 FOUNDED 1866.
voL. XXI.
LONDON, ONT., OCTOBER, 1886.
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THE FARMER'S ADVOCATE \& HOME MAGAZIIE
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THE FARMER'S ADVOCATR

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Our Monthly Prize Essays.
CONDITIONS OF COMPETTTION. CONDTTIONS OF COMPETTITSN.

1.     - No award will be made unless one essay at
least cones ut to the standard for publication. 2.- It is not necessary for essayists to agree with
our policy, so long as they, give sound reasons for differing from us. u .
2. -Thll be judged by the ideas, arga-
ments. conciseness and conformity with the subiect, ments. conciseness and conformity with the subiect,
mand not by the erammar, runctation or speling,
and obiect being to encourage farmers who have en
 4. Shauld one or more essays, in addition to the
of recelving the first prize, roesenta d diferent view
of the euestion. a second, prize will be awarded, the of the question, a second, prize will be awarded, the
sum being deoided hy orrselves in each case. and
the essay will appear in the same or in a succeedthe essay
ing issue.

A prize of $\$ 5.00$ will be given for the best original essay on How can Greater Economy be Exercised in the Use of Fences? Essays to be handed in not later than Oct. 15.
A prize of $\$ 5.00$ will be given for the best original essay on the following subject: Cax
Mixed Farming lee so Changed that more than Mixed Farmy Amount of Work may be Profit the Ordinary Amount of Work may be Prof
ally Done during the Winter Months? to be handed in not later than Nov. 15th. Our prize of $\$ 5.00$, offered for the best original essay on How to Regulate Fall Work on the Farm most Proftably, has been awarded
to S. A Laidman, Binbrook, Ont. The essay appears in this issue.

## Reliable Agents Wanted

Good reliable agents wanted in every county in Cabada to canvass for the Farmer's Advo-
cate and Home Magazine. Subscribers or parties well a aquainted with the paper pre-
ferred. Liberal terms offered to those willing ferred. Liberal terms offered of former mployto work. State particulars
ment, and address this office,
$\qquad$ Aditorial.

## On the Wing.

papm stock in great britain
We visited the Agrioultural Exhibition in Edinburgh. The Scotchmen there consider the xxhibit of Clydesdale horses the best held in the world. We will not dispute the point; we here trying to procure the best, bat some su perior animals the owners would not part with. Here also the Ayrshire cattle predominate ther breeds of cattle were at a comparativ discount there. In conversation with a Scotch man, he said: "There's mair money in thes kyes than in any ither ; it's sil'er we need. When passing through the ceuntry we no ticed a very large preponderance of the Ayr shires. The canny scot is a live farmer, and nothing speaks higher for the Ayrshires than their practical utility. The Sootch farmer have been enabied to select the breod that would return the greatest profit, and many proverbial.
Saddle and driving horses were rather in ferior in size to the horses in these classes in Canada. At many county shows in Canada one might see just as good Shorthorns as were to be found here. Other classes of animals were not, on an average superior to those found at Canadian exhibitions.
We went a short distance into the Highlands. The rolling hills covered with heather and small patches of grass, afforded a very grand view, but the poor, hungry, wild-looking sheep bore a very sorry contrast to those we will ye describe.
The grand city of Edinburgh deserves a passing remark. No city we have yet seen deep and wide valley, neatly kept, divides the city into two parts, the castle and old high houses on one side contrast beautifully with the modern architecture and monument in the new portion. Numerous fine monuments are scat tered about the city; some are unsurpassed for solidity and architectural design. The market is quite a marvel; it is on the side of the hill. An immense space is leveled, concreted, and covered with a stone and glass roof; trees, shrubs and flowers are planted on the top or roof, which makes a very fine promenade, and is on a level with the stroct Well may Scotia's
causes.
a little of Glasgow, Belfast and We saw a little of Glaggow, Belfast and
their prices well. In the Shorthorn class there
Dublin. We might dilate on the beautiful,
fertile Green Isle, on the grandeur of Dablin Bay, and on the wealth and civility of this city's inhabitants. Here the Kerry cow, not unlike many common Canadian cowt in the eastern provinces, abounds-small, ine-boned, od and brinded, but good thers. $A$ fow. pulent, but it is the Kerry, the Ayrshire and the pig that have to pay the rents. We will leave the political troublos for the present, and may touch on that at another time. Suffice to say, we were in Belfast the night the first bullets and brickbats were flying, and the last, we regret to state, have not yet been thrown.
We cross into Wales, and here we find a very hardy class of cattle, none of which we have ever seen at any exhibition in America. They are black, of medium size, betwoen the Ayrhire and Shorthorn, are Cair mikors, achive, and are found the most hardy and proitable lass of calle hiy and prosperons Welsh rin ar South Stook, he said: We have ried all other breeds of cattle; thare are none hardy as the Welsh cattle; this country is hilly, in some parts rocky, and it is bleak and windy." It is our impression that this olass of attle would be admirably adapted to our North-west country, and if going into ranching there, we would be inclined to introduce hem as soon as vessels and quarantines might be considered safe. Very large numbers of these cattle are raised in Wales and sent to the farmers in different parts of England to graze and be fattened for 6 to 12 montha before being laughtered, the $h$, 12 ther ountainous parts of Wales
We visited the Royal Agricultural Exhibiion at Norwich. Here the Norfolk or Red Polled cattle make a magnificent exhibit, they eing brought out in larger numbers than ever efore. They are fine large animale, and by nany are preferred to Polled Angus or Aberdeen ; they are now becoming very popular, and the prices of this class have a decided up. ward tendency. At this exhibition the Shire horses may perhaps be considered to carry off the palm. The exhibit of Sufrok Punches was most astonishingly fine. The large numbers xhibited and the superiority of the anmals to hat we have bhy do we not see more of the quetiol The Herefords and Sussex cattle appeared to to be in larger numbers and remarkably fine pecimens of their classes, and to maintain
what it appeared to us two years ago. For instance : There appeared to be two or three times as many white Shorthorns exhibited as at the last Royal Exhibition we visited, and a larger number of roans and a less number of reds. The price the Shorthorns are obtainable for has greatly recoded. Al were very many in Canada that would have car ried off the prizes had they been exhibited ried of the prizes had they been exhibited
there, and our exhibitions show us that there is no necessity for us to import any more Shorthorns at the present time for breeding purposes in Canada, as some hundreds of Short horn bulls have now to be sent to the western prairies at merely nominal figures. To main tain present prices for our breeders, the gerry mandering of the herd books can never reverse the past boom.
A marked difference is seen in the Jerseys exhibited at the Royal and those exhibited in America. At the Royal the din America the fawn and mixed colors a ppear more prevalent fawn and mixed colors appear more prevalent.
Probably the principal feature in which the Royal sarpasses our exhibitions is in the class they term "Hack" horses. This is what we term Carriage or General Purpose horses. It includes the most useful and valuable classes that are not designated under the pedigreed class. The fine large arched necked, clean limbed, majestic, active animals, that ar suited for nearly all purposes, are the animals that we should aim to improve and procure For the lighter weight and activity we saw nothing las winter ar Mr, Lachine
In Clydes.-Canada has already imported some of the best that England can produce and we have now a fine lot of that class in bu and weighing 1400 lbs., clean limbed and active, are the class that we are deficient in.
In sheep, hogs and poultry Canada will compare very favorably.
The Prince of Wales exhibited three Algerian cattle that he had imported. This may be good to show the British public the superiority of their stock, but we could see no commend able point about them.
Ater leaving the Royal we went into Ken near Rye, we overlooked part of the Romney near Rye, we overlooked part of the Romney
Marsh. From this point we could see sixty thousand sheep grazing on the flats below us. These sheep the proprietors find the most profitable. They are wealthy and intelligent farmers that use these lands. They claim that the Romney Marsh sheep weigh as much as th Leicester, Cotswold and Lincoln, have quite a good wool and as much of it, and that thes sheep fatten more evenly than the others.
In the south-eastern part of England th we have seen in the British Isles appear to have such a glossy, shining appearance as these beautiful, uniform, even-colored cattle do. They are really excellent beefers, but poor milkers, and nearly as large as the Shorthorns in size. The farmers claim to receive a higher price for this class of beef than for any other. This is due to the fineness of the bone and to the adaptabillty of laying on fat in an even manner. They do not throw it on in lumps, as the Short
horns are apt to do. Several of this class of cattle have been imported by Americans. Many of the farmers that raise this class of catil eep Jerseys to produce the buter and mor or erseys found in this other part wave seen.
This trip has evinced to us the adaptability of different breeds to different localities more han any trip we have taken. Jerseys and Sussex cattle are rarely to be found in the north, or the Polled Angus nor the Welsh cattle are raised in the south of England. On light lands, hilly lands or small farms the maller breeds of cattle are preferred to the larger breeds. The Shorthorns and Hereford are to be found on the farms of the wealthy where abundance of rich pasture is grown on lat level lands.
A larger sized horse is used in the gentle men's carriages, in all the cabs and private onveyances, than es, or are in general use in the treets of our cities. To be prepared to supply the British market we must endeavor to increase the size of the General Purpose horse of our country.
The Agricultural Exhibitions of 1886.
the industrial,
Held in Toronto from the 6th to the 18th of eptember, opened the ball in Canada. The eather was fine, the grounds spacious, con enient and in good order ; the buildings suitble; railroad, steam boat and street car ccommodation good. The directors and man gers being free from any party or political ties or influences, have been enabled to devote heir attention to catering to the requiremen of the public, and well may they be proud of hlly gadmitted that this has been the best exhi bition ever held in Canada, combining the use ful and the amusing features together.
The exhibition of farm stock has not been surpassed on this continent. The best that the British Isles can raise in some classes were to fairly beaten by Canadian stock, showing that the day has past for the necessity of importing some classes of stock from other countries.
In agricultural implements not one of the United States can exhibit such a magnificen lot of machinery invented in and manufactured from the products of the State, that Ontario can. In fact, Canadian agricultural implement are unsurpassed in the world. The British, the Americans, the French, Germans, Japanese and Chinese were seen there-what for? Why, to learn of Canadians, and they go away satis fied that they have learned lessons from which chey and their const profit. The ments in use in Great Britain are now the laughing.stock of Canadians-things a Cone dian farmer would be ashamed to use. Indee the British farmers must either adopt the use of Canadian and American inventions or leave their farms.
The dairy interest was fairly represented ties in the straw. In vegetables and fruits the
display was astonishingly good, particularly as
the early date of holding this exhibition is
three weeks too early for the full ripening of th fruit, and four or five weeks too early, for th
full maturity of some of the vegetables.
The flol departmo wa very mea
The floral department was very meagre; in
fact, the exhibitors of the miserable looking fact, the exhibitors of the miserable looking
flowers should be fined for exposing such rubbish for the sake of a prize. Of course the florists have their separate exhibiticns at othe times, therefore do not care for this exhibit.
The display of pianos and organs was such as to show no necessity for importing them. The amusement department was well ar ranged. After the daily display of the herd of fine cattle, the horses were put in motion Lady riders and drivers will attract even with out the horses; when they are together the when a horse rasa up falls back fed, an lady and kills her, as was the case in Tona the excitement is too great for many, but still the most attractive to some, despite this acei dent. The display of acrobatic feats, the per forming dogs, the zoological display, the fire works at night, and the "Destruction of Pom pei," etc., etc., wंere all entertaining and amus. ing, and obscene and demoralizing exhibi were not allowed ; neither were gambling, be ting or fraudulent practices permitted. Th masses came to enjoy themselves; they were not disappointed and departed satisfied. The railroads gave the public unprecedentedly low rates for this eximbilion. The exchequer satisfactorily filled, and the reaped a rich harvest
the ontario provincial

Was held in Guelph the following week, and most of the fine stock and large quantities of the machinery were taken there. Other stock, etc., etc., were added, and a good general dis was not as large as it should have been. This may be accounted for in several ways, one of which was the discriminating rates charged by the G. T. R., the rates being greatly in favo of the Toronto exhibition
The great success of the self-sustaining In dustrial Exhibition of Toronto, and the sad inancial state of the Government Exhibition at of exhibitions, and should be well cored from all standpoints to ascertain the causes of the success of one and the failure of the other. We have seen the horse race, the dance and the baby show, betting, gambling, etc., etc., at agricultural exhibitions; we have heard of the latest attraction at an agricultural exhibition in the States, namely ${ }_{k}$ a sum given to a couple to be married before the assembly, and $\$ 30$ paid for the first kiss of the bride. There are now persons worming their way into direct ors' boards by purchasing votes and other worse practices-men who do not know a Suf. folk from a Guernsey or from a Spye-men who lication-men who would swallow up your hard earned land and buildings, and have never been known to write a line, say one word, or spend one cent for the benefit of agriculture or agriculturists. Yet they say farmers are not business men and that they know not how to aaker nxhibitions. Thesharp, practical moneycome wealthy by engaging all the mountebanks nd various attractions of all kinds. Go to the is directors of agricultural societies, secure their
grounds and buildings, give good prizes to armers for bringing in their stock, spend a ood sum in paint and ink in prizes for races. charge high for everything. Of course this could ot be repeated. The prosperity of agriculturists is only good to such for what they can get out of it, and the agricultural interest is an excellent plank to build on.
Questions for your consideration: 1. Will it be best to continue holding agricultural exhibitions, or would it be better to change them heir sphere of ation? 3 would thes be better under the control of the Dominion or the Provincial Governments, municipal corporations, incorporate bodies or private enterprise?
the union exhibition and western fair.
At the Provincial the prize stock was divided, part going to the Union Exhibition at Hamilon and part to the Western Fair, London. The oxhibit in the calle department and in fruit probably excelled in quale hary display was made. The attendance was not to e compared to that at London; the implement manufacturers have always found London an excellent locality to secure orders at, and in some departments the machinery exhibited ex ceeded that shown at any other exhibition in the Dominion. The vegetable and fruit ex hibit was much superior to that made in Toron to or Guelph. The Crystal Palace was not quite as well fitted as usual, and the cattle and heep departments have not for many years been so meagerly attended by exhinitors or visithe Exhibition. The race course and other attractions absorbed the interest and attention of the Managers to the dissatisfaction of many of our most honorable and best stock men. Many left their stock at home and more anticipate doing so in future. Formerly this Exhibition was a great success; this was attributed to the amusements, as thousands will go for amusements that care nothing for the utility of the Exhibition. The mass favor the latter course, although many consider ${ }^{\text {jit }}$ must tend to the injury of he arell $y$ well, and as the not serve tc are the most popular, agriculture and aciolturists must, under the existing laws, take the second position.

The Industrial is not an agricultural exhibi The Industrial and it would not therefore be just to criticize it as such, but it only falls with in our jurisdiction to comment upon the agri cultural displays. If the exhibition as a whole acts prejudicially to our agricultural interests, it is our part to advocate amelioration-either by a change in the rules of the Industria or by the estabishment of purely agri cultural exhibitions. The Toronto show is confessediy a mere lucre" for the citizens for coining , but it may accomplish this and at the same time be a tolerable success from the standpoint of industrial education. The demoralizing effect still continues, however.

Prepare to organize a farmers' club in you neighborhood

## Fiarmers' ©lubs.

Dominion Farmers' Council. [The Dominion Farmers' Council meets on
third Saturday of every month at 2 occloog p .
 Our readers will scarcely recognize the Mid dlesex Agricultural Council under its new name. The September meeting was held on the 4th ult., instead of on the usual date, viz the thing sof the Council was ohich to the Dounion Faryers' Courcil or The meeting was called mainly for pose of passing the new Constitution pur By-laws, as revised by a committee appointed for that purpose, and of settling some un finished business.
the revised constitutiqn and by-laws. Henry Anderson, chairman of the committee appointed to revise the Constitution and By laws, presented the committee's report. Th port was adopted.
thas resolved that two pamphlets be pub By-laws of the Council, with introductory By-laws of the Council, with introductory
observations relating to the origin of the Council, and to the importance of farmers organizations, and the other containing a form of Constitution and By-laws suitable for Farm ers' Clubs, with rules as to how to organiza them. John Weld was app Jinted to overse the printing of the pamphlets. These pamph lets will be mailed free to all parties announc ing their intention to establish Farmers' Clubs, applica
tary.
change of officers
W. A. Macdonald tendered his resignation as vice-president, and Henry Anderson resigned the secretaryship. The resignation were accepted. Henry Anderson was then appointed vice-president and W. A. Macdonald recording secretaries having been combined into one.
damy
President Leitch-Under the heading of be done with those dairy instruments ordere from Germany by the Council.
W. A. Macdonald-I have much pleasur in announcing the safe arrival of the instru ments which you instructed me to order direc from the manufacturer. I have been makin diligent research as to the accuracy of these in struments, having received numerous report f tests from the United States, Germany and rance, and I have come to the firm conclusio hat we have shrok a butter and supply astry.
W. Welid-How much did the instrument
$\stackrel{\text { ost? }}{W}$
. A. Machovald-The total cost delivered London, including freight and duty, was the complete set of instruments. The lacto copes have been on sale in our markets a 9 each. This is merely a taste of what farmer's Council can do in every department of farming should they set earnestly to work. nature of the experiments required by our far-
mers and dairymen and how they should be performed, adding that he had ordered from manufacturers a complete set specially adapte to testing the butter producing capacities of the various sorts of cream.
It was resolved that a lactoscope be sent free to each Farmers' Club organized under th auspices of the Council on condition that such Club send to the Secretary of the Counc the Club that members of the Coucil b privileged to purchase a lactoscope at cost price, and that the complete set of instrument be retained by the Council for the purpose of conducting the tests mentioned by the Secre. tary.
encouraging farmers' clubs.
W. Wrid.-I appreciate your efforts in attempting to organize Farmers' Clubs in different portions of the Dominion, and I assure you the support of the ADvocate so long as you continue to act honorably, faithfully and independently. For the parpose of aiding cessfully begun, permit me to say that all Far. mers' Clubs organized under the auspices of the Council, will be entitled to the Advocate at reduced rates, viz: 75 cents a year, instead of $\$ 1.00$, the ordinary rate.
oherse and fruits at the colonial.
Mr. Weld addressed the Council, giving some of his observations at the Intercolonial Exhibition. He said there was a great difficulty in procuring Canadian cheese at any of he restaurants, where it was supposed to be some time, there were on the Colonial market some samples of chesse which were said to be of Canadian make. A white cheese was sold in small pieces at 8 d per pound. By its side were small pieces of colored cheese, composed of not more than one-half new milk, and nother quality was labelled at 7 d per pound. tested the cheese exhibited by Mr. Millar, and although not fully ripe, I considered it better than any other quality exposed for sale. which were also ally Candion uch inferior stuff shipped from this locality, They sold for 4 d per pound. I believe arrangements could be made for erecting a store house in this city for apples, where they could be shipped, preserved, dried, or converted into cider, apple butter, etc., according to the demand of the various markets for these commodities. The carrying out of such a scheme would, he believed, enhance the already well established eputation of this city as a fruit centre, and Mr. T. D. Millar, Ingersoll, Ont
our leading cheese men, was introduced to the Council by Mr. Weld, and was requested to offer a few suggestions. He said Canada was not known in England or Ireland ; all on this continent were "Americans." But United States cheese was now sold as Canadian. The Americans were dying to get control of the Canadian cheese trade. In the great markefs of London and Cilasgow, all was Amtierteah cheese, the name of Canada not being men
tioned. We should have houises and Clasgow specially for our own dheese, with Liverpool as our receiving port, and we should engage men to represent our interestes!, The affair might be a joint-stock condetri? whill
at the [Colonial Exhibition he met an agent who represertod houses in Africa, New Zeaout a trade for Canadian cheese. He (Mr. Millar) received a postal card from a man who had seen his cheese at the Amsterdam Exhi bition. The card was dated at Gibraltar, and to his great surprise it had reached Ingersoll inside of two weeks. The opening up of the C. P. R. route would stimulate the cheese trade in the countries mentioned. The Canadian manufacturers had a complete knowledge in the science of cheese-making, and no further improvement could be expected so far as the manufacture was concerned. Attempts should now be made to get honest milk from the farmers and delivered in a better condition. For the purpose of accomplishing this object, he thought a joint stock company should be formed in London, and not less than 1,000 acres of land purchased, the company supplying its own mik. By the schion the what best quality of cheese could be made, Similar best quality of cheese could be made. Similar the Province. Ordinary cheese factories could not compete with these companies, as the former did not possess the requisite skill for the manufacture of a first-class article. Unless such a scheme were put on foot, measures should be taken for the payment of milk to the various patrons according to its quality, so that the reckless farmer could not profit by the skill of the progressive farmer. All bad milk should be peremptorily rejected; bat as matters now stood, it was impossible to do so, as there was so much demand for large quantities of milk by all our factorymen. Melbourne and Sidney would be good centres for our best cheese. He had seen New Zealand cheese sell on ought 603 If we controlled our British brought 603. If we controlled our British Americand not find a market for their Americans could
congratulatory.
Mr. Shipley, a member of the Board of Agriculture and Arts, was introduced by Mr. Weld. In a few brief remarks, Mr. Shipley said he was deeply interested in the proceedings, and he inereted in the milk tests conducted by the Serested in the milk tests conducted by the Secretary, and the scope of the experiments, he understood enough to be cenvinced that they were just what our farmers and dairymen wanted. He hoped to see the tests continued. minerals and grasses in the north-west. Mr. J. F. Latimer, of London, who had been engaged in a mineralogical expedition in the North-west, was introduced to the Council by Mr. Weld, and gave a brief account of his which he had found between Rat Portage and Port Arthur, the principal mineral being gold, mixed with silver, copper, lead, sulphide of ron, and quartz. These were found chiefly on slate rock which stood on edge. Some of the minerals found at or near the surface yielded $\$ 1,300$ to $\$ 1,400$ of gold per ton ; other speci mens, found 100 feet below, yielded $\$ 2,000$ or more per to..2. These figures showed that gold existed in these districts in paying quantities, existed in these districts in paying quantities,
but as yet little was done in the mining busi
ness. In the Turtle Mountain district he had counted not less than fourteen varieties of
grasses in one locality. Some one or more va rieties kept constantly springing up ; the growth was luxuriant, and the butter derived from these grasses had a delicious flavor
President Leitch. - Our native grasse should be better tested. We test nothing here except the European varieties. Our native blue grass makes the best quality of butter and cheese, and is hardy enough to exterminate European varieties with which it is sow The Council adjourned antil the third Satur day in October.

