l. with straw and rape
stems in summer, which heats of that seasson : there are ilso fuerturesive In winter the gromed, for the almission of fresh air. turf, and only so much air the walls is filled with for ventilation. The aperture; are as is revided with curtains to exclude inseets and excess of light. The cattle are partly srayel and paress on light. The
there is a decillen ond jee tion thand the intron anction of
thar Perpesece Burduans for exampe for crossing

dgricutture.

## The Corn Crop of Illinois for $18 \% 6$.

 A correspondent of the Prairic Farmer, who has taken great pains to asertain what the yield of thelast crop really has been, writes to that paper in
no very encouraging terms. When we take into no very encouraging terms. When we take into
consideration that it is nut wheat, as with Canadian farmers, but corn that is the staple article o
produce in that state, and that on corn they rely produce ineans to enalbe them to pay their heary
as thes and meet their many other engagements, we taxes and meet their many other engagements, we
will see what a crushing misfortune the reduction of the yield of that crop fully one-half must be.
The correspondent travelled through the State for The correspondent travelled through the State for tion what yield the crop had realy y given, feeling convinced that the report of the state Board of Agriculture was more favorable than was wrrrante
by facts. We give extracts from his communicaby facts. We
tion as follows
"During the summer of 1576 I made arrangements for a more general survey, and carried them
out by going up and down the State, from Cairo to out by going up and down the state,
Dunleith, and across it, from Danville to Quiney and in addition, male several other excursions
into districts where the eurn crop was reported to le particularly grood and into others, where the re
verse of a pleasint picture was presented. As the result of these railroad journeys, I am prepared to
offer the opinion that compared with the corn crop of 1875, that of 1876 is not over half as large. That is, in 1875 the state supply gave us two bushels, where in 1576 we have but one.
"I do not think any good end would be attained inl pointing out these counties and parts of the
State where the corn crop has failed badly, or dis astrously carrying with that failure small grain, hay and even putatues in the general wet weather
rain-when the stricken farmer has neither grai enounh to keep his small stock of hogs, cattle and
horses over winter - no means to meet his engage horses over winter - 10 means to meet his engage-
ments, no money to pay his taxes, and where some of them are almost in a condition to feel themselves
to ke without hope and without God in the world For while such an advertisement would be of little or no benefit to the sufferers, it might do a great
deal of harim to them and to the bankers and business men of such a community. It is enough per-
hans to say, that of the 5.50000 square miles of all crops are slorter than they have been remembered to be, and then the condition of business men in
such districts is deplorable and that of farmers
 counties of the state, and gave me a fair oppor-
tunity to judge of the crop in at least 50 of them, a tarly represent he average of the ann be estimated above 20 bushels. Consultiug this year's crop returns and succo other ritures as
had accumulatel it Springtiell, he cilculated in his last report, the area of the c che crop of 1876 at
nine million acres naarly. This on my estimate 150 million bushels. His, figures as as to yicll, made made up no doubt with great care, make the crop a tritfe
over 202 mitilion luisiels, or sonuctihy less than 30
 and counties as to amont to a pallice calamety.
Accorlingto this care fully prepared report of the
correspondent of the Larimor, is deficency of 1so corresponkent of the forimer," at teficency of 1 se
An American Opinion of Canadian
Agriculture.
 In whatever it
 She may well feel troud of the eminence she has attainel, of the e wotoriws she has achieven. There
are always some whon think there is some ulterior
olject object in everything: and we have heard it suge
gested that the bominion mat a stronuone ethint
to inpear at her hoet, in ordol that the peonle of

prosperons they are now and the wisdom of letting
well-enough alone. And then there are plenty of well-enough alone. And then there are plenty
knowing ones who are quite sure that this or that State, or society, or person, would have done a
well as Canada "if they had only known," or well as Canada "if they had only known," or
this thing, or if that thing \&c.-the stuff we al ways hear wi en people get badly beaten. For our part, we know well that the American people as a
whole love fair-play as well as the proverbial Whole love fair-play as well as the proverbial ling the justly-earned honors of Canada in this great worlds fair. The motives that may have induce the display are nothing to us. She was there and she has reaped the lion's share of the honors. As the awards are being made, it is wonderful to
note how many medals go to Canada for agricul tural products. The work of two groups of judge pomology and special agricultural products, and a malysis shows that Canada has-not the lion share, for that implies a forcible possession, righ
or wrong - but a liberal slice from the great Cen tennial Wedding Cake.
In the case of the horned cattle awards, we note
that sixty exhibitors take medals from sixteen different countries or States, and of these Canada takes thirteen-more than one fifth of the whole The vicinity of Philadelphia has eleven, with seven
to the rest of the State ; but the vicinity to the fair grounds ought to have been an additional in ducement, and we cannot think but-taking these
facts inte consideration-our own people of Phila facts inte consideration-our own people of Phila
delphia and State have been badly beaten by the Canadians. Connecticut does pretty well with six awards; then comes Iowa and New Jersey with
four each; New York and Illinois with three each and then oue each to Massachusetts, Indiana, Mane, Ne
England.
When we examine the pomological and specia pre-ominence. Of thre just the same cinadia amined, the group makes two hundred and thirty gumes, models and other incidentals. One hun kinds. Nineteen of these are Canadian, or abou ne-eighth of the whole, which is wonderful when
we remember that the fruit is regarded as particuwe remember that the fruit is regarded as particu
larly the atribute of more tropical climes.
Penn sylvania has twenty-two-nothing remarkable when we regard the proximity, and the difficulty of get
ding perishable fruits from a distance ; and even th's is distanced by Massaehusetts, which ha twenty-seven. Iowa comes next with seventeen
Michigan and New York come next with ten - this Nichigan and New York come next with ten-this,
however, including several to the enterprising fiom
of Hill wanger \& Barry; Connecticut twelve New of E.llwanger \& Barry; Connecticut twelve, New
Jersey nine, Oregon seven, Ohio and Kansas three iersey miue, Oregon seven, Ohio and Kansas thre
eich: the Netherlands, Indiaua, Neb aska, Dela
W. Austria, (ieorida, Wiso each; and Mine awna, Janaica, Yorth Carolina, Maine and District of Columbia. Dow, considering the alvantages which some of
theses States have, it is remarkalle thit Canala
should do so well. honor and credit. She has done herself infinite will undoultedly y flow to lier from her efforts she

The Growing of Roots in Canada. From the Wichigan Farmer we copy an article
ni this suljject. It is unnecessary for us to refer to a brandh of husbandry of which we have so free and again pointed out the great profits to bo de de-
aved lay farmers from the growing of riots fur tock fived liy farmers from the growing of roots for stoch
feeding. and we are pleased to see that their cultiration is every year extending throughout the
country. Now that we can send our beef and mutton to the English markets, we have the greater
inducement to pay more attention to the wur stock and providing food for them for all seafolis. We :- abringe the article above referrect to a
The growing of roots in Canala is becoming a
part of their system of farming. We in Miching part of their system of farming. We in Michigan
are beginning to understand that something of the same kind must be done here, and many of the nortial attention to the sulbject, and the fact is vor Mmeninent that those who try it once stick to it, What fle farm, ant the limuclliny of hor gore cappital, as
ways that all farmers are not prepared for. Still
roots and their culture are working their way just roots and their culture are working their way just f anythng, somewhat more severe than that of Iichigan.
It has long been felt by farmers and others in Ontario that the capabilities of the province as a
root-growing country have never been fairly denonstrated. The exigencies of climate compel the holding of the principal fall shows no later than the beginning of October, a season at which root
crops have not nearly perfected their growth. crops have not nearly perfected their growth.
Consequently, the roots shewn at the Provincial
Exhibition have been Exhibition have been immature, not having ob-
tained anything like the weight that other root tained anything like the weight that other roots
left in the ground have attained a month afterleft in the ground have attained a month after-
ward. It is evident that Canadian farming has got
to undergo a radical change or the to undergo a radical change, or the land will be
impoverished by the eternal suceession of grain
 success saf rotion of English agriculture," so the in the show lately held, may be said to mark a Canada has got to ulture can be considered fairly and permanently prosperous. To feed that stock we must grow
oots, not only for their intrinsic value as food, but for their known property of assisting in the assinotion of our farmers. that haots cannot be grownal profitably in Canada. The firmest believers in chis doctrine are those farmers who never tried to grow them. Certainly last summer must be al-
lowed to have been one of the most trying on re cord for a crop popularly supposed to need, in order o arrive at perfection, a continnous drenching. It but half known yet that a soil which is kept an inch or so under the surface of such a soil is noist in the severest of crouths. The two prinpot water them at all but trustel to deep cultivation and constant stirring of the soil to furuish the equisite moisture. And yet they liave succeeded, ducing roots that not only surpass saysthing of the
ind ever seen on this continent before, but fairly old their own with those grown for exhibition in
England itself. It must be allowed that these oots received more special attention and treatment than could be bestowed upon an ordinary eld crop, but what theen? The fact is demonstrated that roots can ere grown here, and under ive way of root-growing could be found than by howing that it can be done here as well as in Engthrough in the competition set on foot by Mr. Renne, and we should not be surprised if in other

One of the roots shown, a yellow globe mangold, argest specimens grown for show in $1 \frac{1}{2}$ pounds. The ceed this but little and seldom. Mr. Burgess' long ne root of $38 \frac{1}{2}$ pounds, but in this class he was exspecimens of remarkable solidity and symmetry. The heaviest of his carrots is 6 pounds, a weight
exceeded by a pound by a single specimen of the sceeded by a pound by a
second prize lot.

Some inlea may he firmed of the vast numbers of a purchase made lately in the south-western part of the state of $40,0(\%)$ head of cattle and 2,000 horses
or $\$ 140,010$ in silver, being $\$ 3.50$ a head all ruund or $\$ 140,000$ in silver,
or cattle and horses,
At the royal farm buildings, Claremont, recently, here were put up to auction 112 fat oxen, the it Claremont Park, and the polled seits at the Hone fark, Hampton Court. There was a large
attendance of lonyers. The Herefords fetched $\$ 1$, 2, or an average of $\$ 102$ each, which is a pretty price
celusive of thore are $3,01!$ veterinary surgeons a averge of one surgaing to 1,142 harses. The rench evernment pays mit annally for the sup50,000. In Prus iac there are 1,296 veterinary

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at month a atertian farming hase got the land will be $\substack{\text { nen } \\ \text { gricult }}$ be said to explified Canadian farm
iock before $y$ and permanently tock we must grow
c value as food, but isting in the assis been the general
is cannot be grown rmest believers in
who never tried to ammer must be
most tryin sed to need, in order
nous drenching. It uous drenching. It
soil which is kept ce of such a soil is The two prin-
ts now on show did cel to deep cultiva-
e soil to furnish the not seasons, in prot before, but fairly
n for exhibition in tention and treatupon an ordinary
he fact is demonn here, and under
at. No more effectbe found than by e as well as in Eng-
hown all the season on fout by Mr. Relle urprised if
much grea low globe mangold,
$41 \frac{1}{2}$ pouncls. The Euglan
Buryess class he was ex e, who showed six ty and symmetry.
the vast numblers of
te there a heal from uth-western part of
le aurl 2,000 horses 50 a heal all round 1areminnt, recently,
112 fat oxen, the dilled scots at the There was a large
reforils fetched $\$ 1$, cterinary surgeons
the arriyy. This is $1,1+2$ h hirses. The
mulally for the supminally for the sup-
$0,0 \mathrm{mon}$ rance, alout
$01,29(;)$ veterinary

## Food Value of Beef.

In a recent number of the Farmer's Advocate, in of the relative values of lean and fat stock, referring to the fact that in our Canadian markets well fattened beef sells readily at thirty to forty per cent
higher price than it would if lean or even half fattened, and that the difference is still greater in the markets of Britain. In in paper receutly publishel in the Journal of the Chemical society shows from
a carefully prepared statement of the analyses of a lean cow, a fat ox and a very fat cow, showing the real comparative value of beef in each of these conditions, and also the comparative value in each of
the four classes into which the food is divider lyy the four classes into which the f
the methud otservect in Eingland.
The authors refer to the work, \&e., which Lawes and G.llert have done on this subject in showing
the modifications which take place in the animal organism during the process of fattening, namely, that the quantity of "lry material is notably incondition the water is about two-thirds of its total weight, in a fat ox it is only a half; also, that the
more nutritious character and superior taste of a more nutritious character and superior taste of a fat animai are this increase two-thirds consist in fat; the increase of proteids is ouly from seven per cent. to
eight per cent., and of inorganic materials, one and eight per cent.,
one-half per cent.
first becomes perceptild the assimiated materials fattening. At the commencenent, the increase in cent., and according to J. Ruhn, the production of a living kilogramme costs twice as much at the end of the fattening as it does at the beginning. Hesh of the fat animal in every case is richer in fixed material than that of the lean animal ; ani though the flesh of a lean ammal possesses a more
uniform quality than that of a lat whe, yet lhe porest parts in the fat one possess hligher nourish-
ing value than the best in the lean animal.

- compostion of ox flesih.

| Water | \|77.97|74.98| | 76.80 | 6.53 |
| :---: | :---: | :---: | :---: |
| Fixed material | 22.03 25.02 | 23.20 | 3.10 |
| Fat | 0.954 .00 | 4.33 | 2.40 |
| Muscle substance | 20.0820 .02 | 17.87 | 2.66 |
| Ash, calculated as 1 per | $\begin{array}{l\|l\|l\|} \hline 1.00 \\ \hline \end{array}$ | 1.00 | 9.92 7.80 |
| Vary tat Cove. |  |  |  |
| Water. | 176.1573.26 | 57.81 | 97. |
| Fixed material | 23.8.5.26.74 | 32.19 | 32 |
| Fa | $2.82 \quad 5.76$ | 8.812 | 12. |
| Muscle substance | 20.0319 .98 | 22.378 |  |
| Ash, calculated as 1 per cent. | $\begin{array}{lll} 1.00 & 1.00 \end{array}$ | 1.00 |  |

The animals experimented on were a lean ten
year-old cow, a fat five-year-old flemsh ox, and year-ond cow, a tat five-year-old Flemish ox, and
very fat seven- year-onl illaner cow, The authors noticel a great loss of weight during
the transport of the meat from Brussels to Gemgraux; pareels which welghed in brussels 225.3
grains, weighed in (iembloux only 192.2 grains, in
dicating a luss of 16.650 per cent. of water. The nitrogen was determined in average samples, and the figures given are the average of two deter-
minations in each. Nitrogen : Lean cow, 14.0 per
cent. ; fat ox, 14.88 per cent. ; very fat cow, 15.9 per cent. What may be learned from the table is that the cont piecee from twentyper cent. more fixed materials than the correspond ng piece in the lean one. The difference in the is but small; in the pioce containing most wate (paunch) and that containing least (neck) it is les than five per cent, and, curiously enough, the
worst piece is richest in tixed material. The Hesl Worst piece is richest in fixen material. The Hesh
of the neck improves but little in vilue hy the fat tening, but the flesh of the win has increased in The authors' consider the methonl in Eingland of
dividing the food into four classes of correspondine values, a goon one. If the tirst lie representel by
100 , the second would 1 be -7, the third 61 , the fourth 42, and while the richer classes pay more highy for
the better parts, the pour are cualled to olltain th

## Inoculating Arable Land

$\qquad$ lated a life. The remedy is not altogether in far
mers' clubs, Granges and The Duke of Manchester has tried experiments
an his estate at Kimbolton, which are well worth onsideration by all concerned in the breeding a live-stock. Desiring pasture, he did not sow grass seeds, but with a
nacline, made by Messrs. Howard, of Bedford he cut ropes of sol two inches wide out of an old pas ture. These ropes were carted to the field that was to be convertel, were broken into pieces about two
inches ssuare, and were then placeed in regular rows
on the surface of the gronud by women and children who gave each piece a slight squeeze with the fuo ters of an empty corn drill drawn over the laul ters of anter empty coru drill drawn over the hand be rolled whenever necessary. It was in Novem
ber, 1873 , that the first field was thus treated. her, 187 , that the first fiel was thus treatect. By
the following autumn it was completely covered
with grass, and "was nearly as level and as god with grass, and ""was nearly as level and as good
as old grass land ;" and in the second year was "fit for grazing." And as regards the pasture from
which the ropes had been cut, we are told that "after the first year the gaps in the turf are scarcel Thus, the
bare places has been turned to profitable accoun The subject is not new, nor is this the first time it
has been mentioned in these pares ; has been mentioned in these pages; but the mak-
ing use of such small pieees of sod to inoculate the land is new. The cost is about three pounds an acre, which, as we are informell, is less than the
cost of sowing with grass-seeds ; and "'there is falling off experienced in the third, fourth, or fift year, at least to the same extent as when land is
laid down to pasture with artificial grasses.-Chomhers' Journal.