The 》ary.

## Permanent Pastures

by prof. l. b. ARNOLD.
Permanent pastures seem to be a hobby with some dairy farmers and writers, and the press maintain them. I have never taken any stock
mord in them as a desirable thing to seek for, but on the contrary, have looked upon them as stumbling block in the way of progressiv dairying, and a thing to be avoided excep under peculiar circumstanoes. I consider that there are three classes of farmers, and b three, for whom permanent pastures are appro priate. The first consists of those who hav land that is not arable; the second consists those who have more land than they have any moral right to own, that is those who have more land than they can clative prope an ome of it must be neglected, and the chif es to cultivate thes own and might tivate if they had the energy and will to do so. Permanent pastures and meadows are great in atitutions in the eyes of lazy and dull men, and perhaps are as well suited to their capacity anything.
anything
When land is too stony, too steep, too woody seep it in permanent pasture, and get what ever it will yield. There is, in fact, no other use to which it could well be put, unless, perhaps, it was put to growing timber, which, under some circumstances, might pay better that grass, and under others not. Then, again, if one has more land than he has means to cultivate well, and some of it must be neglected, it would certainly be better to keep that which would be the least profitable and most incon enient to th, in pastare, rather han not mak of at al. But when a man inds himsel Jnstice to it is generally better for him to $\frac{1}{}$ ne his operations to what he can cultivate to the best advantage, and to sell the remainder, for if the land has any considerable merit the interest of what it would sell for would, nine times out of $t \in n$, be more than the use of it for permanent pasture or any other pasture
Pasture land in its best state generally pays the poorest of any of the arable part of the arm, and permanent pasture poorest of all. There are several reasons why this should be 30. First, the grass in a pasture is necessarily unthrifty, because it is so frequently cropped. No plant can flourish and be vigorous which is
every little while denuded of its green herbage. every little while denuded of its green herbage.
Every time grass is wounded by cropping its
growth is put back. It stands still, or grows but feebly, till it recovers from the shock and has time to gather renewed energy sufficient to throw out new shoots, only to be again stunted, and to repeat the same thing over and over again through the season, or an fill any attempt at growth. $I$ overy dition was favorable, the beced to do would b in a pasture could be experted to to mith what they would be if left to ondisturbed through the season, or till the reach their full size, as in the case of meadow land. The closely cropped grass in a pasture does well if it makes one-fourth of the weight it would if not mutilated. But it is further in jured by being trampled on, causing injury to both grass and roots. The ground is also com pressed, diminishing its capacity to hold water as well as affecting growth and hastenin evaporation, which is always too rapid, owing to the poor protection from sun and wind the scanty covering of grass affords. It takes but little drying to stop the growth of grass in an pasture, but much less in old than in new, that long seeded pastures are the first to suffer from drought, and to pinch the stock depend ing upon them. Unless the conditions as to soil and moisture are unusually favorable, the growth of grass on old permanent pastures runa ap and down with eyery favorable and unfavo able turn in the weather, making their supply of food a very precarion anair perfec game of ch
There are some good points about permanent pastures. Their slow growth produces rich and sweet feed, that makes good butter and cheese, and beef and mutton. It is, as a rule, true of grazing generally, that it makes higher fed on and richer milk than when cows are The flavor of herbaceous matters, and grains, and fruits, are heightened and increased by the influence of sun and air. Open pastures are supplied with a fuller share of these necessary agencies than can be furnished to more crowded and massive growths which ase developed by tillage, and for the same: cazon light cultivated crops give a better quailty of herbage than heavy ones; but the better quality does not make up for the smaller yield. So with pastures. Though they may make the best of milk, their scanty and precarious returns do not enable their owners to compete with those who by cultivation and rotation of crops get larger and more reliable returns. The latter make mity, and less cost thy qu observation for that dairymen who in dulge the least in pastures are the most properous, but the former get what little they do get easy, and that is a weighty consideration with lazy people.
In view of the small yield and sensitiveness to drought of old pastures, it seems to me an unwise policy to think of establishing permanent pastures on good arable land in Canada and the Northern States, when with a little labor and forethought such land can be made to yield six or eight times as much with almost absolute certainty. A full, uniform, constant and reliable supply of food for dairy cows the season through is a sine qua non for proftable
dairying. With want alternating with plenty,

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THE FARMER'S ADVOCATE.
there is no profit, and this is the rock on which more dairymen split than on any other The present season has furnished a sorrowful demonstration of the short-sighted policy of of food furnished by to the uncertain supply the best and freshest part have suffered more or los. The west and Texas have suffered gecill Cheese factories and orearies have bee closed for lack of milk, and the returns from private dairies have dwindled to a ruinous pittance almost everywhere, and loss is common. The loss this year is more than usual, but it is not altogether strange. More or less loss from drought occars every year, and periodically is severe in localities, but all this loss is avoidable, and not a necessity. Such men as the Hon. Hiram Smith, of Wisconsin ; John Gould, of Ohio ; Hon. Harris Lewis, of New York, and Edward Burnett, of Massachusetts, and many others of the same sort, go through such crises without wincing at all, and men have loaned the it unwise to por sole trust in patures, enevially old onet, that tillage and rotation of cropsere better, and by their steady success, whether drought pre vails or not, they are public examples of the fact that, be the seasons what they may, hot or cold, wet or dry, dairying is one of the most profitable and certain of all agricultural in dustries when a fair share of common sense is employed in its management. With the experience of such men, and the lessons of the present season before him, the dairyman who fails to become impressed with the necessity of providing against the ever-recurring drough by some more efficient and certains means than scanty pasturage, while entitled to sympathy for the losses that await him, is still more to b pitied for his stupidity.

Dairy Tests at the Industrial and the Provincial.
At the above named Exhibitions, held a year ago at Toronto and London, tests of the respective merits of our leading dairy breeds were inaugurated, the results of which were pubished in the Advocate. We landed the the tests, although not founded on strictly ac curate principles, were an important move ment in the right direction.
As the battle of the dairy breeds has con tinued to rage more fiercely than ever, it wil be interesting to inquire what has been done a these Exhibitions recently held. It is asserte that last year's dairy lests at the Industria cost $\$ 1,000$, and that this sum was too great in proportio to realized. This was unqu the work done, travagant of etempting to reduce the exbut res of the tests this year and increase thei penser ol value, the management caused them to dwindle into a farce. It was proposed to test the respective merits of the breeds by merely noting the volume percentages of the cream, and if Mr. Valancey E. Fuller had not exposed the business through the columns of the daily press and otherwise, it is quite prob. able that the tests would have actually been made and the results published to the world This would have produced little damage, how
ever, for every intelligent farmer and dairy man knows that the percentage of cream is no guide whatever as to the butter capabilities of a cow. What now about the tests at the Provincial? We certainly should expect better results, fo the Board of the Agicalcaro and Arts Asso the wants of our farmers Un intendence of Mr . J. C. Snell, a member of the Board, a puerile attempt was made to institut a test of the breeds. The managers of the Model Farm, who figured in the tests last year refused to participate in the farce. Mr. Snel is a Shorthorn breeder, and we don't think that he claims to know the first thing about the principles of butter-testing. If it had been proposed to appoint a butter expert to superintend the judging of Shorthorns, Mr. Snell would have seen the joke at once, and would unquestion ably have resigned his position as superinten dent of butter tests. Mr. John Hannah, Sea orth, President of the Ontario Creameries As but if he had known the difficultio he hast surmount, notably the great lack of facilities it is not likely that he would have staked his high reputation on the miserable farce. If the Board does its duty to the farmers, the teste will not be published, for they must be very misleading, and they will afford an opportunity to the possessors of a certain breed to foment
We examined the methods, or rather the want of methods, of feeding for the tests ; also the quality of the milk produced. Mr. Valancey E. Fuller was the only competito who understood how to feed for records ; we believe he could make any breed come ou Onead in a competion wh dinalours Oress and hat her feed, by mean of which she sickened during the contest Another competitor, an owner of a thorough Aned Shorthorn cow whose milk we examined, brought in milk of such inferior quality that it would pass as being adulterated with water. In fact the whole business was a test of the feeder, and not of the breed. Mr. Snell denied us the right to examine his system (!) of testing. We are not surprised at this ; for it appears to be the policy of the Board to do their deeds in darkness when the interests of the farmers are concerned. "Light, more light," is our policy. When Mr. Snell comes to find out that the Shorthorn proved such a dieastrous failure, he will likely attempt to suppress the publication of the repor, whe hi. Fils, who has gained twelve hours, will probably insist upon the publication of the report in the interests of the Jersey breeders. If the report of the tests be published, we warn farmers against placing any reliance in it. No test at all is much better than half a test.
The Holstein breeders wisely refused to com pete, and it is likely that the upholders of the other dairy breeds will accuse them of coward ice. The Holstein men have displayed honesty as well as wisdom, and one of them informed us that he would not put a cow into such a butter-producer in the world.
The cows entered for the competition were The cows entered for the competition were
-2 Ayrhhires, 2 Jerseys, 1 Shorthorn, and 2
Shorthorn grades.

English, Canadian, and American Dairy Products.
A tour amongst the English dairies recently
completed by Prof. Arnold, brings to light some interesting dairy facts relating to the relative merits of English, Canadian, and Amerioan dairy products. The Professor, in a letter to the "New England Homestead," makes the ollowing allusions to the subject
Jadging from the fow factories visited and the cheese seen, they are turning out quite ss good as the Canadian factories, especially those in Western Ontario in the neighborhood of Ingersol. The best cheese I met with was from Western Ontario, and it everywhere took the lead in reputation and price. Not all the cheese, however, from Western Ontario was
fine. All I saw that was made on the old aoid process, still too much in vogue in Canada as well as in the States, was no better than State made hy drawing the whey sweet and giving
the curd a long ripening after it is out of the whe curd a long ripening after it is out of the Whey by keeping it warm, that has given to and it seems a pity that other factory men, and especially our own, are so slow in adopting it.
$\cdots \neq$ The English have the advantage of us in respect to conditions favoring cheeese-making.
Their rich soil and moister climate produce Their rich soil and moister climate produce grass that makes a curd that will average
mellower and richer than in the States or Can. mellower and richer than in the States or Can-
ada, and their lower and more even-tempered atmosphere in summer is more favorable to good
curing. They ought to beat us in the oheese curing. They ought to beat us in the oheese
branch of dairying, and they may yet do so if
if they study the philosophy of the art as industri-
ously as many of our adirymen do.
In the midland counties, where most of my
In the midland counties, where most of my
time was spent, English butter, I b became well
satisfied, was not quite as high flavored or as high colored as American butter, either States or Canadian, when all were uncolored and other
wise made alike. A rich soil, all other conditions being equal, contributes to richness of mitt and to high flavor in butter, and seeing that the soil
averaged richer in England, I anticipated find. veraged richer in England, I anticipata ing higher-flavored butter, and was surprised
and at first a little puzzied to account for its being lower flavored instead, but after studying ought I saw two causes operating to protuce the unlooked-for
uaalities. One of these was the want of sunhine and hot weather
In England there is more foggy and cloudy weather than here and the grass there gets
nuch less sunshine. England has a more quable climate than we havend has a more there in winter and cooler in summer than with us. Flavor in grass, as in fruit, is the combined product of sunshine and warm weather. Other ut where all may modify the flavor of grans,
onditions are equal the wer the temperatare at which it grows the rass is sweetened and improved for milk, atter, and cheese, is a fact well known to mer temperature and cloudy weather of Northern and Middle England will appear a sufficient
cause for depressing the flavor and color of cause for depressing the faror and cior of

Chicago and New Yolk are to be supplied with milk made from nitrate of potash, glyoerine, and other pleasing chemicals. The people of San Francisco had been fed on this com. pound for several months, and did not find out the fact until a few days ago, as the bogus ar ticle so much resembles the genuine that only the bottle-fed baby can detect the diferonce ; and, unfortunately for the rest of mankind, the tll the greater because a physician furnished he receipt.

The Ayrshire Cow coming to the Front.
A meeting of the Ayrshire breeders was held in Guelph on the 24th ult. for the purpose of organizing into an association for the promo tion of the Ayrshire breed of calle. Mr. D. Nicol, of Cataraqui, Ont., was appointed chairman pro tem, and
Merriville, Ont., secretary
We are pleased to see this movement on the quently insisted that the Ayrshire breed deserves greater prominence than it has hitherto received ; but our writings have produced little practical effect owing to the want of cooperation from the Ayrshire breeders. Unlike other breeders, they have not come forward in a body to present the merits of their breed, without which little progress can be made in these days of booms. Notwithstanding the enormous records imposed pon the farmers by those interested Ayrshire men are not afraid, providig out the tests.
We do not yet commit ourselves so far as to believing that the tests have neither been numerous nor reliable enough to prove anything, but we shall continue to advocate that the tests be conducted in the interests of the farmer, and not for the aggrandizement of the manipulator.
The merits of the Ayrshire as a milker cannot be denied, and her milk is above the averge in the percentage of butter fat; but she has this drawack, age of the fat remains her value as a butter detracts somewhere however, depreciating her value cow, wese producer. Her appearance and tractability are greatly in her favor, and she possesses in a high degree the external indica tions of a superior milker. She is exclusively a dairy cow, and we may therefore expect that the cost of production of her products will be found to be much less than that of the beefdairy breeds-the so called "general purpose cow." There appears to be fewer scrubs amongst the Ayrshires than amongst any other dairy breed.
At the Provincial Exhibition there were as many Ayrshire cattle as Holsteins and Jerseys combined. If the entionate to their numbers, or equal to that of the Holstein or Jersey men, they would soon sweep all before them.
Our Ayrshire Herd Book was established in 1572, and is under the control of the Agricultural and Arts Association. The first volume was published inich the Board of this Association have made of the Shorthorn Herd Book will not soon ise forgotten, which mat a confidence of our farmers in the ofier herik books under the same control. We should ow to see the heok.
The attendance of the Ayrshire breeders at their first meeting was not so large as desirable, but the beginning is never indicative of the a meeting to be held in Toronto be called about a Nev Year, and that all the Ayrshire breeders

## stock.

## What Constitutes a Thoroughbred

 Shorthorn:
## To the Editor of the Farmer's Advocate:

SIR,-A letter in your August number over the signature of Robt. McQueen illustrates some grievances in egard to this breed, and being a young man and personally interested, 1 haves waited patiently for more light on the sub ject through your columns, but have failed and not having the present. Being a newspape correspondence, I feel my inability keenly; but there are some glaring imperfections in connection with the management of this breed's pedi grees that have come under my notice, whic I feel in duty bound to uncover, hoping that others better posted will the thation Ill we small bre
e are building on
1 first made up my mind to start a herd of purchased three animals from a breeder a Bowmanville, which were registered in the Canada Shorthorn Herd Book, but on getting home with them those posted in the breed told ne they were no use unless they would register in the B. A. S. H. B., and referred me to its ules and regulations, two of which I give be ow, taken from its first volume, as follows :

1. "The Association have now much pleasure da the first volume of the B. A.S. H. H. B., containing the pedigrees of over 2,800 thorough bred cattle, none but those tracing directadmitted to record on its pages.
2. "This Herd Book is intended to fill a want long felt of some reiliable source the farmer and breeders of the Dominion, it is to be hoped that it will meet with their approval and be accepted as the standard or bereeding A vas amount of labor has been expended on this amount of labor has oramination of each pedigree sent
work in the exat
in for registration, and in the culling out of all in for registration, and in the culling out of ald
those having the' 'east trace of impare or grade those ha
blood."
On the strength of this, I thought it best for me to register in the B. A. S. H. H. B., which I did, and considered myself safe in laying the foundation for my herd. I afterwards purchased some twelve head of Shorthorn cattle from two breeders in Prince Edward County, and took pains to find out that they were eli gible for registration were registered.

$$
\begin{aligned}
& \text { in fact part of the registered. } \\
& \text { The next feature in the busines }
\end{aligned}
$$

The next feature in the business was the name of the Dominion Herd Book, with the name of the Dominion Herd Book, with the
same rules as the B. A. S. H. H. B. I found myself again elected to re-register my twice registered cattle, and sent in my pedigrees to H. Wade, the Secretary, with membership fee, and thought myself safe, as the rules were identical. But what did I find? That out of my herd, numbering 26 head, I had 12 rejected pedis rees on account of a bull, Napier ( 1825 C. S. H. B.), and one pedigree of heifer Pauline, tracing to bull Napier ( 1825 C. s. H. B.), ece 1 Hified cony of which I hold, is not on the books of the Association; and on hunting up this matter, I made a trip to Toronto and examined the books carefully myself, but she had not
been recorded at all. On inquiring of R. L. Denison, I was told that it had boen received and filed away for registration, but had selip.解 fod an asociation who professed to scrutinize very pedigree so carefully and reject all those having the least trace of impure or grade blood, and who is now the registrar of the pedigrees of cattle entered in the new Herd Book. Can we breeders put any confidence in this new Dominion Herd Book, with the same rules and the same registrar that the B. A.S. H. H. Book possessed, which contained, according to the present investigation, thousands of grade and impure pedigrees?
Where am I to find a thoroughbred Shorthorn, or what country possesses a herd book containing the pedigrees of none but pure thor oughbred Shorthorns? A Breed or crest and a ritain can regos of the United States can register an animal of seven crosses in their respective herd books; but now, under our present man agement, it looks to me like a premium on importing cheap cattle from Great Britain, for our standard does not allow us to register with 50 or any number of crosses, as will be seen by the Rodger stock, numbering up in the thousands, being rejected, and tracing back as far as 1822; also stock from North Star and other noted animals, which are not eligible because they do not trace to imported stock where they re jected four crosses. Where is the breeder who has cattle, if traced back far enough, but would spring from grade or common stock
In my opinion, the herd book question will discard men from our employ who have been so faithless in their former charge, and erect some tandard of merit, as well as pedigree, by which cattle may be registered, as many of the best specimens of the breed will not register under the present rules, and many that are registered are inferior animals. I know such is the case in my herd and in some other herds I have examined. Any one acquainted with the present system of registering knows that we are totally depending on the honor of the breeder we purchase from, as there is any amount of room for a breeder so desiring to have spurious pedigrees registered. T hope this matter will be thoroughly ventilated, and let the standard be erected as high as you hoose, buidece in and let us keep out the importation of grade stock.
R. J. Grahan, Belleville, Ont.

The first natural laxative in the colt is the first milk secreted by the dam, but this may sometimes be deficient or unhealthy, the consequence being that the bowels of the colt fail to produce evacuation freely. Costiveness and its long train of evils usually follows, ending This condition may be prevented, if taken in time (which can be ascertained by watching the colt closely for a day or so after being dropped), by giving a three-ounce dose castor or olive oil, with a teaspoonful of land anum, if the bowels do not move freely
The most burdensome tax on the farmers is the keeping of so many fences.

A Chatty Letter from the States. [from our Chicago Correspondent.] comparatively small attendance of people, and financially it was not a success by $\$ 10,000$. There were too many big premiums given to gentlemen's roadsters, trotting horses and saddlers, which were generally taken by city people. After the numerous late series of races here, the city folk did not care to go and cheap horse racing and the to be largely had too much drouth and low price to hal very enthusiastic over what should alwa fee a grand autumnal festival and season of rest recreation and sight-seeing.
The display of French draft horses was the largest ever made in this country, and was indeed a feature of the fair. But when it came to a matter of premiums, the fourth-rate rotter in a two.wheeled gig, and the bob tailed runner, ridden by a feather-weight darkey, who resembled a grotesque monkey more than a human being-these seemed to be far more important than the draft animals, to be seen.
In the cattle departments, the special herd premium of $\$ 1,000$ went to the Herefords Stock farmers in all the eastern and central portions of the States are looking forward to the time when the ranching business will be no more, at least in its present shape. Ordinary field cattle stand but little show against the "free grass " cattle of the West, which can in many cases be run a year for $\$ 1$ per head. Store sheep have been in unusually good de mand this summer and fall. A year ago, when literally full of fattening muttons, the outlook seemed bad for feeders, and for shem thin heep, breeding sheep and all, were hurried to market and sold almost regardless of prices. But during last spring and summer it suddenly became evident that sheep were scarce. Lately country feeders have bought all the oung sheep they could get at $\$ 2$ and $\$ 2.50$, and several thousand 115 to 118 -1t Oregon and Montana sheep sold to Illinois and Michigan eeders at \$3.50.
The ravages of hog cholera this year have een something appalling. Hundreds of farmfollow their fattening cattle. The hogs lately narketed have been of remarkably good qual ity, but there have been no more of the good to prime sorts than have been wanted at good prices. The outlook for hog raisers the coming winter is regarded as fairly promising. The Chicago hog packers at the present writing are still working their men on the eight. hour system. It places them at a disadvantage with all other points where the men are compelled to work ten hours.
Seldom have cattle men in the States been more discouraged than during the past month attle from the western plains demoralized the markets for all but the very best cattle There has been a reaction lately owing to the mooted shortage in the corn crop, and not a few feeders are confidently looking forward to $\$ 6$ for choice cattle during the early part of next year at latest. If an advance in prices is contingent upon a
material shortage in the corn crops, some "gere where they have a shortage of corn, but on an verage there will be corn enough for all pran ical purposes. If there is any materia mprovement in cattle prices it is more apt to ome as a result of many feeders curtailin perations than from any shortage in fattenin naterials. The drouth of 1886 has been one o he most disastrous visitations of the kind in any years, and coming as it did in the de ressed state of commercial affairs which fol eems doubly hard.
The time seems to be coming when America stock breeders, who make a business of osplying breeding stock to beginners and measure find the supply greater than the de mand. The stimulus which fine stock breedin received less than ten years ago has resulted in overdoing the business in all of the ordinary nes. ${ }^{\circ}$ Now the breeder of grade bulle does not meet anything like the encouragement he after all is asaid and doen to be realizing that breeding is oly two fold for beef milk-and when it comes to a pration sideration of these two objects, breeders are learning that they who ignore entirely the claims of the good, "common" stock of the money.
It has been a bad year for the raiser of big, 1,600 to $1,800-\mathrm{Ht}$ beeves, and very few raiser and feeders but have lost money at $\$ 4.75$ to $\$ 5.25$ for their costly ballocks.
The old complaint of excessive freight tariffs cockmen in the West. being renewed by the harge about $\$ 1.25$ per head more than cattle and beef from Chicago to the sea than last year. This, in view of the fact that cattle are selling fully $\$ 10$ per head less than lasi year, seems a very uncalled for "gouge." I simply goes to show the power of pools or rail way combination. It is believed by some that the consumers in the East pay this difference, or a fair share of it, but such is not the case. The men who produce the cattle are the ones who are compelled to pay this excess. It is in
the line of what English producers want, as every advance in freight rates on cattle in this
country makes producers that much less able country makes producers that much less able
to compete in the markets of their British to compete in the markets of their British
cousins. The railway monopoly is a dangerous one, however, and one which may well strike
terror to the hearts of those who are at its terror
mercy.

The Shorthorn Muddle.
We submit to the careful perusal of our read ers the letter of Mr. R. J. Graham, published in our stock department. The writer has no cause to be reticent on account of his youth and asserted inability; his letter is very should strike alarm into the minds of our farm ers. In our April issue will be found an ex posure of the frauds connected with the recent ly amalgamated herd books, and the Advocatr is the only journal that had the courage to speak out the truth, the other agrioultural papers ernment and upon our live-stock manipulator to even mention the deplorable state of affairs.

Some of the manipulators affected great generosity when they announced that they horns which ore not a figible for registry in the Dominion Herd Book; but they must have anticipated that this loss would be balanced by the increased price of the remainder of their herd. Their expectations, however, do not seem to be realized, for we find that stook registered in the new book are being auctioned off at less than "scrub" prices, and we know of a breeder who holds two yearlings of unregisterable stock at $\$ 300$ each. The wail of the manipulators was that their herd books were held at a disoount by American breeders, and Herd Book was in a still more deplorable plight than our own. The Amerioans clapped a pedigree tail on almost any beast, and our herd books accepted that as their standard. It is not to be wondered at that many of our honest and innocent breeders, like Mr. Graham and Mr. McQueen, should ory aloud for justioe, if not for revenge.
Granting that the powerful ring will obtain higher prices for their stock in Amerioa on ascount of the change, what is the position of our onest breeders and our farmers? The small et for their surplus stock, and what do ourarmers want? Certainly not higheonding ames and long, aristooratic pedigrees. Individual merit is what they demand, and to them four or a seven cross is just as satisfactory as he offspring of imported stook. We are sorry to find that our disappointed breeders are not nanimous as to what course to pursue ; indeed, we hardly know ourselves what advice to give. The ring is strong, and have the Board of the Agriculture and Arts Association under their oven hoof. The same officers who perpetrated hese outrageous frauds are still in office, and he same poverty, wits, still stares them in the ace. They have applied to the Dominion Government for a bonus to enable them to continue to ply their nefarious trade, but that body can searcely stoop so low as to accede to their demands. The want of funds may be a barrier to the establishment of an honest herd book suitable to the wants of our farmers, and this obstacle cannot be overcome by the oluntary support of honest men, then the day pedigrees are numbered-that's all. The exating principles are utterly false, and it is oo legs to stand on. Any herd book establish ed on the basis of individual merit will receive our unqualified support; it will not be so voluminous that it will be too costly for selfapport, and we shall still cling to our oft-as. erted polioy. that we shall wage eternal war gainst all scrubs, no matter of what breed or ind, until they are effectually weeded out of our herd books, as well as out of our stalls and pasture fields.

The Farmer's Advocate.
Now is the time for our subscribers to get up club for the Anvocats, as the balanoe of this year will be given free to new subscribers. We ope all our old subscribers will send in at least ne new name. Extra copies will be mailed for oan vassing purposem at request.

## Ghe Frarm.

A Cheap and Serviceable Rail Fence
The accompanying illustration shows a new invention by Mr. C. Avery, Clinton, Ont., of which a patent has recently been issued. We have examined the enctalty combined it cancheapness and substanian form most localities. Mr. Avery, the inventor and most localites. Mr. Avery, bere and we believe patentee, deal honorably with those who wish to buy township or county rights from him.
The attachments firmly secure rails or boards
of a fence to the posts, and consist of a loop of wire passing around the rails or boards and secured to the post by a staple. In attaching rails to posts, in the accompanying cut we start from the left, the loop is secured with staples, the rail is then inserted, then pressed up to next post; it makes a tension on the wire which binds the rail against the post, making the fence strong and rigid ; a loop is then made to corres pond with the next rail is put in the angle, then pressed up to third post, which angle, then pressed up to third post, which
binds both rails to the secon for an indefinite course. As will be seen by the cut, the rails may pass alternately from one side of one post to the othe side of next post, or they may be alternately on the same side of two posts, which leaves the fence perfectlybalanced. It is possible, but not always practicable, that they will hold the boards or rails to the boards or rails to the pliances. The staples pliances. ine staples, however, involve little labor and expense, and to each loop is sufficient, securing the wire loon to the post. No. 10 galvanized wire is recommended.
In estimating cost of fence, count posts at 10 cts . each, ash rails at 31 cts., or cedar at 5 cts., the rails being 12 feet long. requiring about 8 inches of a lap; it will leave about 11 feet nd four rails make a good stock fence, which will call for six rails for a rod, making 21 cts. will call for six ralls for a rod, making 21 cts.
per rod for rails, 15 cts. for posts, and 5ets, will supply wire and staples. With regard to setting the posts, it varies according to soils and locality, being from (cits. to 10 cts a post. Two men will put up sixty rod in a day with a little practice. This makes a total of cocts. a rod, and by using economy it can be built for 50 cts . For a four rail fence the proper spaces will be six, eight and ten inches, then by bank ing up eight or ten inches, you will have cood four and-a-half foot fence. Agail, focattle and horses,
Rails do not lie on the ground to harbo that by getting a supply of posts most farmer han extend their old rails for years, and say ove half an acre on every ten acre field by setcon nepairing fences.

What About the Manure Heap: In some farm practices the "old rut" has been proved to be better than the new one, Not so with reference to the common method of handling the manure, however: for a more senseless and
be devised.
No rule for saving the manure will apply to any two farmers; indeed, no one farmer can onlow, year after year, the same rule with the the first principles be thoroughly understood, so that variations in the different methods can be made from time to time to suit the ever changing conditions. Under any circum stances, the manure heap should be figured on at least a yoar ahead, and now is the time to do the reckoning. Where the soil in every field on the farm has the suiform meth physical character, a more plied, but this saving the manure can be applied; but this a rarity, and not a rule. the character of thod of saving the manure, but not so much as the character of the soil. Where the barnyard manure is supplemented by commercial fertilizers, still greater skill is required in the management of the manure heap, and every

ould not take place to any appreciable extent in a well-managed heap. The latter loss is aused (1) by over-fermenting or "fire-fanging," ver-heating, the loss is confined to the amnonia : but in leaching, a large portion of all the valuable constituents are washed away. This loss is especially great when rain falls on a heap well advanced in the stage of fermenta. tion, for the constituents are then more soluble. A loosely-made heap of rich manure is specially liable to over-heat, while it is difficult to start ermentation in a compact heap made from the droppings of poorly-fed an wher fermenta tion can be best rege and ig manure, mak. the horse, cat five to six feet wide, about the same height the length depending upon the uantity of stock. Should it be required to ferment all the manure, more than one such heaps may be made, commencing before the frosty weather sets in. A covered shed is not necessary-sometimes it does more harm than good-but care should be taken that the man ure be spread evenly over the heap in order to prevent its freezing in lumps, and if a heavy rain threatens, top off the heap so as to ward off surplus rain. A considerable amount of moisture, however, is necessary in order to take up the escaping "fire-fang." Manure treated in this manner will be ready for the spring crops, a season's time thus being saved, ${ }^{4}$ uuick returns made, and a loss of fertiliz
It is now necessary to understand what kicd of soils manure thus prepared is adapted
armer can greatly economize by the use of such fertilizers, providing always that he under tands how to apply them.
There has been a great deal of tongue and pen warfare about the application of green vs. rotted manure. Sucl? discussions produce no practical results, as the question is a settled une it depends whether the maure should be fermented in the larn yard or spread directly upon the field. The first question to be decided is, Whit changes, or losses, or gains, take place in the process of fermentation? In the first plice, every farmer knows that the
bulk is greatly reduced in size and weight, but whether or not a proportionate amount of plant food is lost cinnot be detected by ordinary olscrvation. One thing is certiin, that no nutriment can be added by fermenting the heap, but this is no proof that the process is bility of the pant give ofieler prand be divided into tiví classes: (1) The loss of carbon ceous watter which. inst the loss o carbonaceous matter which must take place, for $y^{\text {lants, }}$, hit is useful in the soil for the purpuse of acting "un: the rocky particles and the direct comstitnonts of plant food, which $\left\lvert\, \begin{gathered}\text { It now remains to be onsidered what kind }\end{gathered}\right.$
of manures are best adapted to clay and vegetable soils, and how to prepare such manures Coarse, unfermented manure, when plowed under, benefits clay soils in winter by exposing them more completely to the action of the air and frost, and in summer by decreasing the tendency of the soil to bake; but these objects are much more effectually attained by thorough draining and tillage. The disadvantages of coarse manures on heavy soils are that they hinder the movements of moisture and decomsutficient nutriment to the growing plants. On uch soils, the manures, both liquid and solid, should be hauled directly from the stables and spread upon the field, no straw being used as bedding. The hauling may be done at any season, and any length of time before the sowing of the crop, for mostly all the nutritive constituents will be absorbed and retained by the soil, but the manure is not usually plowed under until near seeding time. However, we have obtained the best results by applying green manures as a top-dressing on the plowed ground, applied in win ter, the ground being
cultivated and harrow ed in spring. Such topdressings are specially valuable for shallow rooted crops.
rooted crops.
When it is
ed that heavy soils are usually deficient in organic matter, the applying of muck is the very best practice that can be adopted. Barnyard manure is also very rich in organic matter, so greatest possible quangrity at the least expense, dry muck should be used under thestock toabsorb the urine, and the whole mass may be hauled directly to the field. The farmer who cannot conveniently obtain this article may use dry earth of any kind, saw dust, or any other absorbent. Besides the beneficial accion an on the acter oclay sorn bard manure.
The aplication of barn-yard manure to table soils is a great waste of capital. Such manure, no matter how prepared, cannot be profitably used, especially if there are other kinds of soil on the farm which need manuring. Phosphates (in the form of bone dust or super phosphate) and ashes are the most profitable fertilizers, as they contain no organic mattera substance of which humus already contain an excess. Barn yard manure also,
injures the texture of vegetable soil
It is useless to the manure heap for feed sceds bill be destroyed at the fermenting tempera ture, and a h.gher temperature results in a great loss of ammonia, which escapes in the form of a gas, and can readily be recognized by its
strong odor.


Dise Harrow and Seeder. One of the newest introductions in the line Harrow implements is the Corbin Steel Disc made by the St. Prescott, Ont. The accompanying illustration gives a good representation of its working, but oes not show the seeder attachment. The wheels or discs, sharpened at the outer tongue of the harrow, but in an outward di rection, and a greater or less slant may be given them according to the nature of the work to be done. By this arrangement, the soil is sliced and turned over in small furrows, co... pletely covering the seed any depth required. The discs may be adjusted in such a manner that the implement will work as a harrow or a cul tivator, and in some soils it will serve the pur pose of a gang plow. The discs are concave in shape, are made of steel, placed six inches part, and form the the then sit does thorough work in slicing and pulverivi
sod, and cannot therefore speak from exper ence, but we see no reason why it should not do thorough work on sod fields.
gricultural Affairs in Manitoba and the North-West

The drooping spirits of Manitoba farmers, aused by a succession of frozen crops, have been ived this year by the absence of frost. armers are more willing to attribute this result bad farming than to the gods of the weather. Last year the frost gave them a lesson on early sowing, this year a dry season lias given then n emphatic lesson on good cultivation. Afte ach a dry seasonas the pastit must be admitted if it never was before, that the soil of Manitoba one or worderf, it must also be admitted that ood cultivation pays here as it does in Ontario The farmers of Ontario would not have had The farmers of Ontario would not have had a
crop worth harvesting if they had had such a dry season as we have had here. In some of thedriest districts where cultivated, we have 20 bushels per acre. But in the same districts I have seeu fields adjoinpoorly cultivated or poorly cultivated of years, giving only eight bushels an acre This shows alike the wonderful fertility of the soil and the impor tance of good cultivation. Despite the dry sea. son, it is estimated that there will be a larger
quantity of wheat marquantity of wheat mareted this year than any
previous seáson. This is are for by the acreage being larger than mpy soils, and that it cannot be echpsed are in the days of good crops. It is expectell to anxious that farmers should see it tested, be- have a good effect on the trade of the country. lieving that actual testa will popularize it more The wheat market is now open. The following thoroughly than any other method. shows the prices paid by the Ogilvie The seeder attachment can be speedily placed Milling Co. for No. I hard, at different points The seeder remod without the use of wrench or hammer. It sows all sorts of grain broadcast, and the harrow covers it any desired depth. We did not feel perfectly safe in recommending this implement to our readers without first testing it ourselves. We took it to a ield where the soil was a sandy loam. The ground had ther ore oral by the heayy rains, and was densely covered with Canada thistles from six to eight inches high: The harrow tore up the ground three and a half inches deep and "yanked" out nearly all the thistles. We then moved to another portion of the field-on the side of a steep declivity, where the soil was a stiff blue clay, which had been plowed a few months be ore, and there was a large number of hard lumps. The harrow pulverized the ground put on ranches near Calgary this summer; be geed bed. We have not seen it work on plowed made to this number before the close of the
season. The ranchmen to the south of the boundary are looking with longing eyes to the Canadian territories, and many are pulling up stakes and betaking themselves to what they onsider our superior ranching countr
Where is to be the market for this stock? is a question agitating the country at present. It is felt that the market for ons is of the North. mett and it is broadly hinted by the westerners that if Winnipeg wishes to retain that distinction she must needs be up and doing, or ome other enterprising town will grasp the prize. Undoubtedly there will soon be an unlimited supply of stock available, and it will be
a boon to whatever locality it centres at.
The dairy interests of Manitoba have certainly not been neglected this summer. The Department of Agriculture here engaged Professor Barré, late of the Ontario Agricultural Col lege, to travel through the country and deliver lectures and otherwise myteries of dairying Prantorá has been traveling the past several reks, but the result has not yet been made weeks,
The Manitoba Dairy Association, recently rganized, has now been established on a sound business footing. Mr. Wm. Wagner, M. P. P. the butter king of Manitoba, is president. Mr. Wagner has made a study of dairying in this country, besides having a thorough knowledge of dairying as practised in Denmark and Ger many, he being, if I am not mistaken, a nalive f the latter sountry. A meeting will be held n the 30th inst., when association we decided upo
The ending 810,000 will be givi Sept. an nding 1 note

The Roçk wood Dairy Co Butter is bei
from Manitoba
Mr. Waldock reeeives 4,000 pounds milk pe
day for his cheese factory at Shoal Lake.
They say our representative, Capt. Clark, putting in good work at the Colonial.
The Hudson Bay Co. have erected a large elevator at Winnipeg, at a co capacity
D. Harrison, a large land owner and prac Agriculture for the Province
Agricultars frone Province
graphs that flour made from Manitoba whea has been awarded the gold medal at Amster dam.
About 20,000 head of cattle have passe through Winnipeg this season, mostly from On tario, for the ranches of the West
The Home Cattle Co., of St. Louis, have es tablished a ranch of 25,000 head of cattle a Wood Mountain.
Rapid City has given a bonus of $\$ 10,000$ for ction of a roller and woolen mill.
Oats are 30 cts., potatoes 50 cts. per bushe, $\$$ per ton. Lambs, fat, $\$ 3$ to $\$ 4$; breeding ewes, imported, $\$ 6$

Clean and paint y
season's work is over.
Farmers should write more of their experi ence to their agricultural journal

## PRIRE ESSAY

## How to Regulate Fall Work on the

 Farm Most Profitably.by S. A. LAidman, binbrook, ont. greater variety of work has to be done than in the fall. Fall work begins as soon as the harvest is all in, and in many instances before harvest is finished. It ends when the first heavy snow storm falls. Now, it would bo almost impossible to formulate a set of rules by which a farmer might perform his fall work, because there is such a difference in farm Some are large, and some are small. Some $\quad$, in one localicy and so in wher have one kind of si, and sired men, others Some all So the only thing that can be done is to give a few directions that will ap ply to the average farm and farmer, and let all the others select what they can put into practice. But if one rule could be given for all, then here is one that will apply just as well to the small farmer as to the great one ; as well on a"sandy farm as on a clay farm: "Dr your work, or your work will drive you."
Putting in fall wheat is about-the first work to be done on the farm in the fall, and every farmer should be particularly careful, how the puts in this crop, which has always been is principal crop of the or before the seed is sown, so that the rain and moisture may pack the loose ground toether, so as to have a good seed bed for the grain. When the ground is thus plowed before the time for sowing, it gets quite moist, and if there should be a dry time just after the seed is sown, it will germinate a great deal quicker than it would on newly plowed land. There are many opinions as to when is the bes time for sowing wheat, but the best results are had from wheat sown during the first and second weeks in September. If sown earlier, it is liable to get too much top in a wet call, and to rot if there should be a hot, dy should lways be sown.
Immediately after seeding is a good time to hresh, if it has not been done before. Many their threshing till late in the fall. If the thresh early they have longer days for it, it is pleasant getting around, and there is plenty of time left to get the grain to market when the roads are good. If it is left till late in the fall,
then it is almost sure to be wet, cold and then it is almost sure to be wet, corything
muddy, the days are shorter, and everyth is disagreeable. Another mistake that is fre quently made is that of leaving the grain till
bad roads come before it is hauled to market. bad roads come betore is to get it away when the How much better The markets are generally as
roads are good.
good in the fall as in the spring, with the ex ception of oats, and a a great deal of waste and
shrinkage is avoided if the grain be disposed of in the fall. Rats and mice destroy a vast amount of grain during the winter, and, be
sides a man has about six months longer in which to use his money if he sells out in the
$\qquad$ Fall plowing is something that nearly all ormers da, and something that nearly every it should be done. stubble ground should without doubt, be plowel early forl variou
reasons. One reason for plowing early is that it is pleasanter working when everything is
dry and clean, and a person can get more done
in one of the long days at the beginning of the Another thing, if you begin early you are sur of getting it done, but if you leave it till late you may be hindered so with the wet weathe
that part of it will have to be left over till that part of it will have to be left over till
spring, and there is not much time then for
plowing. Early plowing is also a good way to plowing. Early plowing is also a good way to
kill weeds, for as soon as the ground is stirred kill weeds, for as soon as the ground is sirred
the seed will grow, and when the frost comes the seed will grow, and when the frost comes
they will be killed, but if the ground is not
stirred till late in the fall the seeds will not stirred till late in the fall the seeds will no
grow and will remain in the ground till spring grow and will remain in the ground till spring,
when they will grow rapidly and prove very whenblesome. It it well to do most of the
plowing in the fall, especially on heavy lands, plowing in the fall, especially on heavy land
as the frost pulverizes the lumps during th winter, and generally better crops are had from fall plowing than from spring plowing. In the
pring, too, there is always a rush about seed ing time, so that if a man has much plowing to ing time, so that if a man has much plowing to
do then he is sure to get behind with his work and will not catch up again all summer.
time in the fall, and it is always lest to take them up as soon as they are ripe. It is muc earier to find the hills or rows soon after the are ripe than it is when the tops have all died
and have almost disappeared. In a wet fal there is sometimes danger of rotting, but they are dug as soon as they get ripe there is
not so much danger. It is a great deal better to dig them early in the season when they are dry and clean, than it is later on in the season after they have received a good shower or the have stopped growing, for it often happen hat heavy rains set in, and frequently ar followed by early frosts.
Where a farmer has a large orchard he has
to spend considerable time in the falt in picking to spend considerable time in the fall in picking
his apples and in putting them away. This should also be done early so that there may be
no danger from early frosts. The trees will also require some pruning about once a yea also require some perter for this than the fall. In fact, no other time is so good as the fall, for it be left till sp ing the tree has been getting
store of sap ready during the winter, and if stimb be cut off in the spring the tree will have more sap than it will require for the remaind of the tree, and whil consequently throw out
suckers where the limb was taken off. But i the limb be cut off in the fall, the tree will not lay up a larger supply of sap than it require
and no suckers will be thrown out.