## Co-operation is Farming.

$\qquad$ good practical suggestions. Among our Canadian occnrrence, especially so in places is but lately-day onized, where helping to bear one another's bur-
dens is a good rule genera ly practised. Whether dens is a good rule genera ly practised. Whether
all the suggestions of the writer will be thought suitable, or on the whole judicions, is a question
for every one for every one or every family to decide for the they are to judge. We transfer the
selves, but they
article to our columps.-

$$
\text { An important } \mathrm{a}_{2} \text { van }
$$

An important advantage of large farms is that to do the work by grouls of laloy morere rather and than
by solitary individnals. It is a well a ter by solitary incivicuals. It is a well a attested fact
that two men working together can and generally will do more than twice as much as one; and three, Iour or more can work together with proportionate
advantage. It was one of the compensationt for advantage. It was one of the compensations for
unpaid labor in the old slavery times that the culored people aluost always worked in gangs.
When they did not it was considered When they did not it was considered an especial
hardship. Colored 1 ople preferred to bellong to a rich master owning many slaves rather than a
poor man. Undoultedly one reasou for this was the edvantage of being with and working with a do on a large plantation as well as a a large farm
but "many hands make light work." It is not only pleasanter but easier to work with others than
to work alone. Every Northern farmer's knows how "lonesome" it seems to hoe or plant alone in a large corn field; how the work drags
and how tired the worker becomes. A dozan men and boys making twenty four rows in a albout,' work with nearly the same alvantage. Work , They cannot accomplish as much alone, and the fatigue is far greater
Working in the same field with oth $<$ rs is
stimulus, and decidedly advantageous. In a har stimulus, and decidedly advantageous. In a har
vest field with a self-raking reaper the binders sec each other orily occasionally, but how the counten the driver of the reaper cheers and encourages all it, was equally social work. There was a constan
strife between eradler and binder to see which should excel. Vnder this stimulus some of the and sometimes ly men who were not gool for much
else. They needed the stimulus of competition, else. They needed the stimulus of competitinn,
and were ghol for little without it. There are
many more such men than we thenk. Sur Northern farmers, owning small farms and
mostly working them with little help, live tom is,
ners' clubs, Granges and meetings for social enjoy nool, but they do not reach the the .greater difficulty
the isolation of farmers in their fields and durin the isolation of farmers in their fields and during
he working season. "It is not gool for man to the working season. "It is not gool for man to
ne alone," not only as to the necessity of marriage, but this is nearly as applicable to the need for ociety and companionstip in work. Thousands
of farmers becone insane-some more and some less, and in a great majority of instances this aberation is the direct result of a solitary life.
Carmer's wives suffer from this cause more than he men, especially where chidiren keep the house wife closely at home. Children are companions ions, but they are mure or stims lute the affec ons, but they are more or less duplications on
heir parents. and do not demand the mental ac tivity required by association with intelligen

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Farm help is not usually so nearly on an equality in wental cult:re and intelligence as it was forty
or fifty years ago. It is quite rare that farmer panjons in their hired seekeng find, intelligent companions this, but what 1 have written is the gen-
tions how ignorant and thoughtless their help, they ough to make the most of it This is not only a duty
hut their cecided interest. Any hired man w do more work, and io it hetter, for being treate only use was to dig and delve for his monthly wagts. This consideration should be more thonght of in hiring help. Any man whom you cannot
afford to associate with you cannot afford to hire any price. Intelligence and moral worth are as
important on the faru as anywhere, and if they do not comnand as high a price it only shows that
they are not fully appreciated by farmers. After all, 1 suspect that the true remedy for the isolation of farmers is to be found in co-operation with each other. "Changing works" used to be nistake that this custom has ever been left to die out. The farm help should so far as possible be This plan senerally securess better for their use. men, besides the further alvantage of two distinct camiles on the same farm. If posssible, neighbors cases should live and act like neishbors. The Ger. whose land often liese small villages of farmers, tant. Our practical Yankees scorn this way of do-
ing things. "It is ton uuhauly for the So everything is sacrificed to convenience for work. Weople of any other conntry, buth more than the in broken down constitutions and prematurely old men, and in our farming population the effects of an almost complete isolation fron social life. Byoperation than by isolation. Farmers will work ogether, and their wives wi 1 also. The baking
for a a dozen families may lee done in the summer by a fire in one large stive or range, and a housewife
will no more think of duing the weck's washing by hand with the present slow processes than her hus.
band would of reaping his grain with band would of reaping his grain with a sickle, or
threshing lis entire larvest with a flail.

Spare the Quails
The following article, which we transcribe from
the hurial Kiovid, taikes up a sulfeet of the greatest mportance to fanners. While the vermine that
pry upon oyery crop. of the farm, tarlen, and
orchard, are inceatiny daily, our feathered friends that aid ns son effectually in our increasing warfare with the pests, are slathintered on every hand hy
those whose effective allies they are. Siare the Now, I do not beclieve that birls can ever, under
the most favourable circu stances, destroy the vast
 manerous enongh to clear up the chinch ings and aggregate, in a term of yeas, than grasshnpprys
If quails had proper protoction, they would almonet Work in the wheat tand corn ficlds. It will take at hast two yers to yet a-st tek ,

＂No man liveth to himself，＂，are the words of the
Book of books，and no mands bugs will stay where
they are raised，as I have learned to my sorrow， If people have not judgment nor interest enourg to protect and spare the birds on their own lands，let the law step in and teach them a profitable lesson． better protection of insectiverons birds，and send in early to our next Legislature，with such a list of names as will insure us attention and respect．
In the meantime，let farmers keep quail－hunt In the meantime，let farmers keep quail－hunter
out of their enclosures，as they have the right t out of their enclosures，as they have the right to
do，until we can get such a law as we want for their protection．
Farmers，
quails during the winter，and perhars get a dollar for them，all in cash，and by the same transaction you will give the chinch bugs a wagon load of grain，
and lay the foundation for the destruction of your own and your neighbor＇s crop another year．I be－ hieve that a flock of quails is worth at least three and in many cases ten times as much．World I will
In a future article for the Rural World mention some ways in which we can assist in in creasing the number of useful birls．
Savannah，Mo．，Nov． 2,1576 ．

## C゚ロでspondence．

The Crop Vield for $18 \%$ ． $\mathrm{Sir},-\mathrm{In}$ the township of Suawak spring wheat
from about twelve to twenty bushlels per acre ；but grain was sown late－too late for the hedge，and the great heat was over before the straw began to
change color，so that it had a chance to fill well． One of my neighhorrs had a yield of spring Whent，
part of which was bally tilled，and a poor sample ： part of which was bally tilled，and a poor sample
this grew on soil the usial depth for this part o the country ；the other part produced wheat well filled，and an excellent sample；but this part of
the field had only a foot of soil lying in a tlat lime stone rock．Lime possesses the property of attract ing moisture from the atmosphere；so that lime
when applied to land has a better effect in a dry shmmer than a wet one．For my onn crops，what
Scote Wheat 1 had was sown immediately after
harvest it harvest，it sipenell early ；lut the grain shraik con－
siderably．Of a tield of Trealwell Wheat，which was sown very late，one half was winter klled and
re－sown with peas；the other half thoush rather short on the car，gave an excellent，sample，better
if anything thau the wheat of the sane variety Which took the first prize at the C＇ounty Exhilition and I have sown no other rears to sulut my soil best， looking very well till the frost and snow came on
the ltth October；this checkel the unwwi srew but as the weather shecane nhe upward growth afterwards the check will probalny prove leneficial thy makiking it
strike rove downwards．

 very early and the sumpuncr proves，dry whens shen it
gives the best crop and makes the best flowr．We
had wot wod hal not much rain in June in this section of the
conutry，so that the hay is only a moderate crop），
 and after liarvest，though nuth rainy weather thurin
 ber，thuygh in In case was there a whole days rain at any one time．The rain，however，seems t
have been only local．In a township not more than
twe twenty miles to the eastward，the drought dried up the pastures，and injured the rout crop also．For
the loneretit of any of your readers＂who may be
short of the it horsses which，proved very suceessful with us last
winter，viz，iur cuts st saven，whan sprinkle it with prickle from a commen
 in this way my horses，，me of them a three en，foul，
stood their waik well throuyh the winter，reservint



of turnips or sugar beets may be given to horses，but
carrots are better ，if to be had．In these hard
times farmers must study economy，but not to such times farmers must study economy，but not＂to such
an extent as to pinch their stock．I have kep young pigs through the winter on sugar beets，cut up and fed raw every day with my leavings from the
house but no grain．As for house，but no gran．As for parsnips，I prefer
leaving them in the ground till the spring，they are
valuable then either for cows or table use but they valuate then either for cows or table use，but they
must be taken up as soon as the frost leaves the ground，after
very little use．

Sarawak．

## Michigan Pomology．

Sir，－The Michigan Pomological Society was o ganized at the city of Grand Rapids，Kent County，
July 5 th， 1811, since which time it has become one of the most active and important societies in the
Interest of agriculture in the State．It has becom a settlel fact that Michigan as a fruit growing
region is second to no other State in the Union Michigan apples are now looked upon as A． 1 are of the choicest varieties，and the crop abundan in certain localities on the lake shores which so
nearly surround the State．Pears are cultivated nearly surround the State．Pears are cultivate
in large quantities and of all varieties known in the market．Plums and cherries，notwithstanding reasonable success，and grapes are found of the finest quality．
All these，w
－so delicions with a fair show of the smaller fruits organized effort of the fruit men in the the of this ciety．It holds its meetings quarterly in different
parts of its peculiar fruit，an opportunity to exhibit its proys．Its last meeting has just closed－a thre
days＇session at the beautiful City of Coldwater in Branch Co．There was a good attendance and splendid disp．
and flowers．
and Howers
The exer
and reports of committees，amons the most im T．Lyon，who was chairmall of the committee T perience there and a description of the various
pennial he gave the Soiety his ex－ by Prof．A．J．Cook，of the Mishigan Agricultura College，at Lausing．His subject was the＂Canker
Worm．＂The Prof．illustrated his lecture with charts an
stages．
Tlis in
This insect，by the way，is just beginning to get
foothold a foothold in this part of the State，and it was with
the deepest iuterest that the orchardists of Southern Nichigan listenel to his exposition of its habits and work．There were many other papers read，all of
which were commendable efforts and with the which were commendable efforts，and with the kind one of the most profitable meetings perhaps this Sne of the most
Sictery hell．
The otticers for
Lyon，of South Haven the year will be Hon．T．TT Garfield，of the Michitan Agricultural College Secretary，and H．Dale Adams，of Kalamazoo
Che next meeting will be at Pontiac，Oakland
County，in Janury Adrian，Mich．，De

Spring Wheat．
ne says：＂MV hat is the best quescrintion asked when one says：＂What is the best description to grow＂，
That is，what rariety is nost likely to yield sati＂ factory results？Of course in answering this ques－
tion there are many considerations to be regarded tion there are many considerations to be regarded，
discription of soil，condition of soil，climate，etc．
Ivost of the swn Nost of the spring varieties are coarse，and are Why we，in England，are reluctant to sow wheat in
the siring when we can avoid it． farmers are growers of spring wheat to a far
larger extent than we becn complaining that their spring wheats bilight or hecently a new variety of wheat has been t Gated here ly Capt．W．Delf，who farms at
（iraut Bentley，W．Colchester．This wheat is held Wrors upon a rect straw and ane white wheat which
 In，ilian，Hungary，innsia，ete．France，Belgium，
The London Standarl，in speaking of this wheat，
which is appropiately styled the＂Mainstay，＂says
＂We saw the finest sample of wheat that we hav seen this year（1875）at Ipswich market．It was a very fine white wheat，which weighed 66 Its ．per
bushel，and made 4 shillings per ，＂uarter more than
ny any other wheat at matke， any any other wheat at market．＂
At Chelmsford，where the
At Chelmsford，where the best wheats in the
kingdom are shown，was offered the finest sample by far，the＂Mainstay．＂The Chronicle speaking of it says，＂It it really superb．＂
A large farmer speaking of spring wheat said
that he put his in last March，and it was the best
that he put his in last March，and it was the bes
crop he had．
At the Centennial Exhibition this wheat carried
off the only prize medal awarded for grain in th off the only prize medal awarded for grain in the
British section ；the continental journals are loud British section ；the continental journals are loud
in their praise of Capt．Dey＇s success，for the rare
wheat and barley wheat and barley grown，he having bestowed great The Societe Centrale d＇Agriculture，France，has elected the originator of the＂Mainstay＂wheat
Honorary Corresponding Member of the Society Honorary Corresponding Member of the Society，
and he has received the gold medal of the Institu－
There is sufficient evidence both in this country
ad on the Continent of Europe that the＂Nain nd on the Continent of Europe that the＂Main－
stay＂is a very valuable wheat，it is very robust
its growth，the straw is very stiff，containing a Its growth，the straw is very stiff，containing a epth，it will stand a great deal of knocking about any effect upon it，it stands erect and does not lose its grain．
We sen
nide to some of these few lines，which may be a sude to some of your readers of the FARMRes＇
ADVocate，a journal from which it is nut difficult Fr farmers on this side of the Atlantic to gain in－
ormation． ［As we have other English correspondents，we give the name of Anglian to the writer of the
above article，from whom we expect more commu－
and

## Artificial Manure

Sir，－I see in your valuable paper a prize offered fractical experience by artifcial manurian farmer．Written by manured one acre with barn－yard manure spread on top of the ground，ploughed in，after that har－ wed and drilled up；another acre manured with dung in the drills；the third acre no manure but
the artificial manure．The turnips on the artifitial nanure were much better than those sown on the manure ploughed in＂；the dung in the drills turned can safely say that a fair yield can be got with． ut any barn－yard manure by sowing the artificial Ancaste，as have given it a fair trial this year． Ancaster，Dec． 4,1876 Richard O＇Hara．
［The next article must be more this．We award a prize offered for an article out Artincial Manure to the writer of this article， particulars in regard to soil，cultivation giving more sured results．As the competition for this prize is not large，we think it judicious to offer another prize time to write．－EED．］as some may not have hall A second article on the use of superphosphate has come to hand since our award of a prize to the foregoing communication．To the writer of this
second one we also give a prize second one we also give a prize，and hope to
further particulars of the application of the super－ phosphate in competition for the additioual prize
we now offer．and other competitors too will be we now offer．and
found in the list．
Sir，－We are highly pleased with the Advo－ ATE and consider it conveys a great deal of useful year；the midge was rather bad in the early sorts， and the scotch rusted badly，the first time I have known it to rust in twenty years．The two pre－
vious years it was first－rate on summer fallow；it yielded from 25 to 30 bushels per acre．Our turnip crop in July promised first－
rate，but resulted in rate，but resulted in not half a crop；drouth and
caterpillars were the cause． about an average，excepting hay，which is above． Please informe，excepting hay，which is above．
best bess way to apply superphosphate to the turnip
crop，Is intend to try a barral or more．I have a drill that will sow salt or any fine sulsstance with
the seed．
Would it answer son ［Mr．Alex．Sy Tri，Mariposa． ［Mr．Smith will find on another page the infor－ ket. It was a
led 66 tbs . per
irter more than wheats in the
finest sample finest sample Ig wheat said
was the best wheat carried
grain in the grain in th
rnals are lou rala are
s, for the rare
ses e, France, ha
instay " whea f the Society
of the Institu I this country
t the "Maintyer robus down a grat
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1 does not los ich may be
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Fs.axer is not difitioul Ansulus. pane lens
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apize of erere armer. My ex manure spreai manured with manure bu
on the artificia sown on the
e drills turned ificial manure, y the artiticia.
it this year. Rd OHara. an article
this artic le giving more,
on, and mea-
on the ranother prize
not have hal aperphosphate
a prize to the writer of this
and hope to 2of the super-
ditional prize
doo will be h the Advo-
deal of useful peor the past
pe early sorts, ee early sorts,
t time I have
The two prethe ground an
to 30 bushe romised first-
drouth and lier crops ar
an Wocate of the
to the turnip
qure. I have uhstance 4
that way age the infor-
sphate. -ED.]