Buildings are constantly getting out of re pair, and no time is better for repairing them
than the fall. Stables should all be ready for the animals before cold weather sets in, so that
they will not suffer while the stables are bein they will not suffer while the staines are now is
repaired. If the house needs painting, now a convenient time to do it. If a barn needs reshingling, now is the time to have it done. In farm that can better be done in the fall than at any other time. There are fences to fix. Why not do it now? It will save time in the spring.
There will then be no waiting to get the fences There will then be no waiting to get the fences
fixed up before the horses can safely be turned out to grass. The cattle will not be breaking
holes.
Trees and bushes in the orchard should be dug around and mulched in the fall, and they
will come out in the spring in fine condition will come out in the spring in fine condition
and yield better than those that have been neglected.
Many farmers make a great mistake in let-
ing all their machinery stand out in all the snow and rain of the year. Why is it that they will pay out so much money for implements and then leave them out in all kinds of weather to go to pieces? "A enny saved is a
penny gained," and it is a great deal better "to pear out than to rust out." If a machine is broken just as a man is about done his year's
work with it, why is it that twenty-nine out of every thirty farmers will borrow one to finish with, and then put away their own till they are ready for work the next year before they
get it fixed? Do they not know that it will take just as long to get it mended at one time
as it will at another? Do they not know that
time is more valuable to the farmer in haying
or harvest time than it is in October? Why is or harvest time than it is in October? Why is harrow s standing in the fence corrners till ond
of their valuable horses gets his leg broken, of their valuable horses gets his leg broken,
and then, when too late, they put them in the and then, when too late, they put them in the
barn oot of the way? Doesn't every farmer know that it is oheaper, safor, more tidy, and
in every way better to keep his implements in every way
under shelter?
Late in the fall, just before the snow falls, is a splendid time to gather up all the stray piece
of firewood in the bush. When the snowe fallen much of the wood is covered up, and ca fallen much of the wood is covered up, and can
not be seen at all, and that which can be sen
is in a disagreable state to handle. The time is in a disagreeable state to handle. The time
was when it was not necessary to pick up every
stick that would burn but now the stick that would burn, but now the wood in
most parts of Ontario is getting scarce and it i necessary for the farmer to make his remaining
forest go as far as possible. This he can best
do forest go as far as possible. This he can be
do by gathering up all he can in the fall and
piling it neatly up so that it may be handled piling it neatly up so
after the snow falls.
after the snow falls.
Although the farmer has so much work to do
in the in the fall, it does not follow that he is to take no time for pleasure of any kind. There ar many ways in which he might spend a few days
every fall and be no worse off for it. He might every fall and be no worse off for it. He might
take a few days for exhibitions. He might
take a short time when he gets well on with his take a short time when he gets well on with his
work, and go of to tee his friends. Anything
that will give him a little rest and change, for work, and go off to see his friends, Anything
that will give him a little rest and change, for
the farmer needs a little recreation as well as anybody elle. "All work and no play makes Our year is divided into seasons and every-
thing should be done in its season. The farmer should keep his eyes open and when the time
comes for a certain work to be done he should at once do it. Farmers would succeed a great deal better if they would make a great effort in
the fall and get well in advance of their work the fall and get well in advance of their work. season of the year as many of them are all the
time. They would do well to follow the old time. They would do well to follow the old
motto, "Never put off till to-morrow what can motto, "Never pat off till to-morrow what can
as well be done to day." Yes, farmers, alwaya
try and drive your work, never let it drive you.

Agriculture and Arts Association.
The annual meeting of the above Association was held in Guelph on the 22nd ult. The amount of flattery as to the doings of the Association and as to the wisdom displayed in their system of expenditures. He praised the newly amalgamated Shorthorn Herd Book, stating that they had now the best in the world. He lauded the prize farm scheme, and considered that each was a model farm free from Government expense. He congratulated the Dominion Government for their wisdom in establishing model farms, and for having in-
augurated the Colonial tixhibition, which he considered to be a better method of advertis ing the country than by means of agents and pamphlets. He regretted that beef and cheese had been neglected at the Colonial. He con sidered that their 41st Annual Exhibition wa a grand success, being the best and he praised the Government for the success of the Farmers' Institutes,
In the competition for prize essays, Mr Thomas Shaw took the first, and Mr. Joh Campbell the second on the subject as to the relation of employer and employe on the farm On grases and Mr. Thomas Elmes the second In the sweepstakes for prize farms, Mr. Simp son Rennie, County York, was awarded the first prize; Mr. William Donaldson, County Oxford, the second, and Mr. John Fothergill, County Halton, the third, the competition
being very close. The prizes were in the form
of silverware. of silverware.
Mr. Morgan Mr. Morgan presented the claims of Ottawa for the next Provincial Exhibition. A motion Provincial Exhibition be continued.
Mr. Derbyshire, the President of the Eastern Dairymen's Association, criticised that portion of the President's address which stated that heese had been neglected at the Colonial Exhibition. He corrected the erroneous impres ons which had been circulated with reference to the cheese exhibit. He said the finest heese had been selected and was shipped to Halifax in due time ; but the Government he transportation contract, and accepted teamer took its own time having fint siled to New York with a cargo, and left the chees in Halifax as long as it could get other work to do. The cheese lay there over a month before it started for its destination, the result being that It arrived too late for the Exhibition. He ondemned the Government for not having dispatched the cheese by the Allan or the Dominion line, which would have cost very little nore, and the cargo would have reached ita destination in due time. The oheese, however, fid for 10s. more than the carrent mittle pro ave been gined, for only six feet of spec ould be secured, which were entirely inadequate for the exhibit. He stated that cheese and butter were now being shipped, and were to be placed in charge of Mr. J. W. Robertson, Professor of Dairying at the Model Farm.
A brisk discussion took place on the system of appointing the judges. Some were in favor of one judge and others favored three. It was tated that mostly all the good judges were exhibitors, and it was therefore almost impon ible to get ohice ju ges. $m$ per of the Board apointing a friend as judge, was condemned It was thought by some that the judges should be appointed by a committee of the Board. A vote having been taken, a large majority was ound to favor the three-judge system, but the mode of election was left to the discretion of the Board. Some urged that nothing could be earned by the existing system of judging, for, without a standard, no breeder could find out the judge's estimate of the weak points, and decision of those
uction Sale of model Farm stock
The ninth annual sale of live-stock, the pro perty of the Ontario Government, was held at Guelph on the 23rd ult. The exhibition ground were utilized for the purpose, and the sale took place on the day on which the grealest crow was expected to attend the Proviolal
tion. The asserted live stock polioy of the Ontario overnment is to import his for the purpose of encouraging improvement. It is important to inquire how far this policy is sustained by the facts. How can high class stock be sold cheap at a sale open to the world's bid, where the importations are heralded throughout all lands, where the sale literature is broadcasted without stint,
where the pedigrees fill volumes, where special
railway rates are obtained to draw an immense crowd, and when the sale is specially privileged to be held in the midst of that srowd ? such ciruman ses is to assert that the animals are not knocked down to the highest bidder, To say that the policy of the Government is to sell dear stock is to ignore the wants of the farmers and go iato the useless business of competing with our breeders. But the animals were sold cheap, and were knocked down to the highest bidder. How can this anomaly be explained? There was no flaw in the pedigrees and many of the sires and dams were imported from the most aristocratic herds in Britain.
The stock sold were the offepring of the mam. The stock importation of 1884 , the imported mam themselver being retained on the Model Farm. The sires and dams were exhibited in the tent ${ }^{-}$ and in the auction ring, and their appearance, notably of the beef breeds, gave great promise to the young offspring. With all these immense advantages, why was the sale not a greater success ? Has the Government a bad reputation as a breeder? Have prices fallen flat? Has the boom touched bottom? Have the diseases which infested the Model Farm a few years It has been denied that these diseases existed, and we have been branded as liars for daring to speak the truth. Not only have we seen diseased animals slaughtered on the Model Farm, but their own veterinary surgeon, Prof. Grenside, ably and honestly described these diseases in their annual report. Any farmer who has any doubts on the subject can easily remove them by senaing for a copy of the report for 1883, and turn to pages 174
The only Shorthorn sold was a roan heifer calved Feb. 10, 1886, got by "Rob Roy," and Roy," both in points and pedigree, is a superior bull, and was imported in 1884 by the Government, costing £450, and yet the heifer Lady Belle only brought \$75, sold to John Lamont, Caledon, Ont.
The Hereford bull Conqueror, sired by the famous Lord Wilton, was purchased by the Government for $£ 500$. Two of his bull calves, and Conor and $\$ 210$ respectively. Both dams belonged to the Government importation of 1834 . These calves were sold to H. A. Muntz, Alport, Muskoka.
The Aberdeen Angus Poll bull calf, Strath glass 4th, calved Feb. 19, 1886, was sold to Thos. McCrae, Guelph, for $\$ 160$. This call was sired by Strathglass of the same importation, dam Sybil's Darling, the former having Poll purchased for £500. An Aberdeen Angus old 1 R Shor tred ( Gallowa bull
Drumlanrig (purchased by the Government for £100), was knocked down to Thos. McCrae for \$105. This calf, dam Berta of Drumlanrig, also imported, was dropped Dec. 24, 1885.
Devon heifer Esmeralda, by Rose's Duke,
calved March 26, 1886, was purchased by We calved March 26, 1886, was purchased by W. J. Rudd, Arkell, for 865 . The sire cost $£ 45$. Ayrshire bull Campbell 3rd, by Campbell of Drumlanrig, dam Sensation 2nd of Drumlanrig calved Jan. 12, 1886, was sold to Wm. Kough

0 wen Sound, for $\$ 45$. The sire cost $£ 42$, and the dam e40. An Ayrahire heifer by the same sire, dam Stately 3rd of Drum
James Healey, Strathroy, for $\$ 85$.
Holstatein heifer, Verasina, calved Doc. 5,1885,
was sold to Wm Leeds, Toronto, for $\$ 100$. The was sold to Wm Leeds, Toronto, for $\$ 100$. The
Holstein heifer Mahala, aged four months, was Holstein heiter Mabala, aggod four
Jersey bull St. Mary's Boy, by St. Mary's Joy ( $\overline{35} 5$ ), dam Beauty $o^{\prime}$, the Null, calved April 6, 1886 , was purchased by Chas. Cumming,
Jorsey heifer, by the Aprib,
Troy, Oat., for $\$ 12$.
Sorsey heifer, by the same sire, was sold to S. Fraleigh,
Ont for 8120 . The sire cost $£ 45$.
Ont., for $\$ 120$. The sire cost $£ 45$.
Guernsey heifer calf, Goldleaf 2nd, was auctioned to Thos. Ballantyne, Stratiford, for \$85. The sire cost 550 .

- Four fat steers, Hereford and Shorthorn grades, average weighton Aug. 1st, 1637 pounds, sold for an average price of
7 In oents per tit. live-weight
${ }^{7} \frac{7}{8}$ cents per tit live-weight.
A number of grade cows that gave a daily mer sold for an average price of $\$ 24$. These mer sold for an average price orted bulls, and cows were served iy the
were probably in call.
The offspring lambs of the sheep importation of 1884 were also sold. The following prices of 1884 were also sold. The following prices
were paid for the imported sires and dams :Lincoln ram, $£ 30 ; 3$ Lincoln ewes, $£ 10$ each; ${ }^{2} 2$ Cotswold rams, £23 and $£ 30$ respectively ; ewes, £5 each ; Leicester ram, £50; ewes, £ 6. Sd. each ; Highland ram, $£ 10$; ewes, ${ }^{\text {£2 }}$ 103. each; Cheviot ram, $£ 10$; ewes, $£ 2$ 10s each ; 2 Oxford Down rams, $£ 20$ each ; ewes, £10 each; 2 Hampshire Down rams, 535 and $£ 40$; ewes, $£ 6$ each ; 8 Shropshire Down rams, $£ 65 \overline{5} \times 35$, and $£ 10$; ewes, down rams, An, the following figures at the sale : 2 Logicester rams, \$10 and $\$ 15$; ewe, $\$ 13$; Cotswold ram, \$17; ewes, $\$ 16$ per pair ; Lincoln ewes, $\$ 11$ per pair ; Highland ram, $\$$; ; Oxford Down ewes, $\$ 22$ per pair ; 4 Shrophire rams, $\$ 40$, $\$ 16$, $\$ 19$ and $\$ 17$ respectively ; ewes, $\$ 52$ per pair.
Compared with the advertising advantages. of the Model Farm, and the larges sums of mones squandered in printing pedigrees, etc., these figures should be regarded as discouragingly low and unproitable. Why should there be such a rast difference between the prices
the imported stock and their offspring? Possiby the mania for imported stock still continues, and the value of home bred animals has not yet been realized. This fact is certain, that our
Government as a a speculator in live-stock is a disastrous failure and should be invited to retire from the busiues. If any farmer or stockman has gained anything by the covernivas loss, had over and above those obtained from private enterprises. As an educational medium, why should not the government patronize cur own breeders, and purchase stock from them instead of making huge importations at an immense loss to the country? We await with curiosity the sight of the next importation
In the dairy breeds, are the prices receive any indication of their relative merits? Certain. ly not. The Holstein did not belong to the Government importation of 1884. The figures given striningly thastrate
We cousider that the Ayrshire brought very
low figures compared with the intrinsic merits
of the breed. In the breed of sheep the figures are more natural.


## The Holstein-Friesian Herd Book

 Controversy.A very unpleasant collision took place at our leading exhibitions amongst two sections of ou
Holstein breeders, which arose from the regisHolsten breion this breed in Holland and American herd books. It appears that the Americans hegister in their Holstein. Friesian Herd Book names and numbers from the Netherland Herd Book, but the animals must be black and white, no other colors, though the pedigrees be equally pure, being admitted for registration The Holstein breeders in Canada have made a rule of registering their stock in the America Herd Book, although the fees are high, and it costs $\$ 100$ to become a member of the Association. Mr. John Leys, however, a Toronto lawyer, and a breeder and importer of Holstein cattie, tions, none of which were registered in the tions, none of which were regly three were
American Herd Book, and only registered in the Netherlands. He showed by certificates that the sires and dams of his stock were registered, the offspring being therefore eligible for registration, although, according to the rules of that country, no bull can be registered under one year of age, and no female until she has dropped a calf. These rules, he claims, barred him from getting his stock registered at the time the importation was made, but he confesses that they might have bee registered since that time. In competing for that the shall be as ble, an these grounds the other Holstein breeders claimed that Mr. Loys' Holsteins were not eligible for competition. They also asserted that the managers were partial to Mr. Leys on account of his being a man of influence. The judge of Holstsins at the Industrial, a man brought from New York for the express purpose of judging, strongly favored the parties who registered in the American Herd Book, it being, of course, his interest to draw as much patronage as possible. The stock committee de cided that Mr. Leys had a right to compete for prizes, which annoyed the onher bres, and first they refused a bring thers consented to compete. After the judging was over, their disontent still continued, they declaring that they would not exhibit another year, and demanding that no Holeteins should compete for prizes unless they were duly registered in the American Holstein Friesian Herd Book.
These circumstances show the necessity for establishing uniformity in the rules pertaining to the registration of all breeds. It seems egard to the Holsteins, and a tight wall of pedigree is being built around the Shorthorns. If Canada is not able to support a Holstein register, then it is important for us to know whether we are to be rulod by the absolute adopt the Netherlandish standard
dopt the Netherindish standard.
the matter, and suggest some method of uso in ing further collision.

## Grand Experiment in Farmers'

 OrganizationsOf all the agricultural experiments that have ever been conducted in Canada, the one instituted by the Dominion Farmers' Councli is the most practical and gigantic. It will solve a great problem. It has been stated that farmers can never eileple can, owing to their and professional people can, owng has their isolated condicl. Tested, and it is hoped that the present experiment will be founded on sound principles. If farmers do not take ad vantage of the immense inducements now offered them, the experiment will prove beyond all likelihood of doubt that they prefer bondage to freedom, that our agricultural in terests are to be made subservient to partyism. The auspices under which the Dominion Farmers' Council has been established is a guarantee of the honor and independence of that body and of the sacricices which in ready to make in the incersts of the farming community. Those wispute these facts. It its probericit faith in the success of its enter prise, providing our farmers manifest some prise, proving for their own interests. It will aim to aid, and not thwart, all individual enterprises which tend to our agricaltural prosperity, and, although "Self-reliance" will be brilliantly displayed on its banner, it will readily co-operate with any organization, pab lic or private, which adopts the best interesta of agriculture as its standard. The Council, considering its youth, has already accomplishe much, although the results of its labors may not yet be fully experienced, and what it may yet accomplish is ably essay by Mr. W. E. Marshall, which appeared in our last issue. It is quite certain that an progressive farmer of honor, inteligence and independence can raise any objection to the
scope of the Council, and any man who takes scope oftion to its principles has not the welfare of our farmers at heart. Its members are successful, intelligent and progressive farmers, and there is not a question in the science or practice of any department of husbandry that cannot be radically and exhanstively discussed in debate.
Many organizations, even when their mem bers have been aggregated in large cities, have failed for want of an efficient organ to expound their principles, and many have bankrupted themselves in their efforts to support an organ
Yov, the free, independent and self-riant farmers of Canada, have at your command one of the most powerful organs in the Dominion and if you do not now seize all the privilege that have been offered you, you will be proof against organization, against your own inter ests, and against those of your posterity.

There are various causes of abortion in mares amongst which may be mentioned:-Violen exertions, colic, violent external injuries, heroi medicines, rancid oil-cake, musty food, mpi water, large quanticies of the ceived an injury or if an exciting cause is present, camphor, given in small doses (one present, camphor, given) with opium, may be given two or three times daily for one to three days as a preventative.

Oст., 1886
THE FARMER'S ADVOCATE.

## h

 sever will solve ated tha to the has ne roped thatunded on $t$ take ents no hey pref ultural i partyism.
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More than the usual amount of growling was udible amongst the stock exhibitors. The better. In fact, they knew too much. Al though not knowing enough about the intrinsic merits of an animal, they knew too much about the organization of rings-to the detriment of the "small" breeders. It is strange that such complaints made from year to year do not result in the lessening of the stock exhibits, and yet the exhibit this year was superior to any stock display we have ever seen in Canada. The hreats about the discontinuance of the exhibits pize inducements being too execution, the wre less, the stockeng too great. If the prize oek greater advantages by means of sales, To manufacturers of agricultural implements and machinery receive no prizes, and yet their exhibits are grand ; they attend more closely to their business than the stockmen. The latte are very negligent in this respect, although they are slowly improving : most of them now have advertising cards connected with their exhibits, although the owners themselves are usually found wanting. Thesheepand swine breeders ar their business, both theib methods of pushing usually missing, and the horse breeders are littl better. Prizes cannot be given for implenent because there is no standard for judging. There is no standard for judging stock, and yet prize are given. Until this defect is remedied, the growling must continue.

Prof. Arnold, writing of English dairies, says: I have seen but little of England, but so far as I have seen, the dairies are made up almost exclusively of Shorthorn cows, without record, most likely, good looking animals and rather large-too large, it seems to me, for the or seventy cows, said to be a good average dairy, has a record of 26 to 27 lbs , of milk per day, and an average weight of 1,100 to 1,200 lbs., with an average cost for food of $\$ 1.67$ per week. When to this is added labor and th payment of a heavy rent, the milk will have cost over a dollar per 100 lbs., nearly all it will bring when sold either as milk, butter or cheese. It strikes me, here with even more force than at home, that more milk and less beef would pay better, and that our good cousthat their hass is greener and more succulent than ouns, from having a moister climate, will have a hard struggle in competing with the world outside of them, in the production of butter and cheese, until they co-operate in their manufacture and abandon the effort to do a double business in producing milk and beef out of the same food and in the same body.

In settling the merits of a stallion, an im portant lquestion is, What percentage of foals does he get? The question is not easily answered, and the truth does not generally proximate the facts. The highest average we have seen, taking a series of years, is about 80 per cent., but there have been averages as low as 40 per cent., with only $33 \frac{3}{3}$ per cent. of live foals. It is probable that, in some calculations, the fault was more in the mares than in the stallions.

## §oulfrg.

## Feeding for Eggs

A writer in the Working Farmer gives the owls for producing egrg, or for fottening poses:
Hens cannot produce eggs unless their feed contains the elements of which the egg is composed. The kind of feed that is offered to hens must be determined by the object to be attained in feeding them. Hens intended for the market hould be fed that kind of grain which is known to contain a large percentage of the fatty stances And a fair share of aibuminous subfed on that kind of grain which containg ege producing elements.
In addition to the
In adaition to the essential quality of albulaying hen requires an extra amount fowls, the -the white of the hen's eggs being about welve per cent. of albumen-and this must be urnished in her feed. By referring to a chemical analysis of the different cereals, it will be seen that rcorn contains the greatest amount of datty substances, while wheat contains a large fatten hens, therefore feed corn. eggs, feed wheat. Meat once a day, in winter, will prove beneficial to laying hens.
I allow my hens to have free access to troughs lways kept well filled with wheat screenings rom the mill. If allowed to choose their own me for eating, hens will eat often but little at time-never too muoh. Chickens should be urnished with plenty of limestone gravel, ome say pure water is essential to laying hens, prefor to give them milk, as that fluid not Iributes albumen, which their food, but also con of the egg.
Of course the kind of food, when there is not much variety, will have a special effect on fowls, nimals or men ; but we doubt whether this t, anselecting fatty oily grains to produce at, and other grains containing albuminoids a rule which sagacious poultry breeders will enerally heed. A far botter rule, in my judg. nent, is to let the flock select their own food far as possible-that is, let them have access them have all they will eat of it, and "album noids" and the "fatty and oily substances" which it is deemed they should possess will not be slow in forming part of the chicken economy. The idea of feeding wheat as a specialty for eggs is probably about as correct as feeding egg shells to produce other egg-shells. Some think it extremely important that lime, in the form of oyster or clam shells, or of pounded bones, should be given to fowls, or they will lay softshelled eggs. These substances make good
grinding materials in the operations of the grizzard, but whether, if digested they of the the form of egg-shells more readily than they assimilate to flesh, and feathers and bone not demonstrated, in my judgment. But if one article of food is a specialty for a certain part of the fowl-the egg-shells or the albumen,
for instance-then we should know what to for instance-then we should know what to
feed to produce feathers, or the horny material which enters into the beak and claws, or the winte
skin, or the eyes, or the intestines. Some Brahma chickens have a ridiculous habit, after parting with their down, of running about several weeks stark naked, or nearly so ; can. at the right time or something else to pries them against the heat or the cold ? to protec of course, is in the negative, and we strengly believe that the same is true as to what food will operate as a specialty for eggs or fat. A fowl's gizzard is a chemical laboratory, in which the nature of things is very materially and rapidly changed and appropriated to purposen which we cannot know very definitely. Fowl eat some things which, if they consulted our tastes, they would be sure to discard-things Which cannot be mentioned always to ears polite, trace of them in the egge or the fesh best rule is to feed them what they like and plenty of it, and that of course includes a larg variety, Let them choose their food where it is possible. They certainly tire of special articles when confined to them week after week, just as human beings do, and it is then that hey go to eating eggs, or feathers, or even each ther's flesh, and disgust their owners by refusing to lay eggs, or to grow large and fat. It is them a variety to hose from stand ; but give known tastes to an intelligent extent, and that wonderous internal manufactory to which their food is consigned, will, as a rale, not fail to build up the hen in all her departments to the full gratifioation of her owner.

## Timely Hints

See that all your drains are now in good run. ing order.
Don't spare axle grease if yoú have much eaming to do on the muddy roads.
This is a good time to start a compost heap. ceep piling up all winter. eep p/ig ap all winte
Now is the time to gather up all the bones lying about the premisea, and convert them inmethods often detailed in the ane If you hord for your of your family, keep your surround and that your family, keep your surroundings clean vegetable matter are found in the cellar or around the house.
In deciding upon the fields to be plowed in the fall, bear in mind that stiff soils are most benefited by fall plowing, the ground being more exposed to the action of frost. Any field infested with weeds, however, no matter of what class the soil may be, will be benefited by early plowing and late plowing, and plowing ad cultivating all the time.
It is frequently urged that the fall is the busiest season of the year, because there is so uch threshing to be done. If something must What shall that something qe Th arise he work is the plowing, and no rule hid down as to which should be id the the the thresher or the plow. Get both done possible, but it is usually preferable to give th the more rest. Amongst the mos winter

## (3arden and (S) rchard.

## Papers for Amateur Fruit Grower

 XIII.(By L. Woolverton, Grimsby, Ont.) arapes.
Among the dark grapes
the Concord is still the leading and most reliable variety. Indeed, like the Wilson among strawberries, the Baldwins among apples, and the head of the list of grapes both for home use and for market.

## se and for market.

ind will produce as proved that any other Cill produce as many pounds per acre as concord. The other day we counted no less than seventy beautiful clusters of fine grapes on one of our three year-old vines ! No doubt it was a mistake to permit it to carry such a load of fruit at that age ; indeed, three or four bunches is the regulation amount for such a young vine. But the thinning was neglected when the grapes were smail, and later in the season it would he same good, because in the production of froit But this is only an example of what its bearing qualities are, as acknowledged by all grape growers. It will more often need thin ning out than it will deserve blame for short crops.
Another great advantage which the Concord has over many other varieties is its compara tive freedom from insect enemies. The dreaded Phylloxera, an ugly but very tiny louse which subsists upon the root of the grape and which has so derastated the vineyards of France, is said not co The Thrip, or Grape-vine Learhopper, is is very troublesome this season in many sec tions ; but the Concord and other varieties of the Labrusca family have such thick, stout leaves, that they are able to resist the ravages of the Leaf-hopper better than such delicate growers as the Delaware, Clinton, Salem, etc.
Neither is the Concord so subject to the mil
dew and the rot as many other kinds.
For general purposes, then, in the family garden, we commend the Concord as the one most certain to give satisfaction in respect to both quantity and quality of any dark grape in the market, no malt claims may be.
But in planting for profit there are other consmall a price to get for luscious Concords, and that to be lessened by express charges, commission and baskets. For this reason we look about for some varieties less commonly grown, that will bring more money.
The Moore's Early is sustaining its reputa. tion as the earliest black grape of good quality, ripening in the Niagara district about the lst of September, or about two weeks before the Concord. The Champion is falling into disgrace, it is so sour, and Moore's Early is driving it out of the mar it, growing even larger than that is claimed for it, growing even larger thas, certainly bringing a better price. In bearing , ualities, however, it does not inite equal the yaulities, how
Concord.

The Worden is a grape very similar indeed to
the Concord, so similar that many people cannot distinguish the two. This grape is claimed by Mr. T. C. Robinson, of Owen Sound, to be the very best black grape for Canada. Certainly it is more desirable for those parts Canada where the Concord to ripen.
These are the three leading black grapes, but if another is needed, we would add Rogers early as the Concord, and of larger size.

## Of the

red grapes,
I would name Lindley (Rogers' 9) as the handsomest and most delicious red grape of reliable character.
A newer red grape, and one very delicious for home use, is the Brighton; it is larger than ley. The Delaware not so large as the tirst and chief among the red grapes, but it has now largely given place to the varieties mentioned above. There is perhaps no variety so infested with the Thrip as the Delaware. I was walk. ing through a friend's vineyard the other day, and was amazed at the dense clouds of these little insects which arose in my face from the rows of Delaware $I$, much upon examination, and the crop ripening weakened in growth, and depe crop
white grapes

Of these there are at least two or three that are prominent. Every year gives an increasing weight of testimony that the Niagara is no humbug, but destined to hold the position claimed for it as one of the most reliable of white grapes. It ripens as early as the Conord, but some say it is not quite as hardy. Mr. A. M. Smith, S. Ca He Industrial Exhibition in Toronto this fall, which deservedly atracted a grest degl of notice.
The Lady is also an early and reliable white rape, large and delicious. It ripens before the Niagara, and is most desirable for many places on that account.
I think that any one choosing from the above list for either his home garden, or for market, will get much satisfaction from the result, and be able to furnish his table with delicious grape of three beautiful shades of color from Septem ber to Christmas.

Prof. Budd, of Iowa, tells of a row of chest nut trees planted on the old homestead, which were started from nuts plante els bear ago. When nine yes.
Mr. Roe, the horticultural writer, one Octo ber day took a stone pot of the largest size and put in first a layer of gapes, layers of grapes and paper until the pot wa full. The grapes were Isabellas. A cloth was next pasted over the stone cover, so as to make the pot water tight. The pot was buried in a dry knoll below the reach of frost, and dug up again on New Years. . The grapes looked and tasted as if they had just been picked from the vine. The fruit must be thoroughly ripe and dry when put away.

Ontario Fruit Growers' Association.

## The annual meeting of the above Association

 was recently held in Toronto. The President's annual address was read, and officers for the onsuing year were elected.It will be remembered that the President, Prof. W. Saunders, was appointed by the Government to take charge of the Canadian ruit exhibit at the Colonial Exhibition. Most of his address pertained to his experience and observations with he bad conthe fruit collection laborious series of experiducted a long and laborious series of experi ments in preservigg retain the colors, and had met with almost entire success. Whitish colors met with almostily, but there was a difficulty in getting a fluid that would prevent red from turning dall. He had made enquiries from leading chemists, physiologists and botanists, but he obtained little benefit from their answers. More than one half of the fruits exhibited were from Ontario; the samples from Australia were fresher, its fruit season being in March, but these from Canada were betw colored, and more highly flavored. It was astonishing how much anada; the English could England con orat such fine specimens grew out of doors, and this idea became so prevalent that he found it necessary to post up a notice to the effect that the fruits were grown in the open air. Our fruit business would greatly increase if these erroneous ideas about our climate were removed. Our fruits sold there at prices which would be remunerative for our fruit growers here. The varieties which he had succeeded in preserving were:-Baldwn, Northern Spy, Canada Red King, Wagener, Golden Russet, Roxbury Russet, English Non pareil, Seek no Further, Mann, Vanbertwig swaar, Phomix, Ben fruits would be made at Further selectionitions, notably at Montreal, our leading exhibitions, 1 Toronto, London, shipments to the Colonial would be made from time to time under the charge of Messrs. Allan and Demsey. The President spoke of his trip through various parts of Great Britain, and in comparing the general intelligence and skill of our farmers with those in Britain, he maintained that we were not behind.
Mr. Saunders resigned his position as President of the Association, and the Vice-President, Mr. A. McD. Allan, Goderich Ont, was elected President. The resignation of Mr. Saunders will be a heavy blow to the Asoocia in, baris consoling to learn that Mr. Alir. The Provpetent to fill the props a debt of gratitude for ince owes Mr. Sa thusine which he has disthe abilit growing interests. He is play only skilled horticulturist, but also a practical entomologist and chemist, which sciences he has greatly utilized in the promotion of our horticultural affairs. To these distinguished accomplishments he adds sound judgment, an affable nature, and an honesty of purpose, which eminently qualifiy him to the general favorite in all the circles in whis he is personally known.
Another important change in the Association has taken place. Mr. D. W. Beadle, Secre-

THE FARMER'S ADVOCATE.
tary, and editor of the "Canadian Horticulcurist," who has creditably filled these offices for many years, also leaves belind a vacant chair. We need not waste words in introducing the new occupant, Mr. Linus Woolverton, M.A., Grimsby, Ont., who is well-known to ar readers by his able contributions which Woolverton is one of of the Adyocate. Mr. honorable and most intelligent ofsive, most growers, and we believe he will fill his office with excutive ability.
Our farmers should bea
Fruit Growers' Association is supported unds from the Ontario Government; and whil we shall do all in our power to promote its terests, believing that fruit growing will long continue to be an important factor in our agricultural affairs, yet the Advocate, as an independent journal, serving all the varied interests of our husbandry, reserves the privil its policy and its Anocation with referen its policy and its expenditures.

The farmer should always watch how the agricultural wind blows. Every boom, every sensation, reacts, with greater or less intensity upon agriculture, and it often happens that booms in other departments of industry pro duce their effects upon farming. The newest sensation is the Colonial Exhibition, and no de partments of our industry have been so promin This was to be expected, for our public expes ditures have always been directed into the channels, our agriculture proper having re ceived but little recognition, and our farmers have not been sufficiently organized to protec their interests and urge their claims. It therefore quite likely that our dairy and fruit interests will receive a fresh impetus, and im migrant capitalists wil these brat departments of husbandry. Fortunately, without depreciating Canada's fitness for agriculture proper, bot dairying and fruit growing are specially well adopted to our conditions, and impetus given in these branches will be the means of bringing us into closer relationship with the world's mar kets - "a consummation devoutly to be wished. soil, and will make ns more exhaustion of ou habits of thought Many farmers will be bend fited by being moved out of the old rut. No two branches fit better together than dairying and fruit growing; for, by liberal manuring an abundance of excellent fruit can be so cheaply produced that canning and eraporating factories will be established all over tho coun try, the products of which will readily find foreign market.

Agents: Agents :
Good men can make more money canvassing for the Farmer's Advocate than at any other occupation. The balance of ' 86 given free to new subscribers. Specimen copies and terms forwarded upon application.
We want a good agent in every township in Canada to canvass for the Farmer's Advocate pecimen copies and terms will be forwarded
upon application. The balance of ' 86 free to new subscribers.

## The 2 fpiary.

## At the Industrial Exhibition

The supply of honey and apiarian supplies in tion, and is year to year attracts wide atten kind not only in Canada, but in the world The building set apart for this purpose was filled to its utmost capacity. The display of honey, both comb and extracted, was good, when we take into consideration that a large portion of this year's crop has left for the Colonial and the latter part of the season's honey orop was a ailure. The amount exhibited was short of ormer years.
The centre of the building was taken up by the exhibits of apiarian appliances, and was far Induatrial Exhibition Cous year. The Toronto gratulated upon the encourane to this somewhat new and important industry. $\Delta t$ the provincial.
The number of entries in honey and some ines of apiarian appliances were more numer gretted that a fair of such importance as the Provincial should select men so in and inexperienced as those appointed for the resent year at Guelph. Men who did not now the difference between a wax and a hone extractor, and probably had never seen the interior of a hive, cannot be expected to be co petent judges of such articles. The judging was unsatisfactory, and especially as to qualit and display of honey
at the western fair.

The show of bees, honey and apiarian supplies the Western Fair, which has just closed here, was larger this year than ever before. About 10,000 pounds of honey were shown, and the largest display of supplies we ever had he pleasure of seeing at one time. There were nost endless quantity of other goods from the mall green cage for mailing to the largest size of honey extractor. The display drew large crowds of visitors, and one man said he had come a good many miles on purpose to see our great honey show. A foundation mill was shown in running order.

## Fall Work in the Apiary

In an article published in the Bee Journal or Sept. 23, 1885, I stated that at the middle of the basswood honey flow I started the build g of several queen-cells. We will now suppose that it is eight days later, and that th If I wish to increase my stock of bees vide the strongest colonies, giving each hive bout equal portions of bees, combs, brood and tores that was contained in the old hive ; each ive is now half full of combs; fill each hiv with brood-combs, and move the original hive 5 inches to the right, and the new one 1 aches to the left of the centre of the old stand They are now 3 feet apart, and both facing in the same direction, and looking as near like the old home as possible, and the old stand vacan noon. In the morning the bees will worter both stands' about alike.
'I lpay no attention
the old queen with them, but open them two days after and find queen-cells started in th queenless one. I then take a queen-cell from my stock of queen-cells that are now nearly ready to hatch, and place it between the top bars of the brood-oombs of the newly-mad queenless colony. In due time I look the colony over, not for the queen, unless 1 chanoe then I mark $O$ K on the res ind $I$ find them hangs on the hive, If no egge are fond I pive another queen-cell, and in due time found search for eggs. It is many times quite difficult to find a queen, but it is very little trouble to look for egge in the brood-combs. Very few colonies fail to rear a queen from the first cell given them. Now, that this work is done, 1 proceed to prepare all for winter.
I now go to hive No. 1, take off the covers, and spread the combs so that they measure take out one or more of the centre to centre; and then all those that have capped honey in them I uncap, and then cover the hive for three days. I work each oolony in regular order, as when I extracted. Then I look them all over again, and if honey is ooming in, I find that all combs that contain no brood in the up per edge are being built out and filled with honey ; but if there are no signs of new honey, then I begin to feed freely at the entrance every evening at sundown, or later; when the comes and soon be if the and filled with should be plentiful, and the bees begin to load the lower portion of the combs so as to hinder breeding, then I remove one or more of the outside combs that are full of honey (and that seldom has much or any brood in it at this late season), and extract the honey and return the comb. If new honey keeps coming in I repeat the operation.
If at any time the honey-flow should cease, then I begin at once to feed, and keep it up during a honey-dearth if 1 had the hive night that I had to take the honey away the next day to make room for the next feed.
Some may ask, why all this trouble? I anwer, it is for several reasons, viz :

1. I find that bees thus managed through
the fall of the year will build the fall of the year will build out the upper portion of the combs (what some call bridging hem over), and a good supply of well cured oney, nicely capped over, is thus placed over he cluster, where it should be for winter.
bees cluster on through the winter, that the separated that large clusters can find are so oom between each pair of combs. The bees are not so much divided. They preserve more of their animal heat, consume less food, and winter better.
2. Bees that find by the above management some fresh honey coming in all through the fall of the year, will keep up breeding until cold weather puts a stop to it, and a plenty of young bees are present in the hive that will be ealthy and vorous, while $W$ batches of On are reared in the spring
On the other hand, if bees are able to gather no late honey, and no feed is given them regu-
larly (as above), they will discontinue the bre ding much earlier, and all bees that go into winter quarters are well advanced in life, and
before young brood oan take their place in the following spring these older ones will have lived out their lite ; ;and as they leave with hive to die, it is soon found depoploses , wees that are a lonely queen and a few rether required animal quite in ereat the chilling of the newly laid heage, through the cold spring nights. This is egget thome cay "spring dwindling," but I think
what $i t$ is no more nor less than the effect of early, discontinned breeding the previous fall.-[IW. H. Stewart, in American Bee Journal.

## (Sarrespondence.

Noticr to Correspondents.-1. Please write on one side of the paper only. 2. Give full name, Post Ofice and Prornce,
tion; but as guarantee of good faith and to enable us to answer by mail when, for any reason, thaty
course seems desirable. If an answer is specialiy requested by mail, a stamp must be enclosed. Unless of generali
ed through the Advocate, as our space is very ed through Do not expect anonymous commumica tions to be noticed. 4. Matter for publication
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ends being open, in which case the postage will onl ends beeng
be le per 4 ounces. 5 . Non-subscribers should no expect their communications to be noticed. 6. N questions will be answered excural matters.
purely to agriculture or agricultural purely to andents wanting reliable information re-
Correspondent lating to diseases of stock must not only give the symptoms as fuly as
animal has been fed and otherwise treated or mananded. In case of suspicion of bereditary diseases,
ange it is necessary also to state whether or not the ancestors of the affected a
In asking questi ns relating to manures, it is In asking duestime the nature of the soil on which
necessary to describe the intended manures are to be applied; also the
nature of the crop.
We do not hold ourselves responsible for the vieus We do not hold ou
of correspondents.


 Quen goes on to state that the best fat animal to
to have been chaned from the
the best fat shorthorn steer or coo of any ane tit this
Mr. Oke not to be allowed to compete for it
 still hold the cup in my possession until won a
second time by some competior under which rule
Lave tion




Destrofing the Roots of Trees.-Will you
Ros

 ground, where it does all the mischief na other fruit
trou the roots of our young appple and
trees, so that the trees die.-G. C., Spallumcheen
[From your description of the animal, we cannot Trom your but we have no doubt that the same
identify it
remedy as is used for the destruction of mice will remedy as is used for She
prove effectual. Profs. Saunders recommends a mix-
ture of white arsenic and Indian meal, one part of ture of white arsenic and Indian meal, one pa two
the former to three parts of the latter. Take the former 12 feet long and five or six inches wide,
boards about 12 foger, forming an angle where the and nail them together, forming an angle where
edges meet. Place this on the ground beside the edges
tree, forming a passage for them to enter at the ends; then place the po.
centre of the passage. 1

Curing Meat.- Could you inform me through
your next number, if a meat hinse buit of bricl

 ing it in the cellar, har, that is too. warm, and the
heeping it in the bar, that is
rats are troublesome. - R. H., Centralia, Ont. [The structure you mention would most tikely be
too damp, which it the great fault of all cellars for
俍 keeping meat. However, if the cellar is thoroughl.
drained and ventilated, it answers very well. The dramied and should be through the roof, and the
ventilation underground wall should be thick enough to keep
out moisture. The best stracture we have seen is out noisture. smoke house. Dried pork packed in
the ordinary smo
onts in one of the granary bins will keep well, and if the oats are placed thick on all sid
it will le proof against all vernim.]