Will our esteemed currespondent " Prairie
Farmer," Orford, who wrote in December No. conFarmer," Orford, who wrote in December No. con-
cerning steam ploughs, kindly forward his address to this office as his letter has been mislaid. SIr,-I am much pleased with your paper, and
have sent you a new subscriber and induced more have sent you a new subscriber and induced more
of my brother farmers to subscribe for what I consider a very useful paper. The crops are rather
light in this section of the country the past season I would ask space to say a word on a sabject which I comsider of great importance to the farmers of On
tario ; that is with regard to traveling agents and the large percentage they receive, and which comes not our ors' in the high prices we have to pay for machinery which we know can be made for less money by twenty or twenty-five per-cent, if our manufacturers hà fewer agents opense. Some are doing away with them, farmers' expense. Some are doing away erith them,
and the increased patronage they receive speaks
the farmers' thoughts on the subject. the farmers' thoughts on the subject.

Sir,--Some two months ago I prepared some notes in regard to the case or superp.Inate barrels on my own crops, barley, potatoes and corn; on the barley I sowed broad-cast, 175 lbs .
of super to two bushels barley. 1 am satisfied the of super to two bushels barley. 1 am satisfied he
yield was increased $3 \%$ and matured 12 days earlier yield was increased
by actual date. The potatoes and corn I planted
in the usual way, covering lightly with earth, then in the usual way, covering lightly with earth, then
I put one handful of super to three hills, again
covering with earth to prevent the super from covering with earth to prevent the super from
evaporating. I had a splendid crop of potatoes, much better than those planted in the same field
without super. The corn grew very vigorously without super. The corn grew very vigorously
from the start and matuied in ninety three days from planting. It would have paid me well if had used $\$ 50$ worth of it

Dear Sir, - I would enquire of you or any of
the readers of the ADvocate, why it was that our apples were more wormy this season than ever have seen them before? And seems to be general
all over the County of Bruce; and I have observed that some kinds of apples are damaged more than others. The Seek-no-further was the most cored with me, except the Fall Strawberry and Hollan
Pippen. In fact, the Northern Spy and Green Newton Pippen did not escape the 1 . If the disease continue much longer our fruit won't be worth a great many cures in the papers, and of some remedies in the Advocate; but it seems with all the washing and scouring we give the trees, yet work of
our diligence, the enemies go on with their work of destruction. I gave my trees last spring a thorough
washing of soft saop, suds and chamber lye and washing of soft soap, suds and chamber lye, and 1 fancied I had to some extent cured the disease; bu
when I went to gather the fruit I found out to the contrary, for we scarcely can get apples enough to bake without worms. I have examined closely to is setting, or when further advanced, that the fly is setting, or when me at any time to see the fly
works. It failed may
working working. Some say they are in the ground all
winter, aud that they come to life in the spring. winter, and that they cons some practical information as regards the depredators, so that we may be
able the next season to prevent their ravages if posable the next season to prevent their ravages if pos-
sible.
I would like to ascertain which is the best way to save apples during the winter-in barrels or on
boards in bins ; and also which is the best mode of pitting in the ground. Last year I pitted Green
Newton Pippens, Northern Spies, Alexanders, and Seek-no-furthers ; of the latter Ilost seven bushels My plai inches wide and onc foot deep ; I pilcd the apples about two feet high all along the pit; I I fixed rafters made of scantling across the pit, then I sheeted with apples ; then covered with earth. This year I have pitted my apples according to a recipe I have seen
in the Christian Guardian; that is, to dig holes in in the Christian Guardian ; that is, to dig holes in higher than the surface ; then cover them with
few inches of clay, so that they will freeze few inches of clay, so that they will freeze all
winter. In the spring the apples will come out winter. In the spring the apples will come out
fresh and good. so thie recipe says.
Matriew Cooch. Walkerton, Dec. 11, 15:6. [The injury done to our fruit is every year in-
creasing, and it will require increasing vigilance to creasing, and it will require increasing vigilance to
defeat them. To (1) this it will be necessary to
have recourse to our allies, the feathered tribes and
others. Encourage the multiplying of birds, protect them frourage the multiplying of bemies, place birds, pro-
thouses in gardens and orchards. Plant and preserve trees a
well for the homes of birds as for shelter. Keep fowls in the orchards; let your fowl-houses be situated that, if not in garden or orchard, ther
should be direct access from it to them. The should be fed in thens; corn-meal or other food scattered under the trees, that the fowl may pick
up the insecte with the foed surface, make havoc among the young broods. Keep pigs in your orchard as much as you can
with regard to the under crops, if it be cropped they will eat all the fallen apples, and put out of detory insects. The washing of fruit trees as you have done in
a remedy for the bark louse, not for the coddin moth which is the enemy you have to control with
hence the mistake and the failure. The codding moth must be searched for in the stem of the tree and cut out. It is one of the most difficult to
contend with of all the insect enemies that infest our orchards.
As to the pitting of apples, you will see some
good suggestions in another column of this Advo good suggestit
CATE. - ED.]

## The Provincial Exhibition.

OCATE you your last number of the FARMERS' ADhe Proviucial Exhibition for 1877. Now I wish cial Exhibition which, if if adopted, would, to my
mind, prove more beneficial to the Prow mind, prove more beneficial to the Province in gen
eral than the present system. There is certainly great expense incurred annually under the presen perambulating system, and we are well aware of
the large amount of money those cities have t spend every fourth year in erecting additional spend every the accommodation of the exhibitors.
buildings for
No doubt many No doubt many of the ratepayers of London drea
to have the Provincil Fair being held there, knowing the additional tax that will be laid upon them
The plan I would suggest is this :-Let the Provincial Exhibition be entirely done away with, and dollars to be divided thus: two thousand each to London, Guelph, Hamilton, Toronto, Kingston and years, the forth year the grant to be withdrawn from those places and given to hold one great cen tral exhibition at Toronto. There should be a guarantee given from all those places that receiv
this grant tehold no Exhibition the fourth year but all unite to make this great central fair a grand success. This fair should be held for two weeks, should be on the ground not later than Tuesday the first week, and live stock to be on the ground on Saturday, ready for the judges to commence thei would then have ample time to go through their work judiciously and not be hurried as they are at present. Under this plan the prize list could be There could le be several olasses added to the prize list, which would give a large number of animals a
chance to exhibit for which there is no class at the present time. Such an exhibition/ would be looked forward to with great interest by the mechanic,
artist and stock-breeder, and would attract visitor from all parts of Canada. These are my views
and I thiuk they should commend themselves everyone that feels an interest in the agricultural
associations of Ontario. I hope some one abler associations of Ontario I hope some one abler
than I am will take hold of the subject.
Nissouri, Dec., 1876. [It is well to hear suggestions from practical men. Subscriber has some experience in the man-
agement of Exhibitions as well as exhibiting. Many would object to the plan suggested without being able to give publicity to a letter. All changes
should be discussed. Such men as exhibitor do good in causing others to desire improvement.-ED,

## Cotted Wool.

Sir,-I notice in your last number an enguiry
as to the cause of cotted wool. I have found by experience that change of food or atmosphere is
not the primary cause of cotted wool. I think the not the primary cause of cotted wor. Ithink the
cause is hereditary. I remember purchasing ram lamb about twenty years ago, and I found
when I came to shear him that his wool was badly when 1 came to shear him that his woot was badly
cotted. I thought it arose from not being procotted. Itought it arose from not being pro-
perly cared for, but the second year it was cotted
as bad, if not worse, and his lambs were also
otted, and continued so more or less year after A few years ago I had a mongrel brred ewe
whose wool was inclined to cot. I had three or our crosses from her, and their wool had the same endency. I have had no trouble with cotted wool since I kept nothing but pure-bred sheep. My ad
vice to Mr. Best is to keep an eye to his sheep at the time of shearing, and any whose wool has a tendency to cot should be turned over to the the
butcher. Select none but free open wool ewes for
Stor breeding, and put them to a pure-bred ram of whatever class may be thought fit to breed from, and
there need be no fear of being troubled with cotte there need be no fear of being troubled with cotted
wool any more.
J. FrANKs, Harrietsville. [Thanks to Mr. F. for his' communication In he letters we receive daily, and in conversation imed at by our publication is beoing that one good bservations on agriculture are not merely y. The ver, and then thrown aside. They are read, comThe readers known facts and actual experiments. other and with us on topics of the greatest interes the science and practice of agriculture. This is selves from the light around us.

## Horses for England

I see in the October number of the Farmers veterinary surgeons of London, wishing to know the best class of horses to sell in England. Being a dealer myself, and having been in Cana prepared to give you the best information I can. What we require most are good carriage horses,
from 15 hands 3 inches to 16 hands 1 inch high color bay or brown, with high knee action, long 1,100 to 1,300 lbs. weight. Such animals are always good to sell in our market.
I should say to breed such from your mares
you should use a coach or stallion, with big flat legs and high knee action but be careful to keep from any thing appertaining teneral purpose have nearly already ruined the breed of horses in Canada; and, in conclusion, remember it is not the peed that is required for England, but the style. Spofforth, Wetherby, Yorkshire, England.

## Another Supposed Swindle.

Sir,-Enclosed you will find a drawing of the bought one farm right to make and use it. did other farmers in this township. The harrow with taps and bolts. Do you know put togethe harrow made in London of the same kind, or nan named James H. Thorp, who sold the right
Goulburn, Dec. 25, 1876. A SUBSCRIBER. [We have examined the paper you have for son in this city. We can see nothing in the plaus of this harrow to consider it equal to the harrow given any account of it that we have yeen. It hap pears to us as a useless affair; it it was worth anything it would not be necessary to sell it by
travellers, but let it openly be known : if farmer will be swindled we cannot help it. - EDD.]

Sir,-I sec by letters in the Advocate that the parts of the country as well as here. If each our farmers would raise a good brood of turkey nd drive them into the turnip or mangold patel them. The turkeys are splendid hands at pickin off the caterpillars. I believe I saved my crop of mangolas by driving the turkeys among them.

A Step in the Right Direction. pies -Enclosed please find payment for thirteen The foregoing members of the Siouth (irey Agri
 in which youn ontain this clul,

C゚arden, (Orchard and forst. Protecting Grape Vines in Winter. the grape vines tas, we may conclude, been made
in almost all instances. Still au article in the
in in almost all iustances. Still au article in the
Rural New Yorker on this subject is so plain and Rural New Yorker on this subject is so plain and
practical that we reprint it. Some vine-growers
may even now protit by its suggestions, late as the season is, and to others it will be useful for
references when the most fitting season shall have regain commenced. The value of the vineyard,
aherever the growing of vines has been judiciously carried on in Untario, has been remunerative, in
some'sections of the country very protitalle, and as it is yet in its infancy, we hope the country will be found deserving the name "" ineland" given to
Canada hy its early discovercrs :In several of the Northern states, and in the Canadas, grape-vines of all kinds require protec tion in winter. In some localitiess where there 1 ,
little dauger of the vines being killed down, it has hitte dauger or the rines being finted down, it hard
been found that severe colld in
sures productivencss, and we are inclined to sures productiveness, and we are inclined to
believe that lrotection to the grape in winter
might be practice? with benetio ia many regions of country where it is now considered yuite unneces siry. A few yenrs ago strawberry growers would
have thought it a waste of money to cover thei strawherry plantations with any kiml of mulch as a protection to the plants in winter, bat it is now
done quite extensively, and is a very profitable there is any great danger of the plants of the more hardy kinds leing killed out by frosts, but they
may be very much weakened, and the fruit-huds may osed in the crowns during winter very much injured by exposure, if not entirely destroyed.
Now, the fruit buils which are to produce gra next year are already formed on the vines, and i by cold, or in nuy other way, if a full crop of fruit
is to be oltainal another season. (of course, in is the warmer parts of the country. the moore harry
torts generally pass the winter unharmed, but the tender kinds reyuire protection alnowt everywher of the Northern states. This is well understood by most of the cultivators of grases; but we think
few of them practice protection extent as would be foumd protitathe through an quantity and quality wethe fruit. There is a satur methen uf protecting vines in
 as the terminal bull is mure liabte to finjure in handing, either in layering or taking up in spring
than the others, anit if they so saitely through
it


 must he
numaler
luth sin
set wi
set set up a
altionts
winle, $=$

Effect of Draining an Orchard. The Garlener's Chronicle once related a case an orchard of apples and peans, plums and cherrics
which were planted in a heavy clay, trenched down to an iron pan on which it rested. For
few years the trees grew very well, that is to say aw years the trees grew very well, that is to say
as lhe as their roots were near the surface and
got the warmth of the summer's sun ; but as the adyanced downward the erowth became small, and
by degrees less and less, till at last the treay by degrees less and less, till at last the trees
ceased to grow, and nothing flourished except gray
linchens, with which the branehes soon became covered. The owner was advised to drain th afterward vitality was roused so effectually that the linch -ns began to disappear, cast off by the
welling bark, and decrepitude, in its last Walling bark, and decrepitude in its last stage vigor. In the second and thir il seasons after drainage th
feet long.
Prof. Lindley remarked that this sud en change ture, as a consequence or result of very deep draiage. Rain becomes heated by the surface soil an
carries its temperature with it as into the soil. The gain in this way is estimated at from ten to fifteen degrees in summer-an enor-
mous gain, making the soil a hot-bed and nothing

## Gladioli for Winter

 It is to be regretted that these highly orna-mental bulbs are not generally cultivated for winter blooming. They are as easily grown a hyacinths and bulbs of a like nasure, and their
cheerful appearance for house decoration during cheerful appearance for house decoration during
our dull winter weather, will amply repay the
lit hitle labor they give.
To insure success, select in spring, bulbs which
have not pushed their buds. These should $b$ b kept dry until about September lst, when thee
may le potted in rich sandy loom, single bulbs fre-inch pots. I sometimes put as many and if the bulbs are chosen of equalteen inch pan fordwarduess they will come into bloom together and give a splendid mass of flowers for parlor o
other decoration. As soon as potted they placed in the greenhou se until they have mate con siderable grow th, after which they may be moved with liquaid manure position
Those who have no greenhouse, may plant the ich border. When they . Tuly in the open air in ont or fifteen inches, they may be dug up and onttel : and before there is any danger from frost,
hould be removed to a sunny window in the hous nol kept well supplied with water. The best time when the soil is rather dry ; and if they are potte and well-watered as soon as liftel, they recei re no
apparent check whatever, but will give as gool the open air. I have a bed in in thewered it house of alout three hundred bulbs which 1 have
lifted in this way, and they are all giving indicaons of bloom.
well maturcul, may be potted tor spring flum, and to make a root growth which to induce them hy acinths an! some "ther winter thowering balbs but think it best to avoil giving much heat in
the beginning, as this would be ant to canse them tor make twow wak a grow th for blomo when forced
in this way.-Giadeners. Monthy.
(ikativis (mbants-The Rural I rays:-Lovers of the currant and gooseberry have to attend grafting them upon the Missouri conrraut of the borer: great drawber thus by a single, happy hit, the two yation have been overcome. The beanty of culti-
little trees whe as displayed at the Centennial, is of itself berries, to insure their general cultivation. It would he
well for thosis whin intelt ell for those who intend Ereat difference in the varieties of the Missouri currant, some making better stockis than others.

## Orchard Mannuring

 There would seen to be no good reazon why, ifwe wish to raise gool orchard fruits, we should We manure our trees. People often look at trees
not mand
growing on idel growing on recky hillsides and argue therefrom hat trees can grow without manure. They know nure or they will not thrive, but they regard trees
as a different order of vegetation, something that as a different order of vegetation, something that
can thrive and flourish where nothing else would But, in the case of trees on rocky hillsides, the
land is often anything but poor land is often anything but poor. The rocks them
selves frequently contain valuable mineral matter selves frequently contain valuable mineral matter,
which, as the rock decays, is presented in a form that plants can feed upon. Then whatever vege ation grows among the rocks remains there to de
cay, and even leaves and other foreign substance cay, and even leaves and other foreign substance
that blow into the crevices formed by tho rocks
make a valuable pant make a valuable plant-food, on, which the tree
thrives. Indeed, trees in apparently poor, rocky thrives. Indeed, trees in apparently poor, rocky
places are really much better off than many tree places are really much better off than many trees
in orchards, where they are in what appears good
land. In more level land trees must be manured. In land. In more level land trees must be manured. In
many cases it is as necessary to the best sucess that trees have an occasional manuring as it is that
ny other crop should have manure. There hav been many discussions as to whether manure fo
ruit trees should be applied broalcast or plowe rruit trees should be applied broadcast or plowe
in. For orchand trees there is no ule ; it depends
on circumstances. If the trees are on ground on circumstances. If the trees are on ground
where vegetables are grown, the manure is of
witand ourse turned in for the benefit of these crops, an
he roots of the friit tree fight with those of th vegetables for some of it, and get it, too. But
there are many orchards where no crops are grown there are many orchards where no crops are grown
but the trees, and then it is an excellent practic ot apply manures as a top-dressing at least every other year, if you would have them bear an abun
dance of good fruit.- Boston IIome of Chemistry.

Chestnht Plantations.
he plantenl where the trees are the remain. They the young trees may be thimed out when partly ooses: and thoke valualle timbleer fur various purrom limbs if near together. A gook way is to orn, with at least turn chestmuts, so that one tre lure unifurmits: ('ultivate with, the corn the first year; the seemid year the lam is plowel carefully of corn, and the cultivation comitinuel. By the third year the sombe bestmuts will By the hine growth, anil shomlly be lightly cultivateal for a year or two more
harrow.
By this time they will form a hamelsome hantation of young trees seven or eight feet apmart ach way. It must nut he overlowkel that the Chestnuts will not grow at ill if they are allowe
to hecone dry in the shell; as soon as antwe
 or nuss, mul he thus hept till phantel in a fresh,
healthy condition.- Countrin (iontlinemi Tire New Pewhes,--Charles Downing writest unler's Farly, Amslen's. The new and Honeywell-all ripenel this year so nearly at the same time that it
is diticult to say what is the 1 ifference, if any Last seasm the Honeywell ripened two thre
liys in auluance of Alowanlurs Eanl. my near thgether: this season hn,th are ripe it th der's Farly and Ansinden's June workel on the sann tree, were in cating the same day, which woul
make the three varieties rinch at
The The fruit of each, in form. cullor, thesh and quality are so near alike that I wn mable th see any , liffer-
ence. The Heneywell, however, has no slands
while the other twa have. Whine the oflher two have. If the record as to their
mrigin is conrect, there is no doult, that they are all of different migin, lut not vet distinguishable, an not sen High's Early Canala this season, Inot as Shewn last vear, think it similar to the aloove kinds. nenel ahinut the same time, lout was less ins size. woll and quite free romuthe meltine higher thawill ill riphen it the sance time say ine therer cean any the same homalit, Mear each wher, the trees well

Growing Large Bunches of Grapes. Mr. John Curror, of Eskbank, Dalkeith, Scotland,
gives the Garden the following account of his mode of growing a bunch of grapes, weighing 26 pounds, lately shown at an Exhibition in Edinburgh:-
The vinery in which the large bunch of The vinery in which the large bunch of Raisin fruit and flower show at Edinburgh, is a small leanto house with a southern aspect. It measured 20
feet in length by 14 in breadth, and 11 feet feet in length by 14 in breadth, and 11 feet
height at the back, and is heated by four rows 4-inch hot-water pipes. The vines were planted in
1868 , and produceel four hunches 1868, and produced four bunches each, the third
year after planting. They are planted year after planting. They are planted three feet
apart in the insile of the house, with an outside border 13 feet wide and 4 feet deec, the soil of the
border being composed of one-half yellowish clayey border being composed of one-half ycllowish clayey
loam and one-half light gravelly
strongly impreg. nated with iron. With this soil arengly impreg.
hixed a few
half-inch bones half-inch bones and a small quantity of manure.
The border is top-dressel every year, inside and out, with three inches of cow or horse manure, and gets no protection from rain curing winter. There are fiye vines in the house besides the Raisin de
Calabre, viz.: two Black Alicantes, one Lady Downes, one Rowood Muscat, and one Mre Pince all of which carry bunches about the average size. produced three other clusters, one of which weighed 6 lhs., another 10 Ils.s., and one one that still hangs on
the vine is calculated to weigh about 18 lbs. This the vine is calculated to weigh about 18 lbs . This
gives just 60 lls. of grapes for one rod about 14 feet
ionl. The vines are usully stan Lives just
long. vines. are visually started about the 15th
of Fiebruary, when the house is shut up for two of February, when the house is shut up for two
weeks without fire- heat. The third week they are several times each day until they break into leaf after which the syringe is never usel. I leave
from two to three inches of air on all night, both at lack and front, according to the state of thie weather, and give very little fire-heat, except when the The insile border yets a thorough soaking with water three times a year at starting with clean Water, again after the berries have set, and finally,
just before they begin to color, with guano water. Under this treatnent the leaves grow large and leathery, which, with well-ripenel wool, I consider
to be the secret of getting large bunches of grapes

Destruction ard Supply of Timber. erica is a subjecet above all others connectod with the natural wealth of the country that engrosses the denuding of the country, is to be attributed much of the failure of crops, now of so frequent
occurrence, and many parts of the country already occurrence, and many parts of the country already
begin to feel the scarcity of timber for the many purposes for which it is required. The following
article from the Western Farm Journal, on the de article from the Western Furm Journal, on the de-
struction and supply of timber, is well worth our consideration:-- West is fully alive to the necessity
Now that the Wer of planting timber, not only to supply the annual
waste of the country, but also-and this is real the most important item-as a means of ameliorat. ing the climate, and preventing the recurrence of
destructive storns, it may not be uniuteresting to our horticultural readers to know something of where the timber annually cut for market gocs to.
It has been estimatel that $50,000,000$ of young trees are consumed every year by railway comtrees are consumed every year by railway com-
panies for ties alone. Besiles these there is used
enormous cuantities in the buiding enormous quantities in the building of cars, for
fuel, fencing and other purposes. The fences of the United States are estimated. to have cost $\$ 1$, $800,000,000$. To keep these in repair costs over
$\$ 100,000,000$. The destruction of timber in clearing up new farms in timber countries is still im-
mense, insane as it may seem, that such property shoulli he ruthlisessly, burncd. It is esti-
mated that betwcen the years 1860 and 1870, fully 10, 000, ,000 actes were so yournedt bund 1870, fully
The Forest lands of the United States are rated at $380,000,000$ acres, and the total annual con sumption of forests is estimated at $5,500,000$ acres 2,000,000 acres for lumber, lewing $1,000,000$ acres for other uses.
About 50,000
sumed; 5,000 acres are necessary for charcoal, and $20,000,000$ fect of lumber are annually produced. In other worls, 40,010 acres are cut for
ties, 600,000 acres for fucl, and 21000,000 actes for lies,
Oreger and Washington Territory contain now
Oreg acres fol, $2,000,000$ acres for

 into and it will be soon atter the Pacific railroadi
 so seriously encroached upon that they are already beginning to feel the effects in climatic changes.
Wisconsin is fast following. It is estimated tha whaconsin is ast following. It is estimated that
what timber remains in Michigan, Wisconsin and
Minnesota Minnesota will have been virtaally swept away in
Misensin and ten years.
East ; every town and To all the lake cities and the nois, Iowa, Missouri and the South. K Kansas and
Nebraska alone cond Nebraska alone consume 50,000 acres of Wisconsin
lumber each year.
moer each year.

The Eastern States are thoroughly denuded o Maine are becoming almost extinct geat forests of has but a limited supply, and the only wooded
tract in New York is the Adirondact principally on account of its inaccessibility. The South has much timber, but as a rule only in situ-
ations difficult of access. To those who have see
timber in the Iowa section of the of cultivated Hall at Philadelphia, and the comparatively short time in which this has been grown to its presen
size, the problem of the cultivation of timber will size, the problem of the cultivation of timber wil
not be one difficult of solution. It is the fact that on all good prairie soils timber may be grown as
source of porfit, if the far returns for a few years. The difficulty is hos people, even those fully alive to the importance of
the subject, put the subject, put off planting year after year, think
ing next year I will begin. Alas! next year, like to-morrow, never comes. Thus the day of profit is also delayed. We reiterate what we have often
written before : on all prairie written before: on all prairie farms belts of tim-
ber will pay in the protection they aftord to alone, and the growth is clear gain. It is difticult to make many understand this. Nevertheless some do, and these are the ones who will soon rea.
profits, while their fellows are waiting to see how
that class succeed.

## Fruit Trees.

Frit trees, by the average owner of land, should
be planted for family reasons- that is to say orler to have a supply of fruit always at hand on one's own place. It is'strange that people shoul.
have no better reason to give for purchasing trees than that they conld not get rid of the peldller without, though they must pay high prices for poor
trees, which may never turn out as representel unless the peldder of trees is a purer beeint than the pecdesser of other articles. Still, it is well that some
trees are planted trees are planted-and even trees bought under fyr, for they will, or may, he of some use in the eard Many persons ask what land is best for certain There is no doult but that some soil is hetter fore trces, and some manures more effective than others excellence is desired, and need not worry the over age man. There is no soil nor any manure that is
ready to ome's hand but is quite The troulle winase with
why trees so often fail is, that the roots the reason to get dry. Dry roots are a worse condition of things than poor roots; and their the earth should
be hammered in very tightly about the roots the trees severely prunel. Not one tree in ten1
thousand need die if these things are really at. The after
The after culture of trees is very simple. Keep,
out insects from the stens of the trees near th ground ; do not disturb the surface roots by digging or plowing near them; and spread on the surface
alove the roots, now and then, something for then to eat.
Moss on Yoces Thees. - We hear the enguiry prevent moss growing on our young fruit trees? thin lime whitewash, or strong soapsuds. may be simply scraped off, if thick, and the bark then washed with 8 rapsuds. Moss is moreapt to grow on feeble, stunted trees, with old rough bark,
than on thrifty smooth onea, and hence goorl cultivation and vigor are best to prevent it. Some
times it is the tosult times it is the result only of the trees being much
sharded, in which case it is not to be regarled as a
formidable evil in itself,

Earthing UP Trees.-It is often advised to
aise the soil about the trunks of trees as a prote tion against mice, and for other purposes. $\begin{aligned} & \text { protec- } \\ & \text { But }\end{aligned}$ is questionable whether in guarding against one Ve have noticed a not run the risk of another. Wo rot around the collar, and there is also danger of the earth getting permanently y raised so high as ccess of air which is essential to their healthy gr wth. Sometimes in raising a piece of ground
or levelling it for a lawn or other use, the general urface is elevated a few inches. The result is trees, whose roots thus become too much buried. oxing around the trunk is resorted to in some
cases to obviate this evil, but it is ineffectual, because it is not the stem of the tree merely, but the entire expanse of roots, which is affected. When ing the ground where trees are already growing, we may as well face the necessity of making a new antation, for there will never be any satisfaction
 Owing to the failure of the English orchards this
year very large shipments of apples are being made Great Britain. When the crop of apples fails Guernsay for their generally look to Jersey and uernsay for their supply, but this year that houses are shipping as much as 15,000 barrels a week to Europe, England, as said, being their
principal destination. Although, says the
Athough, says the Scientific A merican, there are
o available statistics to show the exact rate of speed with which they are using up the wood sup. great rapidity. Taking the ligitimate use of lum er, industries based on its manufacture, constitute the second point of magnitude in America, 150,000 persons are stated to be cmploycd. About ducing sawed lumber alone; $\$ 113,500,000$ are in-
vested therein, and $1,395,(6) 0$ laths vested therein, and $1,395,(060$ laths, $2,265,000,00$ yearly manufactured. On the secondary interests based on the use of lumber as a raw material-
carpentry, calinet-making, ship build
millions of perple se. Prof. Brewer's assertion, wood forms the fuel of two-thirds of the population, and the partial fuel
of nine-tenths of the remaining third. ${ }^{\text {Add }}$ this to the former estimate, and some idea will le ob, orests that is constant ly in progress. As a fact,
t is well known that in 1871 as many acres of forest were strippod of their timber supply ('hicago with fuel, and yet no attempt is
made to reproduce.- Lamel cund Wutce: Freking Apples. - A sprinkling of sawdust
was put in the bottom of the larrel the of ice, fitted in the sawdust, then apples set on
end as thick as could be packed, then sawdus sprinkled on these apples again, and so filled, and sawdust, and they were fre-h and gool when taken unt. Thave found good apples in the leaves under
the trees in thio spring, where the suow laid on Apples can be frozen up, in the fall in tiyht barrels
and kept so till spring, then rolled into a cool dark ellar to thaw gralually and be all right. I pu
away a barrel that way once, in a closet in per story, and they froze up. It stayed thore until warm weather, when I rolled it to the cellar and
thawed it ont and it was as good as ever.-Ohie thawed
Farme
New forests are said to he growing up in tho ones are cut off. Especially in the hill towns is as farm land twenty and thirty years ago is covered with a vigorous growth of young forest ying agricultural districts liaving rendered such change inevitab! .
The descenlants of the shirt-hurn cow Duchess Ducie's sale in Fngland in I $5: 3,3$, have recathell a sal
of $\$ 5,000,600$. The mother of all this wealth began At the last Falkirk wattle fair, Be, thand, ther
iere 8,000 t.
(1)(10) 1,200 and 1 , ,50 horses. Sules raus lower than last year in the cattle ring : the horses were of ton high
at
Grale for farners

## 然路try yard.

## Feeding Fowls.

There is much difference of opinion as to the best
methol of fecedining sriain to pooultry. Sonne leave

 when grain is constantly by, than when fell twice
or thrice each llay all that they will eat by throwing it on the ground and letting them seramble for
it. This is because of the strife amoun them for the largest share. The quantity aaten when the barrel
is lefftopen will be great tor a week or so, and then
the

 one, antiblecesst course, in fattening for the table
chis practice is good, but not in the ordinary management of fowlis kept for general purposes. Eren
after the first rush and gluttony are
are over, there will be too much consumed daily. The better way is to throw down twiee a day just enongh anll no
more - never as much as they will swallow. Prace
the tice only can determine the quantity required to
keep them moderately fat. They should be handled oecasionally (nightelis a gooll time for this) to find
out their condition The caution respecting over-feeding does not apply to young or partly grown birds, Give them
aplt they will consune. There will the no danger of
iniury




 the part ont en eat as inuch as penssible for fifteen
induce them to eat as or twenty davs, and thenk
 consists in butcheriny jost before, the ape thite is
satiated, and a reaction of the system prevents $a$ satiated, and a reaction of
further accuunulation of fat.
 of a desire for "setting", by puttiny several lump,
of i ie in her nest. such uncongenial nest-egys must certainly exerecise an demonorizizing intluence on the
would-lie mother lut tin sume may surely caleuliate on requirinng duplicate eatrs.
 warn, as it digests eassily and warms the hens whl
after a long, cold nimbt. At nilyight we must feel

 ashes are of strat lverefit to the hen-lonse ; pat them every day ; the hens pick ont all the sittle e itit. of slate, which serve to niake eysslyell. Ohe phaster



 ghass on thics
 and gravel, or brick-layers' rublishl, will diumal






[^1]

Fresh, pure water for drinking, and diet changed
frequently and given with discretton.
Dustuyg
 yravel, a limited amount of fresh meat and greel
tood should all be provided. By adherints strictly tood should all be provided. By achlerink strictly
to these requirements you need have liite fear of
Poultry Shows for 18 g\% Poiltry Society will hold their

 ford on the 20 th to 23 rdd Felruary, when we hav
very assuranue of a gool exhibition. Their rrize ist will be out in a few days. W. S.
Natio

Nen | National Association of Fanciers |
| :--- |
| Chicago on Felvuanty 12 th to |

## Nalue of Oats for recting.

There is a ralualle article, , lristling with statis
 the heavier the oats weilh the nomere nutrititue they ing for several years sallowell the ancriculturuar laby



 ular tissue 7.36 and ashes 2.2 .2, The azotisel
sulbstances and the sum of the hyirrocarburets sfat starchl, \&.c.) varied to the greatest extent in
humdreal parts of the former 3 , latter $19.70-$ hence, suys he, the tirst
 such as these of carriage and ounilusus comp, minies,
there is real interest in knowing the complusitimn

 says: "These remararkald, dififererenes between the
mean composition of the onts of the two serien tei
 Germany, richer ine throtein sullstances, and at the the same tine eroorer in starch, resects, and nutritivi,
value sulperior to the mean of the sinutecen Frencl
 the elimate, the kind cellt viatell, the nuanure, or the
year of harvestives year of harresting? That the nutritive value tein to the noi-azotisel properties, was uttery in
lependent of weet whit




 fillogrannues, In a great many rural ant, in
irandemen


The Cost of drops.


 dhes it pay. Theprocess í a simp so, what proan


 liarming, and let us have the resslt?