 [We admite yur fuck in attempting to solve the
prollems of furm life: hut do not te discouraced.

ing. Only persevere and you may at all times be
assured of our sympathy and assistance; and we ssured of our sympathy and assila also lend you
belleve that our eorrespondents will and willing hand. Different proeesses of butter-macing
have frequently been detailed in the Apvocate have frequently been detalithod adopted by Miss
but we recommend the mether Smithard, one of the most distinguished butter makers in England. As the detals of her, se send require copy of our last January issue, in which you
you a col will find (page 12) a detailed account of her system We wish you success, and we hope you
pleased to write us again, giving an account of your pleased to wr feilures, as the case may be. The de-
successes or fall successes or fall
mand for first-class butter is rapidly increasing, and we hope you will obtain a price which will remu

When to Castrate a Colt-Breeding from
Mares Affeoted with Heaves.-Will yon please Mares Arecur paper the following questions:-
answer in your
ahat is the best age to castrate a colt? . WWull
What

 2. You will be safe in breeding from a mare that affected by heaves, the comp.
tary ; it is a dietetic disease.]

Worms in Horses. - One of my horses passea
worm about 14 inches long; his is in good health a worn aboungment goes, and working every day.
far as my
Do you think that there sis anthing wrong with
the
 oasocalo you can suggest a
know.-W. W., Craigilia, Man.
LAshes are a good vermifuge; but the usual treat-
ment is first to give a purgative, say one pint of linseed oil, followed by a tonic, a good one being 2
 given in feed every night and
the tonic eight or ten days.]

Fall Care of Bees. - Bee-keeping at this season
requires considerabalo though and study. The care requires considerabie thoupht and stad portion of taime
of bees in the fall take bet a
on com
 tember, the inteligenentec, although the weather is
pare his bees for wint asually any irst move towards preparing for winter
Ab to themove all the frames from the hives that are
is the the not required and contract the brood chamber till
tho sizu renired towiter the bees, so that they will
not be distured in cool weather. Leave frames
 fall
fra
bui forminu an an
and in the
and

 and attend
Lor don.
Special Notice to Correspondents.
We have again recently received a batch of letters asking questions which have no connection with agriculture. The wrters of of our correspondence column. We really have no space for uch matter, and, besides, we desire to confine all our agricultural columns exclusively to agricultura matter, or subjects indirectly connected with the in terests of our readers. We also frequently receiv letters inclosing specimens of grain, weeds, etc., ask ing: us to identify them. We answer such questions with greatest pleasure, but the writers of then letters will readily perceive that the answers mass of as a rule, bencfit the writers, and not he mass ost under the so correspondexts. In some instances we find it bereficial to our readers to get cuts made of the syecimens sent, in which cases the farm depart with description, will appear in our farm dind ment. Our corres an procure

THE FARMER'S ADVOCATE.

This Sousetiold.
Long Life and Heredity.
One inherits from his ancestors, near or re-
mote, more or less modified by the blending of the male and female lines, not only complexion, festures, form, size, intellect, disposition, etc., but tendencies to particular ailments, and even the germs of positive disease.
Consumption can be traced along in some
family lines for family lines for many generations, while in others it is almost unknown. So, too, asthma, gout, rheumatism, apoplexy, constantly re in others. We should expect, therefore, beforehand that heredity would have much to do with the question of longevity, and it is a matter of common observation that it does.
Life insurance companies recognize the fact. Still it has not had the scientific consideratio that it should have, and doubtless will have in time. Meanwhile, it is desirable to accumulat facts.

Says the London Lancet: "It would be interesting to study more closely, in the case of centenarians and other aged people, the ages of Of Sir Moses Montefiore, who passed hi hundrodth year, it says, "One parent died a seventy-nine, one at eighty-three, his grandfather at eighty-seven, his grandmother at ninety-three, a brother at seventy-five, another at sixty-nine, a sister at eighty-four, anothe at seventy-nine, another at eighty-two. Thes nine ages at death give an average longevity of eighty-one years. The first four-thone of the parents and grandparents of Sir Moses-give an average of eighty-five years."
A long-lived anceatry, however, does not insure longevity, for many in such a line fail of reaching advanoed age. Indeed, vigor of co physical law. It is therefore a matter for congratulation if one has inherited the long-lived tendency, but the rich gift should be well guarded, for physical vigor is apt to render one thoughtless of the little things that sap th foundations of the grandest constitutions.
Let him, also, who has inherited but a poor patrimony of health remember that, after all, there By medien to the of heath, self. By obedience to the laws of h

Advice to Stoop-Shouldered People. A stooping figure is not only a familiar expression of weakness or old age, but it is, when caused by careless habits, a direct cause of con. tracted chest and defective breathing. Unless you rid yourself of this croo wour grave. There is one good way to cure it. Shoulder braces will not help. One needs not an artificial substitute, but some means to develop the muscles whose duty it is to hold the head and shoulders erect. I know of but one buH's eye shot. It is to carry a weight on the head. A sheep-skin or pounds strong bag filled with hwt. When engaged in your morning studies, either before or after breakfast, put the bag of sand on your head, hold your head erect, draw your chin close to your neck, and walk slowly about the room, coming back, if you please, every minute or two
to your book, or carrying the book as you walk he musles, whos da hith the hear hot, but with a rifle ball. The bones of the pine and the intervertebral substance will soo accommodate themselves to the new attitude. One year of daily practice with the bag, half an hour morning and evening, will give you oble carriage, without] interfering a moment with yourfstudies. - [Hall's Journal of Health.

The Round of EIfe

 Gazing with joy on its snowb breast,
Till the first star orook from the evening sky,
And the amber bars stretch over the west.
A soft green dell by the breezy shore,

 And the dear olone thale teart can fan fill ; ben
In the days gone by, is spoken still.
A trim-built home on a ahheltered bay;
A wife looking out on the ilitening isea ;
 By the opening door in the falling night;
welcome home and a warm embrace
bright.
An aged man in an old arm-obair;

An old church-yard on a green hill-side,

 A raingow bridqing our darkened pleas.
Are the round of our lives from year
Alexander Lamont.

Entertaining Company. I pray yon, 0 excellent wife, not to cumber yourself and me to get a rich dinner for this man or this woman who has alighted at our gate, cor a bedchamber made ready at too great can get for a dollar at the village. But let this stranger see, if he will, in your looks, in your accent, and in your behavior, your heart and your earnestness, your thought and will, what eo cannot buy at any priceat any village or city, and which he may ravol in orer and ald Certaing lat the board be epread and bed be Certaing for the traveller, but let not the empha. is of hospitality be in these things. Honor to the house where they are simple to the verge of hardship, so that the intellect is awake, and love, honor and courtesy flow into all deed.. Emerson.

Care of Umbrellas.
Ombrellas will last far longer if when wet they are placed handle downward to dry. The the fabric dries uniformly. If stood handle up. ward, which is commonly the case, the top of the umbrella holds the moisture, owing to the lining underneath the ring, and therefore takes a long time to dry, thus injuring the silk or other fabric with which it is covered. This is the prime cause of the top of the umbrella wearing out sooner than the other part. Um.
brella cases, too, are responsible for the rapid
wear of silk. The constant friction canses the tiny holes that appear so provokingly early. ting holes that appear so provokingly early.
When hot in unse, leave the umbrella loose ; when wet, never leave it open to dry, as the tense condition thus produced makes the silk stiff, and then it will soon orack.

## Care of the Hands.

There are not nearly as many seorets in hand treatment as people imagine. A little ammonia or borax in the water you wash your hands with, and that water just lukewarm, will keep the with the water will whiten the hands. Many people use glyoerine on their hands when they go to bed, wearing gloves to keep the bedding go to bed, wearing gloves to keep. the biedding
clean ; bnt glycerine does not agree with every one. It makes some skins harsh and red. These people should rub their hands with dry omemeal and wear gloves in bed. The best preparation for the hands at night is white of egg with a grain of alum diasolved in it. Quacks have a fanoy name for it ; but all can make it and spreed it over their handa, and the job is It is merely white of ege, barley flour, and honey. They eay it was used by the Romans in olden time. Any way, it is a first-rate thing; but it is a sticky sort of stuff to unse, and does not do the work any better than oatmeal. Theroughest and hardest hands can be made soft and white in a month's time by dootoring them a little ai bed.time, and all the tools you need are a nail brush, a bottle of ammonia, a box of powdered borax, and a little fine white sand to rub the stains off, or a cat of lemon, whio wil do evo bettor, for the ad hing. -Scientifc American

Fan Oover por Flower Por.- Very pretty oovers can be made out of the Japanese fans, which can be no cheaply bought. Remove the fastening which holds the sticks together at the bottom, and cut them off close to the lower edge of the fan. Make two holes in the atioks. per end, and the other the same distanoe from por end, fold of the fan at. the top and bottom, and fasten at each end after drawing it up to the right aize to fit around the pot it is to cover. If very fine thread is used, and small stitches taken, they will show but little. Put a coarser thread through the holes in the stick, and tas ton the cover on the pot by putting the thread through the opposite holes and tying it. It it well to nolect the flowers of the plants it is to be color. For the cover of a pot holding a gera nium with bright soarlet flowern, a fan with gray ground, covered with figures in whioh black, blue and gilt predominate, would look bask, but for a rose geranium or an ivy,
batight-colored fan oould be used with good ef
briter bright-colored fan oo
fect.-Agriculturist.
Twing Ball.-A convenient trifle for a housekeeper is a ball of twine fitted in a knitted case of bright coroug children-but woft parlor balls used the through which th whing pares anwinds from the inside of the ball. Suspended from it is a small pair of scissors on a narrow satin ribbon-loops of the same ribbon being used to hang it on the wall, where it will always be at hand when there a parcel to be tied up.

THE FARMER'S ADVOCATE.

## Framily ©ircle.

## SO BLUE

## A Story of a Girton Girl.






 Girton and Nowhim































Notes on Grasse and its Chief Industry.
by wm. saunders, f. r. S. c., F. L. s.
A few notes from this interesting old town, with some references to its chief industry, may possibly prove of interest tosome of your readers. It is a land of flowers, where a large proportion of the perfumes of the world is made, and such an odd, out-of-the-way corner of the coantry rom preparing the sweet scents in which civilized mankind and womankind delight, and it is from this district that perfumers everywhere obtain the chief ingredients from which by skillful combinations their celebrated perfumen a
manufactured. On the main line from Paris to Paris, lies the town ranean shore, a noted health resort for invalid from Great Britain and other countries, where the winter climate is remarkably mild and agreeable. Here a branch line of railway about 20 miles in length brings the traveler to Grasse. At Cannes the chain of mountains which for many miles on either side runs along the seashore, retreats to some distance inland, and th and broader slopes of hill and daw valleys first few miles the general apect of the cor the is rather desolate ; vegetation seems parched and stunted ; even the pine trees are dwarfed and the wayside weeds lack vigor. But soo vegetable growth becomes more luxuriant, fer tile belts arereached, and fields of roses, assmine, mignonette, violets and other flowers are seen on every hand, while groves of olive trees clothe the hillsides, along with plantations of the vine and of the fig tree. As Grasse is approached the valley widens to about 4 or 5 miles, the mountain slopes are gray with olive trees, and nearly the who The town, wit
lies high up the a population of about 12,000 , valley, where the roads and narrow streets are so steep that the occupant of the ground floor of the baok part of a house may often look out of the third story at the front of it, and where the quaint old houses tower up to six, seven and even eight stories high at the front. The route leads through fields and gardens of roses, jas mine, jonquills, taberoses, \&c., up steep wind ing streets and alleys, where long flights of stepa afford short cats from one point to another in greet the eye of the visitor at every turn. Moun tain torrents stream down the hillsides here and there, affording water power for the ancien looking olive mills and means of irrigation during the hot weather for the flower-growers. These streams also fill the public troughs with pellucid water, where crowds of women may be seen washing clothes from early morning until dark. It is said that this town was founded 300 years before the Christian era; it is known to have been an important Roman station, and its excellent water privileges must have been a strong incentive to its early setclement. Nearl mercantile business, and a few hundreds who are employed in the manufacture of olive oil, are engaged, either directly or indirectly, in the flower industry. The shopkeepers display thei wares in the tiniest little shops, in which they have scarcely room to turn about; the hotel are antique country inns, but the air at this season is balmy and delightful, and the views from the upper part of the town charming. There are about 60 firms or individuals in Grasse engaged in the manufacture of perfumea from fowers. Three or hour of thene are ver harvest period here is a long one. It begins in February with the vi, let and the jonquill, which keep the perfume-makers busy until the end o March, when the mignonette comes in, which is followed in May and June by the orange flowers and roses, and in July by the jasmine, then with the rosemary and lavender, which are succeeded by the tuberose and cassia, which

Feep the trade buisy until quite late in the atumn.
In company with my genial traveling companion, Prof. J. P. Remington, I visited some of he principal establishments, where we were to Mr. Warwick, of Warwick Frères, we were indebted for special attention. We found that while most of the larger manufacturers have lower plantations of their own, the bulk of the crop is grown by the peasants and small landholders, who, during the season, bring them arning and drove into the country hoping to ee some of the flowers gathered, but the flowergrowers were up before us, and had their frag rant crops collected and packed in sacks read take to the manufacturer before we reached the ground. Nothing is known here of the novement in favor of short hours for the working man.
It has long been known that fatty substanoe absorb odors very readily and retain them with much persistence. The perfumers of ancien reece and Rome understood this well, and or the purpose of extracting their odor. Grasse fatty substances are largely used for the ame object, and the pomades made their conist of fat strongly impregnated with the odor of flowers, which odors may be extracted from the pomades by exhaustion with alcohol and sed as spirituous perfumes
Pomades are made by two very differen methods, the one by masceration, the other by what is known as the process of enfeurage omades of rose, violet, mignonette, cassia and orange flower are all made by macerating the flowers in fat wan thed for several hours and occasionally stirred, after which it is put under a powerful hydraulio press, by which means the fat is expressed with but a triling amount of waste. The same th is thus treated daily with fresh flowers for from 20 to 30 days, during which time it becomes strongly charged with the odor of the comes s.
flower.
The $j$

The jasmine and tuberose pomades are alway nade by the other process. A large number of rames or "chassis" are prepared, each of which fitted with one pane of glass about $18 \times 24$, project on either side of the glass about 3 inch. nd each side of the glass is coated with a layer of fat about $t$ inch thick. The woodwork of these frames is so constructed that when laid the one on the other they fit very closely, so as to avoid any waste of odor. The freshly gathered flowers are strewed over the fat in each rame in a thin layer and the frames then piled one on the other to a convenient height, the apper and lower frames in each pile being coated with fat only on that bide next to the lowers. Thed by the layers of fat above below them, and after 24 hours of exposure they are practically exhausted. Every morning the trays are examined, the old flowers thrown away and fresh ones put in their place, the surface of the fat both above and below being broken every few days by a toothed spatula, and mixed $\% 0$ as to present a fresh suriace. This process is continued for about thirty days, by which time the fat has become saturated
with the odor, when it is scraped off the surfece of the glass and packed in tin cans, the process being continued with fresh fat as long as the lower harvest lasts. Some of the large
The buildings in which this work is carried on are built either of stone or brick, where the temperature is maintained as low as possible, so as to prevent the fat from begoming rancid. The fat is composed of a mixtare of lard and nutton suet, melted together and carefully of fatty odor. It is then slightly perfumed with orange flower, which is said to aid in preserving it from ohange. The fat is usually prepared during the winter months and stored in cool cellars until wanted for use.
Roses are picked in the bud every morning just as the buds are about to open. They are picked with the green calyx attached, and this appendage is removed in the factories by the women employed there before the roses are reated.
Mignonette is picked before the seed pods are formed. The flowers of the violet, jonquill and
tuberose are picked with the calyx attached, but the jasmine flowers are pulled free from but the jasmine flowers
their calyy in picking.
The following are about the average prices paid for the flowers as they are reeeived at the factories:
Roses, 8 to 10 cents per kilogram ; orange flowers, 17 cents per kilogram ; violete, 70 to 80 cents per kilogram ; jonquill, 60 cents per kilogram ; mignonette, 40 cents per kilogram; jasmine, 50 cents per kilogram ; tuberose, 50 At these figures it is said that the growers can make far more off their land by devoting it can make far more of their land ay dovoting
to flowers than they can from any other crop. A large quantity of orange flowers are used for the preparation of oil of neroli and orangeflower water. To obtain these products the flowers are placed in large copper stills with water ; steam is introduced and the water made to boil, when vapor arising is passed through coolers into suitable receivera. A small quanfity of oll gradually accumulates on the surface time. The water which collects in the receiver is the orange-flower water of commerce. The largest of the rose orop is similarly treated,
and rose water with a small proportion of otto of rose is the result.
Distilled perfumed waters when first made have a rank and rather unpleasant odor, which they have been kept a few quite fragrant after
undergoing this While undergoing this mellowing process it is neces
sary that the jars in which these waters are contained should be uncorked. They are left
either open or tied over with a piece of brown either open or tied over
paper to
paper to exclude dust.
It is difficult to obtain reliable statistics of
the quantity of lowers grown in this district, the quantity of llowers grown in this district, mately correct: It is estimated that the 60
firms or individuals engaged in the manufacture of perfumes in Grasse consume ane mannuly about
$3,000,000$ pounds of reses, 4,000 Oono $3,000,000$ pounds of roses, 4,000000 ponds o
orange flowers, 160,000 pounds of jasmine orange flowers, 160,000 pounds of jasmine,
40,000 pounds of mignonette, 40,000 pounds of tuberose, 200,000 pounds of violet, and smaller
quantities of jonquill and cassia. They also
use large quantities of orange leaves for the quantities of jonquill and cassia. They also
use large quantities of orange leaves for the
preparation of oil of patit grain and ase large quantiles of orange leaves ior the
preparation of oll of petit grain, and immense
quantities of lavender, rosemary quantities of lavender, rosemary and thyme,

from which the oils of these plants are distilled. The aggregate value of the perfumes exported | $\substack{\text { from } \\ \text { ally. } \\ \hline}$ |
| :--- |

gatimuie gitay's department.

My Dear Niegrs.-Again we will take a passing glanoe at the fashions for the coming season, in order to have a better idea of what would be nice to make up with that old dress or how to make and trim the new one.
Fancy woollens for autumn toilets are in great varioty ; stripes, checks, dots and crescents being among the favorites. Dark, leather brown, Russia leather red, most in vogue.
The rough-looking woollen materials The rough-looking woollen materials are more in favor than ever for waiking
costumes, and are seen in plain or in costumes, and are seen in plan of two different shaden of color. These are made very simple. The' overskirt remains open on the left side; at the back it is pleated in full double ploats; in front, pleated across and slightly draped up over. the left hip. The underskirt which shows in the open. ing is generally either of some plaid material or striped ; the bodico
 jacket,
surah.
在 The travelling costume, which is at once the most simple and practioal of the season, is that made of the style of material employed for gentlemen's morningsuits, namely, a thin fancy cloth, finely - checked in black or dark blue and white. The underskirt is edged with a narrow ther Mohair braid or velvet, tunic trimmed or not with velvet and falling at the back in large, straight, full pleats. Plain serge is becoming a popular fabric for general wear, with a little fancy material in combination, or even by itself, with only buttons, stitching and oc casionally a little braid used for trimmings, brown, navy blue, gray, olive, bronze |cloth of various, hut chieflo dark, colors. It is and tan being the most desirable colors. short and very jaunty looking.
These serges are also very serviceable for travelling dresses and cloaks, as they do not wrinkle or soil readily.
A great deal of black and white appear in new cloth, the principal styles being in narrow black stripes half an inch or more wide between, black stripes half an inch or more wide between,
also checks and blocks in black and white, an some very pretty mixtures of the two.
Bodices have a tendency to become more and

$\qquad$ The plastron of striped or brocaded silk over cloth or cashmere dress.
Velveteen promises to be fashionable.
Striped and brocaded velvets will be much employed for dressy toilets |this season, combined with silk repp, plain and corded silks. The jacket of the future is made in roug are of galoon, fur, beaded fringes and feather over the last stitch. and seven or eight years are arranged of dif- $\mid$ plain.


Work Basket.
Knitted Lace.-Cast on 22 stitches; kuit across plain. lst Row-Knit 3, over and nyrrow 4 times ; knit over twice and narrow; knit 8 plain.
2nd Row-Knit 1, purl one, knit rest
plain.
3rd
Row-Knit plain
4th Row-Knit plain
5th Row-Knit 3 threads over, narrow. 4 times; knit over twice, narrow, over twice and narrow, knit six.
6th Row-Knit 7, purl 1, knit 2, purl 1 ; all the rest plain. 7th Row-Plain, knit 3, purl 8 ; the rest plaịn.

> rest plaln. 8th Row-Plain.

8th Row-Plain.