 Stuesing on the cost of raisiny whent, 1 lave aingly

of expense what $I$ considerell to be a fair valuation.
 real lers:
11. days Iflays Plowing at \$82, in per "day. 1rawing

 Thrresting
literest on liand at 7 per cent.
Wear of tools..

Net tutal
.$\frac{2300}{829712}$
 Mushel. The soil in which this crops was raised per



 number of cows whose milk was sent to the factory was 700 the past season, 11 of them the property
of the writer. The price of cheese sold in A August
 ic. So money can le made even in the hard
Jons lav. Lial Kintore, P. 0 . Miss Wilith Hean will Ylease forward her P. 0 .
 five the hest remely.

 Heath; then sak well with lye. Some add to the suider the eaties and in the little corners of the
 hat is to be preservel.]

Commerciar.












## (The staxy.

## 'I Came to Ask-

Two protty, old-fashionod cottages standing near each other Aneaow, which from the birth of Spring to the dieath on yellow dandelions, and after that wore a robe woven of sanow-
fakes as fair and pure as when they fell from the skies, until
 ing birds ask
ished again.
In one of them, the larger, in front of which was a neatly


In the other-Rose Cottage they callod it, for in rose
it was completely surrounded by rooes; ; they filled the space
in front and clambered over the porch and up the sides of the house - had lived a quiet elderly couple for many yearg, until titie) beging, when they went to hoaven on the very same day,
ast they hand
Cottaye waititing pray for new teonants.
 till they're a hundred Why couldn't these have done so so
instead of dying the the early age of eighty
And
 " "Thrue fur ye, boss," said Mike, with an ominous shake of There was something else Mr. Guernsey insisted he detosted,
and that was an old maid. "A man," he used to say "don't
neth around him to keep him sweet, but a woman doess
af course

 Inm very gorry for them; they have
but, all the same, I don't like 'em."
 something of which he ought to have, been. auharney, sand
which, for that reason, I shant set down, and then went on
dot garcastically, "And now we'll have all sortst
 "Faith, I do," said Mike, grimly.
 "Aither that last or a fidde, sur." gaid Mike. "I bor the
gurril a-carryin it in yesterday in its own nate little coffin." "She'll play and sing from morning till nitht, out of time
and tune
focate.". and I I tahall be obliged to close all the doors and suff.
"Anyhow," suggested Mike, "there can't be no babies
 more in, Mike ?",
"To-morrow, sur," said Mike. "Och, but itt droadful !" We'll go a-fishing, Mike. Be ready, to-morrow morning at
day-break, and weils stay away a weeks. 1 never could bearr
 Tll pull up takes and
"Yis, sur,", said Mike
When Mrles Guernsey and his man returned from the fish





 old bachelo
lost triond.
"Mike "

$$
\begin{aligned}
& \text { riend. } \\
& \text { like e" shouted Mr. Guernsey }
\end{aligned}
$$

"Sur !" shouted Mike, , ,unnning.
hant with a potato in one
" and a kuife in the other. "Remove this dog."
${ }^{\text {potato. }}$ But "this don" clant
But "this dog" "learly objected to being removed. He
gkipped nimbly around in an what lark!
under the parden chairs,




 your mistress," he said to t.
answered his ring.
" Which $\uparrow$ " asked the girl.
"Oh! I theorted prraps Guernsey. didn't know the old lady's laid
up with rheumatiz-got cold moving. Will Miss osborne do ? "Anybody", said Milos, walking into the parlor, as, ghe
threw open the door. Evidently Miss Osborne was extremely








 ynich of suma





















 and











 and

























 $\qquad$



 and

 And pany yhata thouluth hat hor










 may










she cried. "How good of you to come so early ! "I'll go call
brother Robert."
"I donntt want to see your hrother",










 thean old matd hend out her ama, Ho placed the chid in










 tire exp.

## Be Employed

Fappinaen if almost sure to reaslt from the use engaged in their seeveral callinging or or profeationem
 spoctaility honor, and wealth. The while oom






 means the most eligible modes of employing time
nor are they productive of genuine self-satisfaction Pursuits of a more tranquil nature, such as study
reading and music, should engace reading and music, should engage the minds of
those possessing leisure ; but even these dainties will taste better if seasoned with some hard work

True Politeness is benevolence personified; it
the practice of kindness. There is virtue even is the practice of kindness. There is virtue even in
the form of politeness; it may be merely mech
anical, still, like an air cushion alltheugh the nothing in it, it is very comfortable in use. Why
not cultivate not cultivate a pleasant mode of recognition for
every one we meet on the street, every one we meet on the street, however slight
the acquaintance? It woull many a time lighten
the load of some sorrowing the load of some sorrowing heart, or cause some
new resolve to "try again" when new resolve to "try again" when on the some
verge of no utter hopelessness, by the inspiration of the feeling "there,'s somesobody at least cares a
little for me." It elevates the lowly to have their littie for me," It elevates the lowly to have their
superiors greet them courteously ; it unwittingly
to themselves thy of such rese, recognition a resolution to act more wor behavior, a more tidy dress, a more dignifed de
portment.-W. W. Hall.

## The Modern Novel.

A modern novel is condensed thus :
vol. I.
A winning wile,
A sunny smile,
A feather ;
A tiny talk,
A pleasant walk
Together.
vol. II
A little doubt,
A playful pout,
Capricious
A merry miss,
A stolen kiss,
Delicious.
vol. nir.
You ask mamma,
Consult papa,
With pleasure ;
And both repent
This rashk event,
At leisure.

## Prize for One New Subscriber.

To any subscriber sending us one new name, w will send a beautiful lithograph of the celebrated A very handsome young woman, neatly attired, leaning against a marble mantelpiece in a graceful attitude, reading a letter. The envelope and few flowers which have been sent to her are lying at her feet. A fire is blazing in the grate, and a tel. A door is writing materials are on the man busy in the shop adjoingen, showing her fathe the beauties of the picture the beauties of the picture. It is $22 \times 26$, and i
superior to any picture we have that we have seen with any paper in Cout, of such a price.
"The Ofre
ny farmer's hom is for any gentleman's parlor or sees it, and on your will please; everyone that cheerful and attractive. In tone and finish the picture is exquisite, and is well worth $\$ 2$ withou the paper. We guarantee satisfaction to everyone that earns this picture. If you are not entirely atisfied with it we will give you 50 c . for it if re-
turned to this office within price of this very handsome days. The selling was 83 . They have been reduced made such arrangements as tó be able wo fill made such arr
For two subscribers we will send a handsome silt-edged manual pocket diary for ' 77 , bound in morocco.
Should any prefer choice seeds, plants, useful books or cash, they will receive a liberal reward or their trouble in obtaining subscribers at the The following fre each new subscriber.
The following from a correspondent shows how
the "The Offer" is appreciated :Enclosed find $\$ 1$ for another
His name is - $\quad$ Por another new subscriber. The picture has pleased me and everyone that has seen it first-rate. I could get a lot of subscribers
if you would give me the picture. W.
W. S., Woodstock.
[The picture is given only to old subscribers that it and cannot get in a new subscribers that want $t$ the lowest possible price. We positively refuse sell one to a new subscriber, as we have at great xpense procured it for our subscribers. Agents mishing to use the picture to aid in canvassing $\underset{\text { ames, accompanied }}{\longrightarrow} \xrightarrow{\longrightarrow}$ in four mes, accompanied with the four new subscribers' Saper free for 1877; if five new subscribers are
sont in you may have; the handsome Offer" and the paper for i877.

## Dancing.

I am much interested in dancing. I am not a
dancer eíther, but would like to know why that musement is condemned so severely, while that are liked whioh I don't believe in at all. That is, than dancing. I I do not think there more hartfuil in having a social dance at a friend's house or yourn
own, where you know every one, and know yon own, where you know every one, and know your
are in good company. Yet I don't believe in
going to dances where you have to are in to dood company. Yet I don't believe in
going there you have to pay; for there
every one can go, and the company is too every one can go, and the company is too mixed.
I feel like dancing when I am lively and happy; would not danceng any other time.
I would like to know what the readers of the Advocate think about the parties where they play
kissing plays, tell stories, in fan of oourse, bat thasing plays, tell stories, in fon of oourse, , bot
thoy don't dance, -think it a sin! For my pati would give up the parties every time. Ayd part be
sides, there some people that will not exert them. sides, there some people that will not exert them-
selves enough to get exercise in any other way.-
A Surcarber

## Happiness at Home.

It has been said by a philosopher that every
ross word uttered or angry feeling experienced, leaves its unerring mark oxperienced, verified by a close observation of the countenances those around us whose tempers and habits are
amiliar to us, and its truth thus established the lineaments of the face show traces of And nd mental system more must the general, moral more susceptible of affected by them? Nothing more susceptible of proof than the statement good old Biblical saying, that "a a soft word turneth wincere wrath." Many people, really possessed of a slves to fall into the habit of using ungentle and ven unkind words to those around them when, if way, attention were called to the fact in the right They mean no harm, but they do harm, both to hemselves and to their associates. More especiWhy is this harm perceptible in the family cirole,
Where the developing child is the proud imitato all the acts of ite eiders, and particularly those which are pronounced and noticeable. Here is are eventually ripened into a harvest of harshness Too too often gathered in a crop of vice and crime. Too frequently are these sins of the parents visisted
pon the children, even of the third and fourth eneration.
This all re
This all results from a lack of full appreciation ness is made, not born. It may with." Happiargued that it is an impossibility may with reason be happy
and home when one is crushed by the cares of life--by
difficulties crowding on every difficulties crowding on every side. But that
brings us to the very point we are seeking and leads us to repeat, that happiness is made, not born. If a man firmly resolves to throw aside the
vexing cares of business, vexing cares of business, or a woman the aggrava.
tions of domestic life, when the family is united, as most families are once in twenty-four hours, the
thing is done. thing is done. After the excitements of the day
the nerves are naturally pretty " the nerves are naturally pretty "high strung," and
an effort is required to prevent their disturbance
upon the upon the slightest po provoation; but each effort
renders its suceessor easier renders its successor easier of accomplishment lineess can be acquired, which nobody sees but to appreciate, admire and desire. The children ac-
quire it in youth and are quire it in youth and are saved the subsequent
efforts at self-control, while the neighbors are soft ened by contact with it, and the result is what we
all should seek-"Happiness at Home."

## Mind and Health.

The mental condition has far more influence upon
the bodily health than is generally supposed. It the bodily health than is generally supposed. It
is no doubt true that ailments of the body carse depressing and morbid conditions of the body cand; but
it is no less true that sorrown motions produe that sorrowful and disagreeable nced by them, would be in persons who, uninflued. 4 Not even produced the functions are disorderportance of this fact. motion nervous currents, which stmotions set in activity; while part of the system into healthful and brooding over present sorrowtment of feeling, epress all the vital forces. To be phast mistakes one must, in general, be happy. The reverse is
not always true; one may be happy and cheerful,
and yet be a constant sufferer in by

## Jan., 1877

## cing

in dancing. I am not
like to know why so severely, while othhars
elieve in at all. That is elieve in at all. That is
them, are more hurtf them, are more hurtful
think there is any harm t a friend's house or your
very one, and know you ou have to pay ; for there o company is too mixiede or time. parties where they phe
3, in fan of 3, in fan of oourse, phay
it a sin For my part
8 every time An bly s every time. And part be.
hat will not exert them. hat will not exert them

## at Home.

philosopher that every agry feeling experienced,
an the face. This can be tion of the countonances th thuers established habits are ace show traces of such cted by them? Nothin ys on another, except the ple, really possessed of to of using ungentle an to the f them when, tonished at themselves sociates. harm, both ole in the family ciriole
$d$ is the proad imitator and particularly those
d noticeable. Here is 0 searv ungentieness a crop of vice and crime of the third and fourt
cok of full appreciation ness at Home." Happi fibility to be happy a every side. of life-by
$t$ be tha appiness is made, nol
olves to thro r a woman the aggrava
in the family a twenty-four hours, th etty "high strung") an vent their disturbanc er of accomplishment ich nobody sees but t
ire. The children ac
saved saved the subsequen
o the neighbors are soft ss the result is what we Health.
far more influence upon
fenerally supposed. It nts of the body cause wful and disagreeable in sound health; or if
functions are disord 1 ways consider the im. veeable emotions set in system into healthful opointment of feeling, Tows or phast mistakes
年 appy. The reverse is or in body.

Jan., 1877
TFIF FARMERS' ADVOOATH.

## saimuie equay's 刃nopatment.

## A Few Words on Cooking

 My Dear Nigces,-Now "I feel a little jealous of Uncle Tom," for he receives a great many morepuzzles for his department than I get recipes for puine, and cooking is an art upon which so much of
mur daily life depends, it is of the highest impor our daily life depends, it is of the highest impor-
tance that it be well performed.
We may not all tance that it be well performed. We may not all
be able to procure the finest kinds of food, but we must all try to make the best of what we can procure. By a certain degree of skill and attention, that it will rival the most expensive dishes, both in savoriness and nutritiousness. Mere scraps, which a careless individual would throw away, ar put to a proper use, and by means of certain aux
liary seasoning are brought to table in a new and hatrractive goise. When a dish has a slovenly ap
pearance both the eye and the appetite are offended pearance both the eye and the appetite are offended,
therefore, it is consistent to prepare food for the table in the mosts tasteful and agreeable manner. One of the chief points to be attended to in cook.
ing is cleanliness. We must have our hair neatly ing is cleand pished and pinned up, as nothing presents a more slovenly appearance than to see the hair hanging regulation is to keep all the saucepans and othe
ntensils perfectly clean. Another essential poin in cooking is attention. We must not expect to put a joint of meat or a turkey to roast and onl
to go back at a certain time and find them read for dinner. No, dear nieces, that kind of inatten tion will surely spoil evervthing we undertake to cook. A good cook is pretty frequent in her visit
to the fire, and perfection in cookking is only a
tained by experience and careful attention.


## 1

 CRND ERRLLAAthe cinderella pastry ornamenter.

| recipes for making pies | gether until the sago is soft. Pour into moulds |
| :--- | :--- | We have sease the mide in various forms. For and set on ice. bologns sausages. common use, the plain crust, without any orna-

mentation, satisfies the appetite as well as if graat
Take equal quantities of bacon, fat and lean

 Yankee notion for crimping and ornamenting pies
and cakes. It is called the Cinderella. The to dry. They may be smoked the same as hams. crimping wheel is made of white and cakes, and the back part forms a star. The above pie shows the wor
done with the Cinderella. G. J. Aspenell \& Co., of Chesshire, Conn.
 invention. We do not know if any
person in Canada has yet procured any of them, as they are called th
Centennial notions. MINNIE MAY.

Recipes.
One quart milk, four eggs, half ounce gelatine. he.other pint of milk, and stir it over the fire in a three tablespoonfuls of sugar, and stir into the milk just before it boils. When it comes to a of sugar. Flavor with vanilla; pour into moulds. Use the next day.
UNTt sUsannah's molasses pie.

Cover a plate with paste as for pumpkin pie
pread over this crust three tablespoonfuls o our, and a spoonful of butter cut in small pieces, the latter is the best). Bake in a moderately heated oven. When nearly done, stir till the in
gredients are well mixed, then let it finish baking

work done by the cinderella, almond icine.
Beat the whites of three eggs to a froth and add
apund of almonds beaten very fine, with a little a pound of almonds beaten very fine, with a little rose-water, and by degrees one pound of whit sugar. to harden, and then add the sugar icing, which should be three-quarters of an inch thick. mother eve's podding. If you would
taught: have a pudding observe what you're Take two pennyworth of eggs when twelve for the groat;
And of the
And of the same fruit that Eve had once chosen, Sill pared and well chopped, at least half a dozen, The crumbs must be grated as small as the dust;
Six ounces of currants from the stones you must sort,
Lest they break out your teeth and spoil all your sport;
Five ounce Some salt and some nutmes will it too sweet ; Three hours let it boil without hurry or flutter,
sugar icing.
Beat the whites of five eggs till they will bear mix weight of an egg, then with a wooden spoon
mix gradually with them two pounds of dried and mix gradually wite pulverized sugar ; wo pounds of together a a few
sitten
minutes ; add a teaspoonful of lemon juice. Spread it all over the cake, covering the almond icing thickly and evenly. Dry slowly in a coo ven. This cake will keep a long time.
batter or yorkshire pudding.
Take a quart of sweet milk and mix in it a large
upful of flour, making the mixture very smooth. Beat four eggs and strain them into the batter. Ad a little salt and mix altogether. Butter your dibh
or tin and pour the batter into it. Place the dish or tin and pour the batter into it. Place the dish
nder roasting meat. It should have a nice browned appearance. to boil a turkey
Boiled Turkey is one of the most delicate and excellent dishes which can be brought to the table, and should be dressed with as much care as possi-
ble. Make a stuffing of chopped suet (or butter) crumbs of bread, chopped parsley, pepper, salt,and nutmeg, which wet with an egg and milk. Put this stuffing into the breast, leaving room for the stuff
ing to swell, after which draw the skin of the breas over the opening and sew it neatly across the back,
by which means when the turkey is brought to the table with the breast uppermost no stitching will
be seen. Place the liver in one wing and the be seen. Place the liver in one wing and the giz-
zard in the other, turning the wing on the back, and
fixi fixing the wings to the sides with a skewer. Cut the legs off at the first joints, and draw out the sinews; then pul cown nd boil for a length of time according to size and age. The sauce used is var ous, as parsley and butter, celery, or oyster sauce
A very delicate saucecan be made of melted butter A very delicate saucecanilk.
boiled maccaroni and milk

An Eastern Lady says:-Have any of you a
spare bedxhamber seldom used, which you would phare bedxhamber seldom used, which you would
like to carpet at little expense? Go to the papercarpet as you can find Having taken it first paper the floor of your bedroom with brown paper, then over this put down your wall paper.
A good way to do this will be to put a good coat of paste upon the width of the roll of paper and the length of the room, and then lay the paper, unroll
ing and smoothing at the same time. When the ing and smoothing at the same time. Whon the dark glue and common furniture varnish being used,
and the floor will be all the better for the darkenand the flo ing these will give it. few rugs by the bedside and toilet table, and you

## Behaving at a Party

The rules for any party are not different from those for behavior at home. You dance and play and make yourself pleasant, just as you do at
home always. This ought to put some of you on your good behavior, for, try as you will, and put on all you can, you can't show anything better in company than your old home everyday manners.
You may set out to be very polite, but unless you are polite every day, the shabby, rough, common style gives all the impression that people can get can put on fine or coarse at pleasure, but like your spine and shoulders, that grow streight or crooked, as you carry yourself all the time. And let this
be a caution, never to have manners too fine for everyday, or to try to be so nice that you can't arry it out. I mean, don't use too fine language, on people, just to make an impression. Won't smile every time you speak to any-one ; it looks silly, and you should allow somebody at home to
make fun of you a good many times to break you of the habit. Smile when there is anything to smile at, but to grin or giggle when you say any
common thing, like "It's a pleasant day," makes
der ommon thing, like "Its a pleal.

## It is Better.

Better to wear a calico dress without trimming, the most elegant silk, catand trimmed in the most Better to live in a log cabin all your own than a brown stone mansion belonging to somebody else.
Better walk forever than run into debt for horse and carriage. Better to gaze upon bare walls than on a bril
*acte ©om's infpartment. Wiilt on the Sand. - by bluza coor. Tis well to woo, 'tis well to wed,
For so the world hath done Sinoe myrtle grrew and donese blew,
And morning brought the But have $a$ oare, ye young and fai, Be eure your pledge young and fai
Be certaith the the Be certain that your love will wear
Beyond the days of youth Beryond the days of youth
For it you give not heart for As well as hane hot for hart for

'Tis well to saver, 'tis well to have

And holl denorgg of of oold,
For oharity is s old.
For hharity is old.
But place not all your
But place not all your hope and trust
In what the deop mine brings
We onnat the live on yine brings
And he who with purer things.
And he who piles up wealth
Wilo ften have to stand
Be
Beeide hisis offer chest, and
'Tis good to speak in kindly guise,
Fair paeoch shourderer we we can;
And love link band the human mind,
But stop not at than to man,
Let deeds with language dwe
The one moo pities stanging dwill;
The merccy that is is warm and and true
or those that elping hand,
But "build upon the sand."
My Dear Nephaws
Year's greeting is to wish yin all Year. It seems but a thort you all a Happy Now
very same thing. Ase we did the passes ome swing. As we grow oldar the time
make it so abstrand and the ever changing events

 Christmas and from New Year to New Year.
Yes, the days seen Yes, the days seemed particularly long just be
fore Christmas, and not unlize many of you now
we mat we hung our stockings up in a conspicaon yow, with groat expectations from Santa Claus ous Christmas Eve. But the holidays are over now presents, your you vaaze hation and anjoyed your visits, your
that thood old the pleasant thins

 was Christmas again."
Hish our frem at the beginning of the year do we
wish our friends $a$ Happy New orear the year do we
wish $i t$ is, but if it it is measant
make any one happy. We must foll it does not
Words by deeds if we would have murt follow wish to come
to parss
We wished
Wess. wished you a Happy New Year, and shall
try to contribute to try to contribute to your happyinear, and and shal
column.
Theugh we have not the rog seeing many of you, we can hear from one anothe
once a month.

## Prize Puzzles.

The prize offered in last issene has been gained
by Miss $V$. $S$. McCollum.
 future numbers. Some have some of them in Which have appeareod eberave in sent good puzzles. the attempats, we compete. As an appeci, hatione
petitor a a small pree decided to to send each competitor a small haveseceided to send each com
Chey have been mailed for a New Year's gift


1-hiddey birds.
I went bird-nesting one time and took the eggs
of the following birds:

1. To steal and a preposition.
2. Aliquit, a a ersmonal pmoll horse.

What boyss are fond of da $a$ vowel vis.

2-ntimaroal mimena.


My whole were the dying words of a poot.
E. ELuiort.

$$
\begin{aligned}
& \text { 3-xitana. } \\
& \text { mall }
\end{aligned}
$$

My first is large, small, and thick and thin, And my ontside in gheneral shows what's within ;
Its outaide in colors outnal mbers all Itso outid it in colors outnumbers all soenen,
And yet it is within every one's means The yich and the poor, the Church and the State,
The schoolroom, the bet The eschoolroom, the bench, and rooms mall and The echolar, the dunoe, all have me in lore,
But the dunco often dean Yet who dunco often deems me avery great
Both firste nad herm asi in second Hie?
 Then we may eseen as in much abused.
My whole may be seen in then My whole may be seen in the room or hall :
Now, what are the words the


5-CROSS-word ENIGMA. My first is in monse, but not in rat My frecond in monse, but not in rat ; My third is is in ring, but not in in , bat ;
My fourth is in in stockitg not in knock $M y$ fourth is in stockinin, but not in in sock

 My eighth is not in bow, but it is in in gun;
My ninht is in in hhite, but not in brown;
My whole is then
Whole is the name of a Scottish town.
KhanA TuRNER.


12-Take that which when we possess we no pleasure
can taste,
And the initial of what we too frequently waste ;
These joined together will quickly declare
These joined together will quickly declare
What ruins the health of many a fair. T. M. T.
13-To a weapon much used by the sly archer
A part of the face must be join'd
Which done with much ease, unless you are stupid,
A town's name of note you will find 14-enigma.
A word of two syllables will expres
Two letters more make a syllable le
And a vast addition of distress. 15-eniama.
All civilized nations through the wide world Most useful pronounce me to be ; The high and the low, the rich and the poor,
Oh what would they be without In castle and hovel alike I am foud In castle and hovel alike $\mathbf{I}$ am found,
Even now your eyes I'm before If you glance 'round your room, I' there meet your $\stackrel{\text { gaze, }}{\text { In }}$ one form at least (2), perhaps more. I am worn by the ladies and gentlemen too; With my face clean and smooth,
m very much
By those known as "Knights of the pen." (4) I may at your window hang gracefully down, (5) In summer the place of a fire I take, (7) In summer the place of a fire I take, (7)
Or be seen in some fair lady's hand. (8) And now, in conclusion, pray take my advice;
I'm never used up, bear in mind For a process gone through, I again; reappear,
And as money saved you will find.
V. S. 16- diamond puzzle
1, a consonant ; 2 , a place for repose ; 3 , is seen
in every town ; 4, a messenger; 5 , a cover for in every town ; 4, a messenger ; 5, a cover for
plants ; 6 , what men should all be; 7 , a philan plants; 6 , what men should all be; ; a a philan.
thropist ; 8, a division of Prussia ; 9 an abstract noun ; 10, of divine Houn; 10, of divine
institution:11, acom
plete participle; $12, \mathrm{a}$ instention; 11, acom
plete participle; 12, a
girl's name; 13.2 vow. girl'sname; 13.a vow
el (or a consonant). The above form a
diamond. The centreletters read down.
wards and across will
 ive the name of a

- buried rivers

7-BURIED Rivers,
3. We have made Ell
4. Do nothing rashly
5. Oh, I only paid you three shillings and you 6. He began gesticulating to help him to under-
stand.

8-hiddin frutt

1. The township of Marmora is in the county nice trick. Get mea, Charles, and I will show you 9-RIDDLE
r'm sometimes of copper and sometimes of tin,
Of iron I also Of iron I also am made,
Of anotht Ialways carry within,
or so constantly they tear me I seldom am known

$$
\begin{aligned}
& \text { e or the other alone. } \\
& \text { 10-Enigma. J. H. Cross. }
\end{aligned}
$$

Places in New Brunswick

1. A bag and a colllection of houses.
2. A man's name and a weight.
3. 
4. A man's name and a weight.
5. A liquid and a game of cards.

1-nume Mary Bownan.
I am composed of 21 letters
My $20,17,16,6$ and $4,8,11,19,12,1$, is a pro
My 18, $, 11,15$, is within my $6,2,14,12$,
$16,3,13$ on $7,18=2,17,15,9$.
My whole is the name of
Farmers' Advocate.

Jan., 1877
THIF FARIMFRS' ADVOCATH.

The Shepherd's Darling.
0 Winter, ruthless Winter!
Why is the world so small ? You crowd us all in the valleys-

And if I pass, by any chance, My darling's house a-near, From the little window peer
And if I take my heart in hand, She sits between father and mother And looks down at the floor.
0 Summer, lovely Summer : The nearer we climb to the hill-tops,
The broader on every side,

You stand upon the cliffs, my love, I oall from out the blue, Yet no one hears but you
And if I fold you in my arms, We see o'er all the land abroad,

British Aretic Expedition.
Heroism has not yet become extinct.
It still lives in the
tearts of the British hearts of the British present day as true the when first written that, "Our shipspare
British oak, Hearts of oak our men."
The spirit of nobly nflinching endur ance, were well ex-
empliffert in the Bri-
tish Arctic Expedition, of the scene of hich we now preepresent ong the Dis overy steaming hrough the ice, with in her wake. They were unable to reach
the North Pole, the on, being prevented by an inpenetrable and apparently illimrather mountain on
mountain, piled hrough the untold ages. The expedition, how add much though not ail they have been abl for, to our former knowledge of those hyperborean
regions. Another engraving of Arctic scenes will regions. Another engraving of Arctic scenes will in describing the process of forcing their way through the floes, says
he determined manner in which (when the Alert had become embedded in the ice, which, by her impetus against it, had accumulated round and floating to the surface again in her wake, had help lessly enclosed her abaft the Discovery was handled
in her advancihg to our rescue Having backed in her advancihg to our rescue Having backed some distance astern, for the double purpose of
allowing the debris iee from a formey blow to float away, and for the vessel to attain a distance suffi-
cient for the accumulation of momentum with which cient for the accumulation of momentum with which
to strike a second blow, coming ahead at her utto strike a second blow, coming ahead at her ut-
most speed, she would force her way into the ice,
burying her bows in it as far aft cs the foremast: burying her bows in it as far aft co the foremast:
the commanding officer on the bowprit, carefully
conning the shin conning the ship to an inch, for had the ice not
been struck fairly it would have caused her to carom off it against ourselves, with much havoc to
the two- Frrm the moment of the first impact the to rise three or four feet as she advanced from twelve to twenty feet into the solid floe, and imbed,
ded perself, before the force of the blow was ex-
pended; and as the ship's way was stopped, the
overhanging weight, by settling down, crushed the overhanging weight, by settling down, crushed the
ice dowa still further ahead. Frequently, on these occasions, her jibboom was within tonching dis-
tance of the Alert's boats tance of the Alert's boats! But aftor a l lithle
experiende had been gained, such confidence had experiende had been gained, such confidence had
we in each other that there we in each other, that there was
swerving in any one instance."

## HUMOROUS.

Why is a dog's tail like the heart of a tree Because it is furthest from the bark. The nation that produces the most marriages is the most divoroes is alienation. There is said to be something ill in this life. For instance, if if ${ }^{2}$ man is or bald-
headed his wife can't pull his hair. eaded his wife can't pull his hair.
A negro held a cow while a cross-eyed man was
oing to knock her on the head with an axe. The darkey observing the man's eyes, in some alarm
 self." It is told for a fact that a little flaxen-haired boy of five years old, who had passed the afternoon at
the Boston Art Museum, looking np in his mothers the Boston Art Museum, looking up in his mother's
faee said:-‘If all the mammas when they die turn into, mummies, do all the papas turn into
puppies?" puppies?'
dressed the shopman thus :- "It is my desire to
obtain a pair of circular elastic appendages, capable of being contracted or expanded by means of of oci-
lating burnished steel particles of gold leaf set with Alaska diamonds and which are utilized for retaining in proper posi-
tion the habiliments of the lower extremities innate delicacy forbids me to mention."
A Qurer Wrrvess.-A young man of very
good character hired a horse from a livery-stable to go to a town twenty miles distant. Unfortunately, about half way out the horse was taken ill
and died. The liveryman sued him for the value of the horse, representing that the horse had been killed by fast driving. One of the young man's
or witnesses (rather green, or supposed to boe and
who had a peculiar way of talking very low) was
called who had a peculiar way of talking very lowi was
called to the box, and questioned thus by the plantiff's counsel : ""AAre you acquainted with the "How long have you." been acquainted with him hi",
"About three years." "Well, sir, please tell ", "About three years." "Well, sir, please tell to
the court what kind of a reputation he bears, as
to fast or slow riding on horseback" "WWell to fast or slow riding on horseback." "Well, I
suppose if he was riding with a company of per.
sons who rode suppose it he was riding with a company of per-
sons who rode very fast and he didn't want to be
left behind, he would ride fast too; and if he was left behind, he would ride fast too; and if he weas
riding with a company of persons who rode very riding with a company of persons who rode very
slow, and he did not want
would ride glow too." "Yo ahead alone, he slow, and he did not, want to go ahead alone he
would ride slow too." "You seem very muoh in.
clined to evade answering questions properly,"
said the judge,
much enrag.
ed. "Now, sir


THE ALRRT AND THE DISCoVERY IN THE ICE.