9th Row-Knit 3, purl 8, knit 1, over twice, narrow, over twice, narrow, over twice, nar as all righ without knitting, narrow the last two toso as to form sleeves, are made of fancy woolen gether ; slip the slipped stitches over the last materials in shades of gray and beige; they are $\begin{aligned} & \text { gether ; slip the slipped stithes needle in the } \\ & \text { one by taking the left hand ne }\end{aligned}$ trimmed with woolen braid or fringe to match. $\begin{aligned} & \text { one } \\ & \text { For more elegant mantles, velvet, plush and } \\ & \text { last stitch ; pull it over as in slip and bind and }\end{aligned}$ | For more elegant mantles, velvet, plush and |  |  |
| :--- | :--- | :--- |
| beaded fabrics are employed. The trimmings |  | contiuue until the four slipped stitches are all |
| conter |  |  |

bands.
10th Row-Narrow 2 stitches, knit 1, purl 1, Useful every-day dresses for children of five knit 1, purl 1, knit 1, purl 1; knit the rest

11th Row-Knit 3, purl 8; the rest plain.
12th Row-Plain: commence again at the first row. Table Scarp.-Is made of a long half-width of coarse linen cheese-cloth; each side has an inch-wide hem, with the hem stitch taken with red silk. On each side is a three-inch wide hem finish in the same way. An inch above
the wide hem is an inch-wide band of drawn the wide hem is an inch-wide band of drawn
work, and another the same width six inches above. The space between is occupied by jumble of figures cut from chintz (not thick foliage, circles, diamonds, and all sorts of smal figures being laid on without apparent design, and couched on the edges with gold thread. The effect is quite Chinese and very pretty and rich looking. The scarf is pretty, thrown care lessly over a large picture either on the wall or on an easel.
Curtains--There is no one thing that adds so much to the furnishing of a room as curtains. With a good carpet, nice walls, and tasty ourtains, though you may have niture in your room, it will look quite elegant furnishing than putting all their money into a parlor set, and leaving only enough to buy parlor set, and leaving only enough to buy
dark shades for their windows. Where a house is without shutters, dark shades seem a neces sity; but uglier things could not have been thought of than the present fashionable shade - dark gray and brown. They make the house gloomy within, and look outside as if no one lived in the house.
For shades there is nothing prettier than white, and nothing wears much better. I have not look so very bad yet. The dust slips off of Holland very easily, and if the large brase rings are attached to pull them down with, they can be kept free from finger-marks. But inside the shades some drapery is necessary to give a graceful appearance to the windows, These can be of Swiss, scrim, or Canton flan nel, as one fancies. If the windows are a north look-out, Swiss could be used very well ; these are pretty, made to part in the centre, and edged, with antique or coarse torchon lace, and to rings slipped on a pole. It is not fastened to to purchase the heary, expensive necessary and rings at the stores, if you choose to manufact ure your own. Have a pole turned at the carpenter's a little longer than the width of the window ; into the end fasten a knob, which can be bought at a hardware store, to gether with martingale rings of iron, which can be covered with crocheting in brown zephyr, Sew these at equal distances along your cur tains, and hang them on two large hooks, which can be purchald anly reach the floor; loop them curck a little below the middle of the window with ribbon, and not at the window-sill, as formerly.
For a door, a pretty curtain is made of tarlatan, very full, gathered on a string at the top and bottom ; part it in the middle, and tie back to each side with a ribbon, so that the opening forms a diamond. Inside of this have a red or white shade to draw down for privacy.
A very pretty way to fix a window looking
out upon an unpleasant scene is to dissolve Epsom salts in beer until it is the consistency of
cream, and put it upon the glass with a sponge. It will form the most beautiful shapes-equal to Jack Frost's paintings. This arrangement keeps from view ugly sights, but does not keep out the light.
If the curtains are made of Canton flannel, the trimming should be broad bands of another contrasting color, put a foot from the top, directly across the curtain, and on a line with the window sill place another band. Nine inches, the leart, dges with worsted fringe. With the great adges wance of material, it is very easy in these days to make home beautiful, if one has taste ; and one cannot do that with plenty of money unless they have taste. The greatitrouble with many homes is, there is too much mixture in them. To have everything, one must have a large house; and when people learn to furnish houses according to the house, we shall see more pretty homes. Furnish cottages in cottage furniture, and leave the massive style for Baby Socks.-Cast on thirty stitches on an bory crochet hook, medium size, then after the titches are all on the hook, put the zephyr over the hook and draw through two stitohes or loops at a time until the stitches are all off (same as afghan stitch), next time put the zephyr over the hook once before taking up each loop and knit them until you have taken up the thirty stitches or loops on the hook. Proceed as before. Knit across in this way nine times, thon ther tor ther ther and dorble the leg in the middle and pick ge six loops on each side. You will then have twelve loops knit same as the leg. (This will form the top of sock.) Knit across three times, then at the end where you draw the hook through the loops, draw the hook through the first three loops, then through two, until you come to the last three loops, and draw them hrough all at a time. There will now be ten loops to pick up, then knit across twice, the in drawing the loops trog are all narrowed of but eight stitches, then bind off or draw the eedle through them all. (The top of sock now ${ }^{\text {donene.) }}$
For the bottom of sock join a different colo of zephyr at the back of leg with commo rochet stitch, knit across the leg up the side of top of sock, across the toe, then down the othe side in same stitch. Next time pat the hoo between the bars and knit six times around frn the sock wrong side of and crochet do wo edges tog he bars, and draw the ehyr through to the side next to yourself and through the stitch on the hook without putting the zephyr over. Do so until you get to the last four holes, then put the hook first over one and under one until you have four on the hook, and draw through the four bars at once. Bind off last stitch.
The sock is now complete except to put a row of small scallops around the top of the leg They will stay on better if a ribbon, or cor
and tassel, is run in around the leg.

To brighten the inside of a coffee or teapot fill with water, add a small piece of soap, and let it boil about forty five minutes.

## Recipes

Quiver Preserve.-Pare, core and quarter a peck of quinces, then weigh them ; put the a pecik of quinces, then weigh them ; put the
parings, cores and seeds into a preverving ketparings, cores and seeda into a preverving kit
tle, oover them with water, and boil slowly for twenty minutes; then strain them, put the water back in the kettle and put in the quincee a few at a time, and simmer gently until tender, say five or ten minates; lay them on a dish; when all are done add the angar and a little warm water. Let this boil for a fow minutes until clear, then put in all the quinoem and boil them without stirring until they be hour. Have ready two lemonsaliced thin and seeda taken out; put them in a few minutoe before taking from the fire.
ambrr Pudding.-Mix togther $\ddagger$ pound amber Pudding. - Mix togther pound
sugar and the same onch of batter and breend crumbs. Add 3 egge, well beaten, and 3 tablespoonfuls orange marmalade. Mix the buttor and sugar together, then the egga and breend crumbs, and lastly the marmalade. Put the whole in a mould, cover olosely, and steam 2 hours.
To Krep Eags for Winter Use.-A good method of koeping eggs for winter une is to grease each egg with unsaited lard, or buttor, and put them away, the small end downwarde, in coarse salt or bran.
aunt Kittie's Suet Puddina.-One oup of molasses, one cup suet, one cup raisins, one oup
of milk, two teaspoonfuls baking powder ; add flour till very stiff to beat with spoon ; put in a steaming-pan or floured bag, and steam con. stantly for three houra.
White Cake.-One cup of butter, three cups of sugar, beaten to a cream ; four oupa of flour and half eup of corn starch, added altornately, with a cup of aweet milk, two teaspoonfuls baking powder, flavor to taste ; lastly, the whites of twelve eggs beaten to a stiff froth.
corn bread.


Currant Jelly Pir.-One cup of currant jelly, rind and piece of one lemon, one cup of sugar, one spoonful of flour. Two crusts. Beets and Butter Saucr.-Take two Bermuda beets of medino size. Whin. Boil them forty.five minutes in fast boiling water, slightly calted, which must entirely cover them. Than sorape off the skin, cut the beets into slices, and the slices into strips. Melt an ounce of butter, add to it a little salt, pepper and a teaspoonful of vinegar. Pour it over the beeta and serve,

Flemish Lace and Lace-Makers.
Bruges is a quaint old city, fall of curious remains of the past, with irregular streets of pointed-gabled houses, no two alike in color, size, or shape, everywhere intersected by canals, up and down which great barges move slowly along, drawn by men or boys, occasionally by a weather-beaten bare-footed woman; at every turn bridges maet the eye, and these pazzling for strangers to find their way about. During the winter months a calm, sleepy repose wettles down on the city, but with the spring it wakens into life ; its long straight avenues of poplar and lime trees don their delicate green gormente ; the gardens become gay with flowering shrubs; water-lilies, white and yellow, tall bulrushes, meadow-sweet, and forget-menots deck the wide canals, and all looke bright . to welcome the influx of visitors from all parts of the world, who come to explore the ancient city, to gaze on the old pictures which it treasures, and interest to be found in it. Many of these visitors were attracted by of these visitors were attracted by
the exhibition of ancient and modern the exhibition of ancient and modern Flemish lace recently opened. It
was specially designed to show the different kinds of lace formerly and now made in the Belgian cities, and to encourage the lace-makers by bringing their beantiful work before the pablic.
The laces of Flanders have always been held in very high estimation; indeed, that oountry claims to have invented the fabric. Many varieties are special products of the Bel ian elsewhere, are nowhere brought to such perfection. The thread used in making the fine Brussels "Point a l'aiguille" is only made from flax grown in Brabant. It is span in dark rooms underground, where the air is moist, and one single ray of light is allowed to enter, and fall directly on the thread being spun. So fine is it as almost to escape the sight, the worker being guided by the feel of the thread as it passes
through her fingers. The lace indus try seems to have been at its glory in Belgium try seems to have been at its glory in Belgium
in the sixteenth and seventeenth centuries; and to Flanders, England owes much of her knowledge of lace-making, as the industry was in stance; and trem Belgium in the first in the eighteenth century rivalling in beauty that of Flanders. The principal laces now made in Belgium are Brussels Point, Valenciennes, Point Duchesse, and Torchon. Point Duchesse, called also "Point de Bruges," closely resembles Honiton, the style of pattern and ground perfectly round cushion separately, and are joined together afterwards by the same or another worker. The fine Brussels Point is too delicate a fabric for very useful wear, and from the great expense of making it, the fineness of the thread, the many hands through which it has to pass-each spray requiring several dif. ferent workers to fill in the different stitches it
contains-it must always remain a oostly fabric; except when ordered specially it is seld. Valenciennes teems now more generally mad than the other laces in the towns of Belgium, and each town has its own special variety easily discovered by a worker, who from ex amining the ground can always name the town in which a piece of Valanciennes has been made. That Ypros is form of clear distinct squares upon which the close work of the spray or pattern is beautifully shown in relief. An immense number of bobbins are required in making this lace, the meshes acquiring their beauty and clearness from the number of times the bobbins are twisted. The Valenciennes made in Bruges and Ghent have a roundmeshed ground, in which fewer twists are used, and are not so valuable as those of Ypres and
a flemish lace-maker

as it is gradually worked off the cushion, and the other for spare bobbins and pins. A mall soft cushion is fastened at the top for pins, and a movable piece fits in, which can be used to lengthen the cushion as the worker may require.
The lace-workers complain asdly that their industry is failing in value, that little money can now be made at it; the markets are so
flooded by imitation machine-made laces of floceat bearty, and the fashion as to the make of lace to be worn each season changes so continually, that people-except for very special tinualy, that people-except for very special
occasions-prefer to purchase what is cheap and fashionable, rather than to spend large sums of money on costly fabrios which, in a few months, may be no longer in vogue.

## Tomato Catsup-Tomato Sauce

 The basis of tomato catsup, or ketchup, is the pulp of ripe tomatoes. Many de fer making catsup until late in the season, when the cold nights cause the fruit to ripen slowly, and may of a frost The late fruit does not of a frost. The late fruit does no in its prime. The frit should have all green portions cut out, and be all green portions cut out, and bestewed gently until thoroughly stewed gently until thoroughly
cooked. The pulp is then to be separated from the skins, by rub separated. from the skins, by rub-
bing through a wire sieve, so fine as to retain the seeds. The liquor thus obtained is to be evaporated to a thick pulp, over a slowfire, and should be stirred to prevent scorch ing. The degree of evaporation will depend upon how thick it is desired to have the catsup. We prefer to make it so that it will just pour freely from the bottle. We observe no regular rule in flavoring. Use sufficient salk. Season win and tied in a cloth, and boiled in the pulp add a small quantity of powdered cayenne. Some add the spices, cayenne. Some add the spices,
ground fine, directly to the pulp. A clove of garlic, bruised and tied in a cloth, to be boiled with the spices, imparts a delicions flavor. Some evaporate the pulp to a greater thick Courtrai. The coarse but strong and useful lace called Torchon is much made in Bruges, also thick Guipure ; and in some parts of the town, at every door one may see women and girls busy at their lace cushions, throwing the bobbins about with the most wonderful apiaty, and chanting in harsh, guttural voices, an anything but musical accompaniment to of green lars. The pattern is pricked on a strip to the parchment or stiff material, and given when finished, rot it to less than tive aunes is bought by the shops, direct at a very moderate price. Black Guidirect at a very moderate price. Black Gui-
pure and black Brussels lace are also made the latter is very delicate and beautiful. The cushion and bobbins in use now are the same in form as those used in the seventeenth century The cushion is nearly square, and has two drawers, one in which the piece of lace is pu ess than is needed, and then thin with ness than is needed, and then thin with
vinegar or with wine. An excellent and aseful tomato sauce may be made by preparing the pulp, but adding no spices, and putting it in small bottles while hot, corking securely and sealing. If desired, the sauce may be salted before bottling, but this is not ssential. To add to soups, stews, sauces and nade dishes, a sauce thus prepared is an exellent substitute for the fresh fruit. It should will be wanted at once, as it will not keep long after opening.
Double-faced canton flannel in wine color and olive green is much used fer lambrequing, table covers, curtains for archways and double loorways, and also for windows, but it is liable fade when brought in such close contact usually a band of old gold, feather-stitched on, usually a band of old gold, feather-stitched on
and the edge is finished with fringe or a hem,

२trcle ©om's Department.
My Dear Niecess and.Nephews.-Another month has all too quickly passed away, and again we find ourselves surrounded by the gorgeons tints of autumn, which in the press
of Ootober work we are apt to leave unappre ciated. There are great pattohas of ponappreciated. There are great patches of potatoos to gathered in, and bushels of rosy-cheeted apples to be stored away or marketed. I hope, however, you will find time to have a day's nutting at least-benides the famous fun of the day, you can lay up a store of nuta for winter, and many pleasant memories for the years to come. When the happy Christmastide comes you can orack the nuts and with merry song and laugh add your share to Christmas oheer. Those of you whose privilege it is to go to school, I trust have resumed work in right good earnest, when Do not, as hundreds of others have done, wasite the hours of sohool. Are you not the hope of this fair Dominion of yours? The boys and girls of to-day'you know are the men and women of twenty years hence. Statistios from all colleges prove that a great percentage of the most sucoessful students have been boys trained in country homes, and in country schools, being innured from childhood to rugged habits of life. The other day we heard a young lady (?) whose papa evidently had more money than she had brains, make the following remark. "Oh ! Dr.-is very nice, but his people are just you feel like resenting the insult ? And yet we know that the opinion is one that obtains largely with a certain class of people. Just farmers indeed! Farmers and farmers' sons fill positions of trust to-day which that insipid young woman's brothers (if they are like her) would be proud to hold. Bat position, desirable at it may be because of the influence it gives, is not the true aim in life.
"To live well is to live nobly," and we can live well by doing those daties which fall to our hand at the present time

True worth is in being, not seeming
In doing each day that goes by
In doing each day that goes by
Some little good, not in the dreamin
Of great things to do by and by. Uncle Tom.

## Pazzles. -numerical.

 Not sudaded byro fix $\frac{\text { A period of time now derlive }}{\text { Hrom my leterser }}$, $, 4,6$.e.





 $\xrightarrow{\text { And with me son wifl arree, }}$


3-lludstrated rebus.


Tmer ator frumhane

Speed on the sespons, but tet her bear

Torati! peallar boon of haseven, -Watticer.


Fair ${ }^{\text {Brothent. }}$ -
GHDDEN ADJecrive






"Talent," beautiful and rare ;

The sceneso of two exhibitions show,
They happoned this summer you ali may know.
ADA ARMAND.
 $9-\operatorname{transposition}$

OAllew orf hte rolais ald,
Otta eh ngisp nil ish oatb no eth
10-buried towns. Boynton.
 b- et cennot long remain here, for darkness will
soon set in
c-Our visit we will still prolong, for dear papa is gettour visit we will still prolong, for dear papa is strong.
ge, MANving.
 To levy to e erase.
A play= food.
Grandeur to satise
 The original =to pu
Region to satisty.
Disposition $=$ alass.
To ohout $=$ to leap. A dwelling $=$ stocking Part of a ship $=$
$\begin{gathered}\text { Syncopat } \\ \text { in a conters make }\end{gathered}$
in mishes to be.

Answors to september Pumios. 2-A Alean hhause and smilling face will bring good
Iuck to any place.



5-Ash, Cedar, Larch, Peach, Pine Willow 7-An idler is a watch that wants both hands;
 alternately.
$8-$ Of your gladness lend a gleam
Into souls that shiver ;

Show them how dark sorrow's stream
Blends with hope's bright river.
9-Example is hetter than precept.
9-Example is hetter than precept.
10-" Rank is but the ginnoa-stamp;
A man's the gowd for a' that."

 Aobert Wrison, E. Manning Loulsa Fi Medmond,
Mlice Moran, George S. Smith, Thomas Moorehead,
Minnle Cousins.

## Sleeping Positions.

A medioal paper has a new health-proserving racket,-that of sloeping with the face downward. These plans and specifications for sleeping are getting a little too numeroua. We ways hry to ilve up to them. When $\mathbf{0}$.me tery full and retired from aotive slaughter, shouts that a parson should aleep with his head toward the north, so that the electrio currents will pase through the body on the proper route, we sleep that way. If another mose-grown practitioner, with as good a record for fatality, molemnly asserts that the only authorized and fully guaranteed way to nlumber is with the head toward the south, and gives the same reason as the other, we just
move the pillow aft and turn in. When still another rival of the pale rider with his hack broken by lifting on the rate of mortality, an. nounces that the only way to get along peacefully with the electric currents is to sleep with the head to the east or west, so that they will slide over the body and butt against the headboard of the bedstead, we promptly, even gladly, comply. Every time the word comen ang the line for a change it finds us a ready and willing victim. They are coming rathor could not get through a whole night withont veering around to some new direction or poition. It will soon be necessary to got up three or four times a night and go down and get the mail and wee what the latent chart on leeping is. Some genius will have to bring out a bedstead with clockwork attaohea that will keep it continually moving around, and make it ocoasionally get up on its hind castern and turn a couple of handsprings.

## Dress for Little Girls.

Dr. J. H. Ripley says in Babyland: To got the full benefit of the summer vacaation, little girls should not be dressed every day as though mbryo belles, but their wardrobe should be simple and comfortable, permitting the froest
ction of lungs and limbs. It is not enough that when they return they be "an brown as berries," but digestion should be improved,

## Farmer Joy's "Arrantin'."

 The jolliest farmer was Epbraim Jov Gray-headed and bent, with the heart of a boy.He whisted all day as he rlowed or mowed;
He hailed each He haisteded aalh day as he he rowed or or mowe the row
He petted his cattle and called every one By botted his cattle and called every one
He sang at his miname for thiking, fand the of the fun.
Hitching his hay;
sunny whatever the day
He carried his cream to the nelghboring town;
Three days in the week he rode up and down. Thres daysin or whistling or resting his theam After cilimbing the bills or crossing the strean Withount topping his horses and waiting to or
"Well, nieighor, anythinge wanted my way?
When ". Well, neighbor, anything wanted my
And all of the farmers who plod ded along
With neere amilie or a a note of a song
Who
never found time to Who never found time to get out the "shay."

He was postman, expreseman and messenger, too,
No one cauhht him forgetting athing he could doa
And yound never have guessed he was sixty years And you'd never have guessed he was sixty years If youd s, sen him "a-arrantin'", as he'd been told, Th hen he started his horses apain on the road
His face was so bright and his manners so ga His face was so bright and his, manners so gay,
"The more arrants the better," it seemed he would
say.
How often I've wondered, while thinking of him,
With my heart full of love, while my eyes have Of thenown dim, hend and comfort which he always bore
To the sick and the sorry, the weak and the poor.


An Intelligent Horse and mule. Our Methodist friend, the Rev. Mr. B., told us the other day of a preacher he knew who owned a horse that he had been driving for eighteen years. The preacher told our friend that he had so often driven the horse to church and eft him standing near by that the horse had he begins to neigh, knowing that he is either heing so soing to a neighbor's to going home soon or going to a neighbres dinner. This reminds us of one of aule about 20 years old. The old mule knows when it is 12 o'clock by the sound of the dinner horn, and whenever he hears the horn, if it is a mile away, whenever he herins to bray, and increases his speed with the plow until he reaches the end of the row, and then he stops and refuses to move until the harness is taken off.-[Hawkinsville (Ga) News.

A Fasnonabe Mistake.
He had been to the city and went home brimful of news.
"You 'member the Smiths?" he asked his wife, 'th' Silver Crik Smiths, them as got rich on the'r gran' feyther's money.

Yes, she remembered them.
'II seen 'em. They're way up ; live in a gran' house on a street they call 'thavenoo.' They ride in a double kerriage and have no end of money."
She said she s'posed as much.
"But, dumb sakes ! 'Mandy, you wouldn't want ter change places with her. I see her a
minnitan' I didn't hev the heart to speak $t$ ' her." minnit an' I dian't hev the heart to speak stuck. thing!
'No, she ain't, Nandy, not now. She's bin humbled as a bat."
Blind! She guessed not
"But she is. Fust, she didn't kno me-me
that's rid down hill and played tag with her
when ahe warn't knee-high to a turkey. Then, Mandy, tho' her eyes were wide open, she went rite along thestreets all dressed up in fine close, and a leetle mite ef a dog was leading her along. He was tied to a streeng, and she had h, how'd tother end of the streeng. Now, Mandy, you like to be her ?"-[Detroit Free Press.