The Firss Lesson in Music.-An Irish gentlehis terms ; the master said he charged two guineas for the first lesson, but only one for as many as he pased afterwards. "Oh, bother the first lesson,"

Said at me! I began as an alderman, and here $I$ am at he top of the tree; and what is my reward? Why, When die, my son will be the greatest rascal in
the city." To this the young hopeful replied: "Yes, dad, when you die-but not till then."
The judge asked an Irish policeman, named
$O^{\prime}$ Connefl, "When did you see your sister ?" policeman, replied, "The last time I saw her, my lord, was about eight months ago, when she
called at my house, and I was out." The judge : "Then you did not see her on that occasion ?"
The Irishman answered, "No, my lord, I wasn't there.
"Jake," said the blushing damsel to a lover that if your feet are big; I love you just as much." size of my own feet, but I wish your dad's were little smaller; I should feel more confident, you know, about staying.
A"Pair of Garters.-A very modest young
New York lady who wanted a pair of garters ad.
so he prepared an affidavit for contin looks, wing forth the absence in Alabama of a principle witness. He read it in a whisper to the principle
who, shaking his head said, "Squire, I can"t who, shaking his head said, "Squire, I can't swar
in that dockymint." "Why ?" "Kase hit hain't true." The lawyer exploded loud enough to be
heard throughout the room. "Whase heard throughout the room. "What! forge a note and steal a hoss, an' can't swear ${ }^{\text {a }}$ a
leave such a confounded fool to his fate."
Some years ago a gentleman in Liverpool, who
had the misfortune to lose his nose, was followed by an Irish beggarwoman and who wape followed
ing:-"Heaven preserve velaim. ing :- "Heaven preserve your honor's eyesight!"
The gentleman was at last irritated by her importunity, and said, "Why do you wish my eyesight
 "but it will be ao sad thing if it it does, for, you will
have nothing to rest your spectacles on," $\longrightarrow \longrightarrow$
The dreams of love, to continue true, must not take too visible a form, nor enter into a too conse-
cutive history; they must float iu a misty distance the soul in which they hover can a misty distance,
of the longer think it forgets itself in th; it inhabits another world; troubles it, and sees its well-loved visions rise
mingle, come and go, mingle, come and go, as in summer we see the bees
on a hillslope flotter in a haze of lige light, and circle
round and round the flowers - Taine

The 3 gome ©ircle.

## The Fatal Test.

An aged man, my fellow-traveller, related to me
the following story, as we sat in the warm chimney corner of a comfortable country tavern, afte a day's travel in a stage-coach. His father's time with such results as are here narrated:-
The snow was falling thick around a small house
at some distance from the little village of -, in at some distance from the little village of-1, in
Massachusetts, on a Christmas Eve seventy eighty years ago. The widow within did not give husband, an
There came a knock, however, and she answered it speedily, with an exclamatio
an occurrence on such a night.
A youth stood without, who asked permission to
warm himself, as he felt the death-sleep creepin warm himself, as he feth the death-sleep creeping
over him. Instantly the widow's elde $t$ son drew him into the house, and taking the reins of h to the comforts of the beast. The eldest danghter prepared some hot coffee, and the mother hersel that kindness could suggest was done for him; and
when he had become in some measure comfortable When he had become in some measure comfortable,
questions as to his inducements to travel were put
with an earnest simplicity which rather warmed with an earnest simplicity
his heart than gave offence.
He had been several times much moved by the tenderness shown him; and he did not hesitate
tell them frankly about his affairs. He was a ver handsome stripling; his name was Arthur Vernon the only son of a rich widow. He was now on his
way to New Hampshire, taking a large sum of money from his mother in Boston to his sunt, who
was left in debt by the sudden death of her band. The stage routes were impassable from th gent, to perform the journey on horseback, the gent, to perform the journey on
the most common mode of travel.
He had stopped at the village tavern at
having determined to spend the night there; but as he imprudently mentioned the money he carried
before several travellere in the bar-room, the land lord privately advised, even urged, his riding on fast as possible, that he might not be obliged to
travel the next day with those who had heard his trasel the next day with those who had heard his
rash words; and that while they supposed him asleep, he might be on his way far from them and
possible danger. Arthur was still cold and his possible danger. Arthur was still cold and his
horse fatigued; but the landlord supplied him with
another and sped him onward. another and sped him onward.
The deep snow of the road was entirely untrod-
den; therefore he had ridden slowly and become den; therefore he had ridden slowly and become
chilled. Thinking it better to risk the danger of delay and of buing overtaken in the morning than to beoome sleepy and fall from his horse to certain
death by the wayside, he had concluded to stop and warm himself by thic fireside before he enter. ed the torest through which the road now led. The
little family had listened breathlessly, and for some tame the silence was ureathlessly, and for until Mary
somen, unt
said with a shudder-"It's a torrible road. Peosome time the silence was anbroken, until Meo-
said, with a shudder-"It's a horrible road. Peo
ple say-" ple say
""Hush, dear," said her mother; "Don't repeat
those idle tales. No sensible person, sych as this those idle tales. No sensible person, sych as this
young man, would believe them, to be sure, but
when he is riding through the woods alone, they may seem fearful to him."
Arthur asked for pen and paper, to write a few the letter to the village post office.
"I will not lose what is perhaps my
of letting her hear from me," he said.
When he had finished the note he. continuing his journey, and they did not urge him very much to remain, trusting much to the wis.
dom of the landlord. Charles Morrison brought his horse, and aiter a farewell, almost as affectionate and sach arles haceompanying him to point out
parted, Chatlo
the entrance to the wood, and Mary calling after the entrance to the
him to "ride fast."
He said, just before leaving the door, "Oh, how
unwilling I am to leave you! But go I must." When Charles returned they talked until bedtime of their admiration of the stranger and theer
pity for him. Mary's heart bled for the poor youth, pity for him. Mary's heart bled for the poor youth,
hastening onward through the winter's night, hastening onward throug,
haunted by a dreadful fear.

Early the next morning, Charles Morrison stop-
ped on his way to schnol to inquire of the landlord
conceerting the stranger who had so deeply interconcerwing the stranger who had so deeply inter-
ested them. He learned joyfully that the horse which Arthur had promised to leave at the next which Arthur had promised the and brought home,
tavern, had been found there
thus making it almost certain that he had escaped thus making it almost certain
danger, at least for that night.
No one at thie tavern, however, had seen the
youth, but it was probable he had feared to enter and, after putting the horse in the stable, had ought shelter at some hospitable farmer's. He
would be likely to continue to do so, and for a day or so avoid the inns.
The landlord, who feared losing custom if he disVernon was a fool who could not kore that young between his teeth, but must needs hetray the
the
friend who, out of prudence for him, had risked friend who, out of prudence for him, had risked geting inco none of his guestss of any design upon
suspectenng man's money, but, thought it best to the young man's money, but, thought it best to
send him on, as he himself had led to his impradently mentioning his business before strangers questioning him, he confessed that he felt uneasy when he saw an ill-looking man glaring at young away, he took occasion to say, at the supper-table,
that the poor fellow had fallen asleep on his bed that the poor fellow had fallen asleep on his bed
without undressing, "just for a blind." He no without undressing, "just for, a blind." He no
ticed that the suspected man's attention was at-
tracted. Soon after he had missed him, and learntracted. Soon after he had missed him, and learn-
ed that he had been to the stables, and had been told by the hostler of Arthur's departure. When the fellow returned to the bar-room, he said he
had been so refreshed by the supper and something warm that he believed he would ride on.
"I shook in my shoes, Charley," the landlord
concluded; "but I should have been' most too smart if I'd meddled, for it's all turned out all right. That man stopped quietly all night at the next
Charles ran home light-hearted with the news,
there and Charles ran home lig.
and Mary sang, for joy.
"If he only don't dog him
him yet," muttered her brother.
A few
Vernon inquiries about a young stranger called Arthu Vernon, who had left home on a journey into the
interior of New Hampshire, and of whom the las news came from thisshire, and of whom the las
him no further, and were obliged could trace search, to return to his sorrowing mother without any clue to the mystery of her son's fate. Neither
could they discover anything about the suspected sumad they discover any thing about the suspected
villages, on the that road to had Maine gone through several The on the road to Maine.
The landlord really grieved over the poor youth.
He feared that he had lost his way and perished with cold. The widow's family would not believe that he could meet a fate so hard, and thought him
ill in some out-of-the-way place. The winter passed away, and the matter wa The deep sno
The deep snows of a New England winter lin
gered till late in the spring in the wood near Widow
Morrison's house Morrison's house. It was totally unfrequented,
as it was believed in those superstites as it was believed in those superstitious times to
be haunted by a murdered woman, whose cry o be haunted by a murdered woman, whose cry
dying agony still resounded through its depths. Charles, however, was free from fear, and
often roamed through it in search of game. He was out with his gun one day in spring, when,
attracted by the screaming, hovering crows approached a wild, rocky spot, and saw, gleamin among the loose stones, long, golden hair. He be
lieved he recognized it. Another glance and lieved he recognized it. Another glance, and he
turned sickened and sorrow-stricken to haste to
the village and direct the proper persons to the the vill
spot.
A rifled pocket-book, with the name of Arthur the body. A fractured skull and a hatchet lyin beside him made it almost certain that he had been
murdered. Yes, murdered almost within murdered. Yes, murdered almost within sound o
a pistol-shot from the widow's cottage a pistol-shot from the widow's cottage, so tha
death had been waiting for him just outside it
hospitable doon hospitable door. Charles and Mary remembered how his last words had been of his unwillingness
to leave them, as if his instincts told him for what he was exchanging their warm shelter
Many years passed. Charles Morrison became
the schoolmaster in --, Mary was married to the young orthodox minister, and was married to the thallord still
welcomed travellers. It was November. Again
the snow fell in driving waves, and pattered like hail against the windows of the little cottage, where
the enlarged family of Morrisons dwelt in love to. the enla
gether.
There came a knock at the door, and the widow, sayng it reminded her of poor Arthur's knock, sent one of her sons to open the door. The hostler
from the tavern said he wished to see Charles im from the tavern said he wished to see Charles im-
mediately. His coat and hat were on in a moment mediately. His coat and hat were on in a moment,
and he followed the messenger as rapidly as possi-
ble. ble. The landlord was awaiting him in a private room,
and told him that the man whom he could not and told him that the man whom he could not
help suspecting to be Arthur's murderer had arhelp suspecting to be Arthur's murderer had ar-
rived, and taken a room for the night. He con-
fided to Charles his olan for his den fided to Charles his plan for his detention by an
old superstitious test. He felt so sure that the old superstitious test. He felt so sure that the
murderer was now in his house that he had sent for Charles and several other men of the village witness the conviction, and secure the guilty.
Supper was not yet ready, and though Supper was not yet ready, and though the
stranger was very hungry and impatient, the landstranger was very hungry and impatient, the land-
lord hoped to detain it long enough for the others
to arrive to arrive.
As each
As each came, he was informed of the suspicions the landlord had formed-and then they dropped
into the bar-room as if accidentally. All enter-
tained tained full belief in the efficacy of the means pro-
posed, though Charles in a different posed, though Charles in a different manner from
the others. When he entered the room he stamped the snow from his boots, and drew near the blazing wood fire, beside which sat a stout, grizzled
man, of dark and savage aspect, gloomily playing man, of dark
with the tongs.
"A cold, stormy night," said Charles.
"Ay," answered the traveller.
"And one to make a man fear evil things, have
strange fancies, and look on the gloomy side." "More eause for shutting up about it!" was the rly reply
When all were assembled and drawn around the
fire, Charles led the conversation to a natural topic on such a night, when the driving storm without seemed Time. There were those present who still believed in them, and this led by apparently natural transition to ghosts and to haunted places, among which
Morrisons' woods were mentioned. The sullen stranger seemed displeased with this turn in the conversation, and for the first time opened his lips to protest with an oath his disbelief in ghosts. many people, about here to agree with you in your
disbelief. Many a person who has been along the disbelief. Many a person who has been along the
wood-road after dark has heard what they dare not wood-road after dark has heard what they diare no believe. But $I$ have not heard it, and those who
have are hera to tell for themselves." "
"No; let's be done talking about it,"" said the
stranger to the old, Justice, who was giving a preparatory "ahem."
He would not be silenced, and began in a weak, bour Wright goes home heard it, and since neighcompany, I don't mind telling you about it, though think it no shame to be prudent.'
"About what?" said the stranger, fiercely. night, and I was do come through the wood that ei ery sound, but I was not more than half-way across when it came, and I tr
was the most dreadful cry.
"Who cried? Did you say anyone cried or
groaned?" broke in the greatly perturbed stranger. "I don't say who, but it was a long moan or Ugh! it makes me shudder now!'
Charles narrowly watched the stranger. For a moment he seemed almost paralyzed with dread.
But he rallied, shook himself slightly, oosen the fetters of fear, and asked, sneeringly, if that did not happen long ago in old times, when "No",
"No," said the Justice; "I heard it myself,
tranger, and not three months ago., Gloom again sunk upon his brow. mained silent. The conversation was resumed and the topic still discussed, the stranger seeming to "Heaven is
"Heaven is just," said Charles, "and that is
why murders wiil out. The very stones would cry why murders wiil out. The very stones would cry
out, or perhaps the bones of the murdered testify,
os they really do according to out, or perhaps the bones of the murdered testify,
as they really do according to the belief of the
people here, when the murderer touches them."
"How so ?" asked a traveller who was present. "It is an old usage," replied Charles, disregard make a knife and fork handle of a bone of the murdered man, and to place them at every strange
guest's plate at the public inn. If the murdere ghoostd take them up, they will adhere to his hands and so convict him. Now our landlord here ha such a knife and fork. I have been looking a
them to-night-they have a skull and cross-bone traced on
"But they may," said the Justice ; "for I have found true."
"Well, I've no need to be afraid to tonch them,
thank heaven !" said the traveller who had asked thank heaven
The gloomy stranger's face was hidden by his "Supper is ready," screamed a shrill voice fre "Supper is ready," screamed a shrill voice from
the kitchen. All received a hearty invitation from the landlord to partake of it, and all rose, but the stranger fell back to his seat again, for his knees refused to support him. He stooped to pick up his
handkerchief, and the others passed on to the table before him. It would have been regarded undergoe the trial, being guilty, had he refused to
come to the table; but he did not, he soon folcome to the table; but he did not, h
lowed them, and took the vacant seat.

His hard old features were pale and ghastly. His eyes rested with horrid fear on his knive and fork. They were common-looking enough-he saw
no death's head. His color came back, and he looked up boldly, but as his glance travelled a around
it met every eye keenly bent upon him, and there it met every eye keenly bent upon him, and there
was a dread, awful silence.
He paled slowly be. wore the fixed and suspicious gaze, but turning his eyes slowly away from its fascination, he again looked at the knife and fork narrowly.
the fatal sign, and he fell back insensible.
"It is the judgment of Providence,", said the
landlord, solemnly; and the Justice said, "Amen !"
"It is the power of conscience," said Charles, triumphantly.
It began, however, to some to sem not the legi-
timate thing. They wished to see the knife and fork adhere, and these soon busied themselves in endeavoring to revive the senseless man. They
partially succeeded; a strong shudder passed through the hage, stout frame, and he opened his eyes. After vacantly staring, for some minutes, he
suddenly started up, looked with bold defi. suddenly started up, looked with bold defiance twiched convulsi.
force of his will.
Pressing his hand for a moment over his ungrvernable fatures, he burst into a mockring laugh,
and seized the fatal tests. Instantly his hands and seized the fatal tests. Instantly his hands
closed upon them, and he was thrown into fright-
ful convultions.
It was not over for an hour. Even after death the rigid hands coold not be made to unclosese, and
he was buried with those tokens of his guilt still he was buried w
grasped tightly.
The verdict of the coroner's jury was "Visita-
tion of God." In our day it would probably have tion of
been " Gpilepsy."

When supper is served, a boy will look out for some little girl to wait on, and bring her what she
asks for, a plate of oysters or a cup of beef tea which is fashionable for parties now, or some cold the grapes and candy afterward, if thereamse anc such things. Bat a gentleman does not take his supper
till he sees that whoever he waits on has all she wants first. At a sit-down supper people look out for themselves more. Don't try to eat all the good things you can, and don't carry off anything in and what is more, don't speak of it if you see anyone elseg greedy. Remember the good old rabbi
who was wakened by one of his twelve sons who was wakened by one of his twelve sons say.
ing, "Behold, my eleven brethren lie sleeping, and I am the only one who wakens to praise and pray. "Son," said the wise father, "you had better be
asleep, too, than wake to censure your brothers," asleep, too, than wake to censure your brothers.'
No fault can be as bad as the feeiing which is quick to see and speak of other people's wrong.-
Wide Awake.

Faint Heart Never Won Fair Lady. A charade that may be acted by some of the young mem-

## CHARAOTERS.

Mrs. Osborne, a young widow.
Colonerl Hectoe ${ }^{\text {O'LeARY, }}$, $\}$ her suitors.
Mr. Lindsar,

## PROPERTIES

Furniture for a Parlor. Table, Books, Bell, etc. Mrs. Osborne.-Another bouquet, and with it
this time a oopy of verses. This is the fourth this time a oopy of verses. This is the foarth
bouquet within two days, and I strongly suspec bouquet giver is a handsome young officer who so gallantly stopped my horse as he was going towar
the river, rather faster than his mistress's inclina tions warranted. What a fascinating bow h I am thinking of him again, and at such a time when I am expecting Mr. Lindsay, the yonn propose to me. I will accept him. He is young so am I. Handsome! I, too, or my glass deceives me. Rich, and I am not poor. He is a fool, and
I am not, so I will rule. My dear departed O s. I an not, so owily rule. My dear departed Os.
borne was an old tyrant, and when I marry again,
I am determined to be the head of the house. I am determined to be the head of the house Lindsay is not so handsome as the young officer
Bah! am thinking of him again. He fairl haunts me. [Takes the verses from bouquat, a and
puts them in her bosom. Bell rings.] Ah l here puts them in her bosom. Bell rings.] Ah ! her
comes my future lord and master ! Enter Colonrl O'Leary.
[Aside]. The young officer!
[Aside.] The young officer !
Colonel. Madam, 4 I have dared, uninvited, to
intrude intrude myself upon [the fotice of one, whose
beauty has Meauty has - Oeborne, (haughtily.) Enough, sir ! In
Mren trusion is the proper word, and as you find it is so,
you will, of course, instantly free me from it. Colonel. Nay, I have dared so much, that oannot consent
shot is fired.
Mrs Osbor
Mrs. Osborne. Sir, this is unwarrantable. A
stranger stranger - Colonel, (pointing to bouquet.) Madam, yo hold my card.
Mrs. Osborne, (tossing it aside.) So, you are the person who pesters me with flowers, andColonel (eagerly ) Ton
Mrs. Osborne, (aside.) What a goose I am Aloud.] You will allow me to return them, sir. Colonel. You are cruel. Never mind.
day you'll read, cherish, nay, love them. day you'll read, cherish, nay, love them.
Mrs. Osborne. Sir! Colonel, (handing her a chair.) Pray be sea
madam. It must fatigue you to stand so long. madam. It must fatigue you to stand so long.
Mrs. Osborne, (aside, reireshing. [Aloud.] Mr.-
Colonel.
Colonel Hector O'Leary, madam, at your service.
Mrs . Osb. Mrs. Osborne. Colonel O'Leary, I have already
stated that you intrude. Will you force me to stated that you intrude. Will you force me to
dismiss you in a more decided?manner?
up a bell from thes up a bell from the table.
Colonel. Madam
where his Madam, a gentleman never ramain you will allow me just five minutes a will then re
lease you, neter lease you, never to intrude again. [A side.] Now,
old fellow, your time is limited, be awake; she, old fellow, your time is limited, be awake ; she'
worth the trouble. By Jupiter, what a perfec worth the trouble. By Jupiter, what a perfect
hand that is upon the bell, and what a queenly air
she has! she has !
Mrs. Osb
Mrs. Osborne. Be it so, then. Five minutes.
[Places her watch upon the table.] errand.
Colonel, Colonel, (also seating himself.) If [Sits down ny verses, you
sumes my heart.
Mrs. Osborne about a flame. [Looks round.] Wher are they ? Mrs. Osborne, not seen them. Oh, I remember. I have no pocket, so I slipped Oh, I rememb
them in here.
Mrs , (aside.) Next her heart, by Cupid! Mrs. Osborne. Now, let us see what it is. Oh
by the way, here is a line about black eyes. Mine are blue.
Colonel.
Colonel. Blue?
Mrs. Osborne. Yes. Can't you see that?
而

Colonel, (rising, and standing directly facing
her.) Are you sure? Mrs. Osborne, looking up at him.) Yes; see! Colonel, (bending over her.) I see such a flood
of light, with two dazzling meteors in the midst, that I am bewildered, and cannot judge of color. Mrs. Osborne. Flatterer ! [Looks down. Colonel. Nay, now you veil them, and I am in the dark again.
Mrs. Osborne, (looking again at the verses.)
There is another error.
Colonel, (kneeling, so as to bring his face on a
(evel with hers, and looking also at the paper.)
Where? Mrs. Osborne, (pointing to a line.) Here ! apeak of my image haunting you, and the agony of
seeing me and not being abbe to pour out your-your-What is this word?
Colonel. Love
Mrs. Osborne.
false it is-love. Now thent. Nou never see me. Colonel. There's not a day when from my heart gotten. A face so fair, that were the queen of beauty, Venus, to rise again from the sea, she'd
throw herself upon its waves, so envious Mrs. Osborne, Ah, I understand ; see me in Colonel. Mrs. Osborne. Clara!
Mrs. Osborne. Why, who told you my name
was Clara? Colonel. Ah, love is a keen detector. I took [Rises.
Mrs. O'Leary. Mrs. Osborne. Future Mrs. o'Leary ? Colonel. Certainly ! You do not imagine I sent bouquets, saved you from drowning, or at
least a wet habit, and finally found my way into
your presence, without some hope of reward Mrs. Osborne. This is the most unparalleled ave ever- 1 ever heard of. Colnel OLeary, if Colonel. Oh no, you never have, but you will. I do ont wish to hurry you. I allluwed a whole
week for courtship, and then-ClaraMrs cork courtship, and then-ClaraMrs. Osborne. This is too much. I blame my-
self severely for having permitted your stay for so seln severely for having permited your stay for so
long a time. I have the honor, sir, to wish you a
very good morning!
[Attempts to pass him. very good morning! Attempts to pass him.
Colonel, (standing before her.) Not so. Do not leavs me in anger. Forgive me, believeing it was
nnly my deep, earnest love that Mrs. Osborne. Enough, sir !
Colonel. Well you silence even my excuse? My
passion is my only apology. If you will not heed passion is my only apology. If you will not heed
that, I am indeed, despairing. Mrs. Osborne. Allow me, if you please, to Colonel. When may I call again?
Mrs. Mrs. Osborne. (amazed.) Call again ? Mrs. Osborne, To-day? Mrs. Osborne. To-day?
Celonel. So soon. Thanks ! I will be punc.
[Sual.
[Seizes her hand, kisses it, and exit. Mrs. Osborne. Did ever a poor woman have such a suitor? To-day ! No, that will never do.
I will tell the servants not to admit him.
[Goes I will tell the
toward door.

Enter Mr. Lindsay.
Mr. Liedsay. G-o.o.d morning. [Bows, and
drops his hat ;in attempting to pick it up, and drops his hat; in attempting to pick it up, drops
his cane tries to get that, and steps into his hat;
finally leaves both, and sits down.] Mrs, Osborne (om sins lown.]
Mrs. osborne, (concealing a smile.) Good morn.
ing, Mr. Lindsay. [Silence for a moment.] Fine
weather Weather, Mr. Lindsay.
Mr. Lindsay. V.e-r-y-very fine. I-I Mr. Lindsay.
V.e-r- $\mathbf{y}$-very fine.
[Stops, embarrassed.
IMrs. Osborne. We have had such lovely
weather, lately. I have enjoyed my rides on
horseback very much. Do you ride, Mr. Lindsay? Mr. Lindsay. I-yes-when-you know-if the on a gentle horse.-I-I - [Stops again; thes
to pick up his cane, almost loses his balance, and sits very erect.]
Mrs. Osborne. It is a delightful recreation. Mrs. 'Osborne. It is a delightful recreaticn.
[Silence again' Mr. Lindsay. I call-to-to-ask-that-if-
Mrs. Osborne, (looking at him, with grave atten-
tion.) Yes.

Mr. Lindsay. To see-if-you-I-or-_ Mrs. Osborne, (aside.). Why don't he speak
out? Will you have me? That's what he wants out.
to say.
Mr. Li
Mr. Lindsay. To see if-you-had seen anything of the gloves I left her yesterday. [Aside. Mrs. Osborne. Your gloves ? No.
Mr. Lindsay, Oh, I fourd them in my hat. II (ane oo-day-to see--) Oh, why don't he speal Mrs. Osborne, (aside.) Oh, why don't he speak?
It wllil be so apropos. I want a protector against It wlll be so apropos. I want a protector against 1 tell him I am engaged.
Mr. Lindsay. You know, Mrs.

- must-have-seen-that-that.
Mrs. Osborne, (aside.) Oh, he will set me
Mrs.
frantic! : Osborne, (asidend.]
seen.
Mr. Lindsay.
I am glad of it.
Mrs. Osborne, (aside.) Will he stop there?
Mr. Lindsay. If I-may - hope-that-that---
[Stoops for his cane, loses his balance, and comes
down upon his knees, in front of Mrs. Osborne.]
Mrs. Osborne. Don't prostrate yourself
Mr. Lindsay, (rising, with his hat and (aughs, -I-I-wish you good morning!
[Exit. Mrs. Osborne. Was there ever such an idiot!
"I-I-you-you." I
almost prefer the officer's style. [Goes forward and sits down, facing

Enter Colonel O'Leary, back. [Mrs. Osborne
does not see him.] He is very handsome. His eyes are splendid, I noticed, when he looked into mine
Colonel. It must be myself.
Mrs. Osborne. And what a pretty compliment
he made. He would woo in a different style from my friend Lindsay. "Really, his impudence is almost fascinating. "I allowed him a whole week
for courtship!"
Positively, 1 should not be surfor courtship!" Positively, 1 should not be sur-
prised to see him kneeling at my feet at this moprised

Mrs. Osborne. Oh no, that is too lowly a posiher hand.] Here! Next time he will probably clasp my waist, and kiss my cheek. [Rises. Coionel springs forward, throws his arm around her,
and attempts to kiss her ; she draws back.] Sir Colonel. You said to-day! so I came I live an hour away from you, having once enjoyed your dear society.
Mrs. Osborne, (haughtily). Colonel O'Leary ! Colonel. Will you not say Hector? I shall lips have syllabled it.
Mrs. Osborne. Will you drive me, sir, to call-
ing a servant for protection?
[Takes up the bell. Colonel. Replace it, madam. I go! But if you ever want ondor a protector, nnay, a servant reeall. [Going. Suddenly returning.] One little favor, before we part, perhaps to meet no more.
Will you say Hector? Will you say Hector? Mrs. Osb ?
say Hector?
Colonel. Thank you for complying.
Mrs. Osborne. Complying?
Colonel. Did you not say. it! [Takes a ring
from his finger.] I have something here to show you.
Mrs. Osborne. Will you leave me, sir?
Colonel, (coming nearer).
One momer had this engraved for my betrothal ring. You see words are entwined-Clara and Hector.
[Takes her hand and slips the ring upon her finger.] It fits! Mrs. Osborne, [trying to take it off]. Sir, this
insolence- [Aside.] It will not come off.
Colonel. You see the rin its giver. Mrs. Osborne, I love you! Will you be my wife Mrs. Osborne, [laughing]. Your wif Mrs. Osborne, [laughing]. Your wife!
Colonel. Will you state your objection will overcome them. There is plenty of time. A
whole week. Mrs. Osborne. Why, it would take a week to
name my objections.

Colonel. Then we have no time to lose. [Offers
her a chair.] Pray be seated. Mrs. Osborne, [aside]. I will crush his preten[Sits down. Mrs. Osborne, In the first place, you are an utter stranger.
Colonel. An utter stra
ring, and call me Hector?
Mrent Mrs. Osborne. I know nothing of you, save
your name. Colonel.
Colonel. Yet I am the brother of your dear
friend, Mrs. Marshall. You will own my family
Mrs. Osborne. Y-e-e-8!
Colonel. I have property independent of my
profession ; quite enough to live on. I tune-honter, you will grant.
Mrs. Osberne. 1-really, sir-
Colonel. You have already said that $I$ am hand
some and fascinating; I love you devotedly some and fascinating; I love you devotedly; my
superior officer will give me a good character superior ofticer will give
What more can you ask?
Mri. Osborne
Mri. Osborne. Sir, I-
Colonel. I love you! First, from report; for
sister's lettera were filled with your praises, and sister s lettere were filled with your praises, and
hastened home, determined to win you. I saw
you you-need I say how far the reality exceeded my
wildest hopes? Your beauty enchanted wit enthralled me! If you are obdurate, my heart is broken. I have proffered my suit, and I await your answer.
appear, I would not force my love impudent as $\frac{\mathrm{m}}{\mathrm{m}}{ }_{\text {min }}$
can I say? Colonel, [aside]. She hesitates! She's lost! Mrs. Osborne.
of my dear friend
Colonel. No, no! If you will not be graciou in my sister's reflection
Mrs. Osborne. Well, then, since you will have house.
[Extends her haild. Colonel, [seizing it]. And heart?
Mrs. Osborne. I yield-to your
dence! friends hel. Dearest:- But we will spare ou wooing ard Lindsay's reminds them of any pro Mrs. Osborne. Proverb?
Colonel. Yes ; do you not know it?
Mrs Osborne. I do not recall any
Mrs Osborne. I do not recall any now

| cillonel. Then our friends here $\begin{array}{l}\text { [to audience] } \\ \text { [Curtain falls }\end{array}$ |
| :--- |

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## Ontario Agricultural College.

report of experiments in perding pias. Mr. William Brown, the farm manager, has
kindly forwarded to us the full report of the As it has arrived just as we go to proae we canno give the full statistics, as it would delay this issue.
The results have been carefully noted by Mr. E. H. The results have been carefully
Carpenter, one of the students.
The following is the result
ments, conducted with much care and accuracy a the Ontanio School of Agriculture, for the purpose assertaining which of the two feeds, pease or
corn, it is more profitable to feed, and also to find out, whether it is most profitable to feed these two grains raw or
pease, boiled.
For this purpose, five comfortable pens were se part, each bearing a large numbered ticket, so ae to avoid any mistake in feeding.
Pens Nos. 1, 2, 3 and 4 had each two pigs in
them, pen No. 5 having but one. We omit the gures for future reference.
It was demonstrated that pease fed in their raw
tate again take the lead, with soaked and raw corn not far behind. And now, in summing up boiling pease, , osaking pease er soaking corn is but
waste of time and money. It is well to observe hat although pease cost a few cents more than raw state, makes many more pounds of flesh than bushel of the latter fed in its raw state.
Errata. - The cuts of fasteninge on page should have been placed the reverse side up.


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[^0]:    

[^1]:    unter no evirumstances, l, oc cruaviel in tin the sump