## Idleness.

Never be idle. Idleness means ruin just as rtagnation means deoay. You can catch better thinge than early worms by rising early in the morning-something that will color your cheek, quicken your pus, bite as will make break. fast pleaenre dinner a treat, tea a delight fast a plom for supper. Besides, it's only and-no roind that catches the worm. Every one early bird that the benefitit I pealy of. And what the boy learns to love the man will turn to deeper account, while his hay will be better and more abundant than an idler's ; his corn, his carrots and his cucumbers will be finer, better and more abundant, too ; and just when the idle man is thinking that he ought to have a fortune, the early one will be wrapping his up and running off to bank with it. The boy who says it's music to hear the milk-man and chimney-sweep from between the shoets will most likely take to his bed to escape his creditors by-and-by.

## Indecision.

I love her! Words cannot express The joy with which her presence fills me.
TTe soft touch of her hand her dress
A ainst my arm with rapture thrills me.



Fresh as a rosebud newly born Tresh as a rosebud newly born
With morning's dew-dorop still upon it
Graces that ne'er did queen adorn, Graces that ne'er did queen adorn,

I sang to her an old, old song,
(An excellent hint from Coleridge taking)An excelen no whose heart had long
hith one of one
Vith untold love been slowly breaking. With untold love been slowly breaking.
I ceased but though upon her faee
Love, pity, maiden shame were blended,
Love, pity, maiden shame were bended,
Instead of Genevieves embrace
She only murmured, "That is splendid !"
Queen of home arts, she seems to cast
Sunnkine and song round all who meet her.
No rare Madonna of the past
Was ever purer, gentier, sweeter.
A home with her-but no If ear
It cannot be How couli bear
To hear her play, year after year
Her single piece-the "Maidens ${ }^{\text {S }}$, Pracer"?
J. HENRICI.

## Her Weakness.

About forty years ago, Abby C-_ was the Southern city. She had many lovers, and women of every age admired and imitated her There were many prettier girls in the town, many richer and more clever than she. Bu Abby among them was like a queen in her court. Her charm was her excessive gentleness, and the loving grace with which she yielded her opinmoment
It is true that her companion of the nex moment found her just as pliable and ready to take part with them. Friends, too, to whom
she had been confiding and affectionate at chool found themselves wholly forgotten when they met her after a year's absence. But her
strative after they had been together ten minutes.
Abby was not insincere. She felt and meant all the affection which she expressed at the object, whatever it might be, and cared noth. ing for those who were out of reach. She ing for those whe to one man, and afterwards engaged hersur others to become deeply in encourage her and to propose marriage, simply because she "could not bear to hurt them" by showing them that it wasimpossible she should marry them.
After she was married she was by turns a fashionable woman, caring only for dress and amusement, a noisy advocate of reform, and a slipshod novel reader, according as she fell under different influences. Her husband' wishes and tastes were remembered only when he was present. A foreigner of low rank and lower character almost persuaded her to elope with him. Hor husband died and left her with two boys, who loarned to drink, gamble and follow desolute courses unchecked. She "could not be harsh with them leat she might lose their love."
She died a few months ago, and despite all her charms of sweetness but few tears of regre fell on her grave. She left no place enply in the worla. She soul, during her whole color less life. less life.
The character as well as the body need backbone. Do not, girl-readers of the Com-
panion, be deceived into believing that the feminine charm implies weakness of resolu femin
tion.

The Deathless Mother Love. At this time mothers all over the country have put the last lingering touch of grace into the folds of girlish garments. Folded with ut most care dainty gowns and saucy ribbon decked aprons, sent already shining linen back to Ann for an extra polish, "Kate likes them so stiff and glossy," and away down in some unexpected nook has tucked a box of Kate's favorite bonbons, where she will find them and think, as she takes them from their hiding place, "that is just like mamma!" But there is something else hidaen in the great trunk that Kate will not find, though it is hidden every where. In the sors pin in the dainty French slippers that perk up their slim heels French slippes of ploves and softest flannel, not a thread or ruffle but holds the sacred thoughts and tender wishes of that loving mother. Dear ittle maiden, send a thought sometimes to her

Neat and pretty bureau or wash-stand cover are made of scrim or dotted muslin in scar shape, trimmed with deep lace and lined with pink or blue silesia.
Very many are making pretty tidies, or chair backs they are called now, of the pretty cre tonnes so much used. Use three stripes, the centre one dark, the outer two light. Tur the edges, and crochet an edge of shells al around the stripe, making it pointed on the lower edge, and about three or four rows of hells around each stripe. Join together, finish he pointed ends with tasels, and on the back of each stripe to mak it firm.

Oct., 1888
ГHE FARMER'S ADVOCATE.

## Willing.

${ }^{4}$ Physicinans have proverbially hard times in getting the money due them for their professionas services. Here was an instance of good intention:-
A Dutchman who had ran apa large dootor's bill called to see the M. D. concerning it, whereupon the following converration ensued "Goot.mornin", dogtor.
gour faomily $\%$, Mr. Mozenthal. How is your family":
" Protty vell
"Pretty vell ; I gome to ask you sometings aboudt mein bill.
"Yes f" with animation.
know vill you got mooch money, I vants to "I guesu you tage id oudt in der trade?"
"I guess we can arrange that," [cheerfally].
"Vell-I blay me a leedle on that trombone undt I serenadt you more as twendy times !"

## Household Hints.

A bit of soap rabbed on the hinges of doors will prevent them from oreaking. If your pet canary has fits, put a drop of epirits of nitre into the water the bird drinks. Pieoos of oheese cloth make the very best kind of dusters. Cat them and hem them. Stovepipes may be cleaned ing putting a
pieco of zinc on the coals of a hot fire. The pieoe of zinc on the coals of a hot fire. The vapor produced carries off the soot by chemical decomposition.
Hash, to be good-and it can be good-must not stew and simmer and simmer and stew, but be heated through as quickly as possible and sent to the table at once.
When velvet gets plushed from pressare, hold the parts over a basin of hot water, with the linig or drean resume ite former pile will
beauty.
Matches should never be left where rats or mice can get hold of them. There is nothing mice can get hold of them. There is nothing
better to the taste of a rat than phosphorous. Those animals will eat it if they can get $\mathbf{i t}$. $A$ box of matches is almost cortain to be set on fire if a rat gets at it.
The rubber ringe used to assist in keeping the air from fruit-cans sometimes becomes so dry and brittle as to be almost useless. They oan be restored to a normal condition, usaully, by letting them lie in water in which you have put a little ammonia. Mix in this proportion : One part ammonia and two parts water. Some-
times they do not need to lie in this more than times they do not need to lie in this more than
five minutes, but frequently a half hour is five minntes, , but frequently a
needed to restore their elasticity.

## Trying Lard.

When the leaf lard is taken from the hog, it should be placed in a clean.tub. If any pieces are bloody they ought to be placed in lukewarm
water, letting them remain until thoroughly water, letting them remain until thoroughly
cleansed, then drain well and then use with cleansed, then drain well and chen use with
the other lard. The leaf lard can be cut up in pieces an inch square. Have kettle on fire on atove with a little water, to which add the out up lard, letting it heat gradually; stir with a wooden stick (bickory or maple) or a long handled iron spoon. The fat pieces of meat, whi th aro aloo ased for lard, are cut in the same maìner, after taking off the skin, and added to the leaf lard in kettle. The skins should be laid by themselves to be tried out after the lard is
done. While the lard is trying, as soon as the water is all boiled out, which can be told by has a alightly milky appearance) has a silightly milky appearanco) you can begin
dipping off the olear lard and straining it into dipping off the clear lard and straining it into
the vesels ready for ite use (stone crocks are beest). Do not take out the piecos of meat until well done. Be carefal not to let it burn ; it is very easily noorched ; just at the last, when finished, the cracklings should be a light brown color. A good way to straiu is to place a crash
towl over a cullender, dip the lerd into towl over a oullender, dip the lard into it; when sufficient is in it, two persons, one at each end,
can twist the towel until all the lard is can twist the towel until all the lard is out. Put the oraoklings in a vessel, dip out more lard; continue this way until all the lard is disposed
of. Set the jar in of. Set the jar in a oool plave and stir frequently
with the wooden spoon, so as to insare the cool. with the wooden spoon, , 0 as to insure the cool-
ing of the sentre as soon as the outride ing of the sentre as soon as the outside ; this
provents sthe lard from becoming frory in the provents the lard from becoming frory in the
middle; or net the lard in When colld, cut out, plocoe in jers and it melted lard almost cold until it is mooth on it melted lard aimost cold unin in smooth on (linen is the best) over it, with one or two inches of all on top of the cloth; then cover the jur with thiok oloth or paper, set in in a dark, dry place. The web always needs to be soaked in lukewarm water over night, then drained well, after which it can be out up and tried with the other lard. It is uned by the best housekeeepers for olean lard. The skins can be out into piecoes two or three inches square, placed in a large dripping pan and set in the oven to try out, as they are apt to burn or stiok to the kettle ; stir them often, do not let them burn. They yield quite an amount of fat which is always useful in a family; then the ekins thembelves make
good soap grease.-A April Number of Housegood soo
keeper.

## Tombstone Epitaphs.





The sexton stood by a grave newly made,
With his shin on his hand and his hand on the And spade by by the gleam of his eloquent eye
That his heart was instructing his lips to repply.
 Which of us mortals shall dare to say That tour neighbor was wicked who died to-day?
"The longer we live and the farther we gpeed,

"Thereforere $\begin{gathered}\text { good deeds we Inseribe on these } \\ \text { git }\end{gathered}$


Parlor Scrap-Baskrts.-A very pretty and novel idea is to take a bright. colored Japanese umbrella, open it half way, and set it in a very low little socket or tripod; any carpenter will
make one, and stain it to imitate ebony. One make one, and stain it to imitate ebony. One
each side of the fireplace is both pretty and each sid.
useful.
Talee peppermint or spearmint leaves ; wash them and put them intoa large-mouthed bottle; fill the bottle up with vinegar and cork it close. 1y. Let this stand for three weeks, then poor througha a cloth into a clean botule, it through a masiin clot
and $i t$ is ready for use.

He was Competent to Speak.
Bagley-My dear, I think I will take to the
eecture field. lecture field. There is a heap of money to be made in the business.
Mra .
B
Mrs. B. (soornfully)-Indeed! What line will you take?
"I haven't determined. Something about animals would take-birds, for instanoe. hawke, for instance, or owls-anything, Mr. Bagley, that turna night into day as you do." - Philladelphia Call.

Answers to Correspondence.
Timid $\mathrm{O}_{\mathrm{Ns} \text {. }}-1$. As you become older, and as you mix more with strangers, you will be. come less nervous. 2. Washington died in thie last hour of the last day of the last woek of the last year of the last century-that is, he diod on Saturday night, twelve o'olocks, December $31,1799$.
W. 0.
W. O. L. - We advise gכa not to use rouge or anything of the sort, as perraons are not de-
ceived by guch artifices ; and thees celved by such artifices; and those who desoond censurued for their endeavors to strract ettention ; besides which it makees the akin coarrea and if at any time the practice in left off, the person looks prematurely old.
Susie W.-1. No ? When walking with a friend and you happen to meet an acquaintanoe, you need not feel it inoumbent upon you to introduce them. 2. You can ohange the color of flowers, so it is maid, by pouring a amall quantity of hartshorn (aqua ammonia), into a dibb, then place a funnel over it, large end down,
añid into the small end of the funnel insert the cut flower or flowers you wish to ohange.
Enquirbr.-Don Quixote is the hero of a celebrated Spanish romanoe of the name name, by Cervantes. Don Quixote is represented as a "gaunt country genileman of La Mancha, fall of genuine Castilian honor and enthaciaem, gentle and dignified in his oharaoter, trusted by his friends and loved by his dependante," but "so completely orazed by long reading the them to be true end feels himell he belliven on to be the imposible knight.errant called describe, and actually goes forthinto the world to defend the oppresed and avenge the injur od like the heroen of his romanoeos." Ho com pletes his ohivalrous equipment by taking with
him an esquire of his neighborhood,
middle aged peaaant, ignorant and credulous to an ex cess, but of great good-nature. There two
sally forth from their native viliage in tearok of adventures, of which the exotited imaearina. tion of the knight, turning windmille into
giants,
golitary inns int into oastlen, and galleygiante, soiltary inss into oastlee, and galley
slavees into oppressed gentlemen, finds abund
 suffer a series of ridiculous discomiturres, and
areat at ast brought home lise maden to their
rill

 illness, and makes him ronounce all his tollerea
of knight-errantry, snd die like a peace ulul
ol of kinitht-errantry, and di
Christian on his own bed.
Watrrmblon Cake.-One cup of white sugar, one-half cup of butter, one-half cup of sweet milk, whites of four egge, one half tol spronful soda, one of cream of tartar, two scant thirds cup of pink sncar, thirds cup of pink sugar, one furth cup of
hut ter, one half teabpoon of soda, white of two eggs, one tea cup of raisins, flour enough
to make rather stiff?

## Sommercial.

The Farmer's Advocate OFFFCGE,
September has been all that could have been desired by the farmers. Fine warm rains and plenty of heat. This has brought on the fall wheat very fast, and has made the pasture very
fine. In fact we shall not be at all surprisel to see nearly as large a make of cheese in October 28 we had in August. The acreage of wheat sown this fall appears to be quite up to that of last year, if not larger.

## wheat.

The situation and the movement of wheat in the States has been a great surprise to many, and has nonplussed many in the trade:
The weather has been variable in the States the past ten days, but in general has been favorable for seeding throughout the month of September, and reports are that
of winter wheat has been sown
. ing week, the exports of flour fell preced100,000 barrels, but the total, including flour reduced to wheat, was over $1,000,000$ bushels in excess of the corresponding week last year. The visible supply of wheat in this country increased last week over $2,000,000$ buahels. Since July 31st the visible supply has increased about $15,000,000$ bushels, notwithstanding the liberal exports which have been made, and this naturally proves depressive to our home mark in and holds in check the improving tendency in short crops in Europe.
short crops in Europe
Tect to frequent and wide fluctuations, with lower prices prevailing, but the closing rates are above the lowest point ; although 1 lac. below 2 week ago for both October and November. Compared with a year ago prices are 11 cents per bushel lower, and yet some people are not happy because it refuses to go lower.
In corn there has been a moderate increase in the visible supply, and there seems to be less confidence in the effect of the short crop in view of the liberal supplies of old corn which continue to come farkets, Receipts are large, face of deckipg demand continues light and While the sholly confined to the lower grades, The weakness in wheat helps along the depresion in the yellow cereal, as does also the fine weather, which has insured the crop and placed it beyond all danger of frost.
nontreal grain and flotr.
Receipts of grain for the week were 344,602 bushels, against 212,269 last week, and 331,709 for the same week last year. The total receipts from May 1 to date were $10,110,358$ bushels, against $7,382,491$ during the same time last year. The stock has decreased 126,000 bushel during the week, and is now $2 \pi, 000$ bushels less than a year ago. The stock of wheat is only 86,000 bushels, against 408,000 a year ago. The market to-day was quie and generally easy in tone, bul Huron to Liverpool too The steampure We quote:-Canada red winter Canada spring, 79c@80c ; peas, 66c@67c per 66 lbs.; oats, 28c@30c per 32 lbs ; rye, $59 \mathrm{c} @ 60 \mathrm{c}$;
barley, $55 \mathrm{c} @ 60 \mathrm{c}$; corn, $550 @ 56 \mathrm{c}$ duty paid, and 470 in bond.
Oats and peas are a fine crop, and while the sample will be very fine.
hive stock
The Montreal Gaze narkets as follows :The much desired improvement in the British naterial set back has be realized, in fact a knocked values down to the lowest of the sea son, even though the receipts from Canada and
the United States have continued light the United States have continued light. The
offerings of other cattle, however, have been large, exceessive, in fact, which resulted in de
cided weakness in the market to-day. A Stanley to-day there were liberal offerings and a very weak demand, which compelled sales-
men to submit to a reduction of about $\frac{1}{2}$ c. per men to submit to a reduction of about $\frac{1}{2}$ c. . per
lb, which brings prime Canadian sters down to 11 which The arings prime Canadian stem from other markets are
no better. Our cable advices quote prime Cans no better. Our cable advices quote prime Cana-
dian steers
dic., fair to choice 10 tede., poor to
 Inferior qualities have a miserally slow trade and are practically unsaleable, except at what-
ever price buyers choose to give. In contrast ever price buyers choose to give. In contrast
to the cattle market, sheop have made a very
decided improvement and have advanced ma to the cattle market, sheep have made a very
decided improvement and have advanced ma.
terially. At Liverpool to-day there wa a comterially. At Liverpol to-day there was a com-
paratively good trade, and although offering paratively good trade, and although offerings
were fair the market was lo. higher. Best sheep were cabled at 14c., secondary qualities
at 12 , @13c, merinos at $11 \frac{1}{2} \subset\left(12 \frac{1}{2} c\right.$, and in-
 quorations are ealculated at at 480 in the $\notin$. The
meat markets were cabled without much change meat markets were cabled without much change.
Liver pool quotes 5 5id. for hindquarters, and
 for hindquarters, and 2s. for forequarters per libs. by the carcase. The following table show the prices of prime Cana
on the dates mentioned :-


Late cable advices report the Liverpool market steady, and quote sales of Baldwins at 11s. to 13s. per barrel for round parcels. A late private letter dated London, Eng., Sept. 21, 1886, says:-"Canadian and American own and the continental crops are a long wa below the average,"
člover seed
This crop in some sections promises much better than for some years previous. Ameri2s. to 44 s , and German red at 56 s , French eed at 50 s. We look for a good export trade t moderate rates for both red and alsike.
cheess
Has ruled very firm, and has advanced steadily 11 through the season. On the whole the trade nust be satisfactory to both the buyer and eller.
The stock in Liverpool is cabled at 79,500 boxes, which is the smallest quantity carried at
his date since 1880 , when it was 57,500 . The stock in New York is given at 44,398 boxes
against 62,815 a year ago, but the statement is considered ridiculous, as many who ought to know estimate the stook at not less than 75,000 . Twelve cents has been offered for September cheese. These prices we think are dangerous, and sellers may repent if they do not accept these offers. butter.
The mail just in announces a considerable advanoe in Cork butter, which amounts to 6 s (1) s., firsts being quoted at 102 s ., seconds 87 s ., hirds 76s., fourths 64s., and superfine mild cured firkins 1103. The improvement has exended to American butter, which has been in better request ab an woted up to 94s In this Liverpool being $q$ is about as before with ark tone well maintained and exorters looking for finest lots, for which full Ggurees will be paid. The New York market has further advanced, good to fanoy creamery being quoted at 26c@3lc.


Live Stock Market
Buffa
attle.
Cattle. Copl. 28, 1880. The supply of cattle on Monday consisted of 24t car loads. The market opened up steady at about the same range of prices as those ruling the Monday previous. The quality of the offerings ranged from common to choice, there being no extra cattle on
sale. The best sold at $\$ 450 @ 5$; good $\$ 4 @ 45$; fair to good butchers' steers, 83 50@4; mixed butchers stock, $\$ 272 @ 375$ for common to good, and stocker at $\$ 2.75 e 3.25$. The offerings were ight on fuesday
but enough to meet the demand. Only three loads but enough to meet he dean. These were common
were received Wednesday. quality and were not wanted. The following wer the closing Quotations



 Weighind 1,100 to 1,200 libs ave ity
Light Butchers
850 to 1,100
quality, 100 ibs, of fair to good
Butchers, stock-inferior to com-
mon sters and

 Fat bulls, fair to extra. ..... SHEEP.
inst 33,400 Receipts 38,400 , against 33,400 the previous week. The sheep market opened up on Monday with 70 car
loads on sale. The demand for sheep was good, at strong on sale. The demand for sheep was grices of Saturday, and about all the
stron

 The demand was active and prices advanced seep
cents per hundre, cosing with fair to
selling at
sod

Receipts 50,310 , against 54,458 the previous week. Receipts 50,310 , against 54,458 the previous week.
There were 68 loads of hogs on sale Monday. The demand for all grades was active at an advance of
$10 a 15$ cents per hundred over the rates of Saturday $10 \propto 15$ cents per hundred over the rates of Saturday.
The receipts were light on Tuesday, and prices were




Our readers are aware that we drew attention to the Potato Beetle before its depredations were known to the farmers, and the Government then appointed an entomologist to investigate and report about th om. We also gave the first check anthrax that was ruining farmers in Nova Scotia. We also gave the first information on which the Government acted to stamp out the hog cholera and foot and mouth disease then existing in western Ontario. We also gave the arted in regard to an existing case of tuber culosis that existed at Point Edward quaran tine. We also gave information about sheep rot or tape worm that was sweeping away the sheep.
The dairyman who buys or grows a big cow, giving a little mess of milk, for the sake of end of her usefulness as a dairy animal, is like a manufacturer who buys a big steam engin for doing a little work, for the sake of having a heavy weight of old iron to sell when the engine is done with. The waste of food for keeping up the excessive weight of the big cow, and keeping her warm, and the waste fuel and steam in keeping hot the needless iron in the big engine, are quite analogous, and there is a striking similarity between the old iron in the Unless a hig cow is an extra milker she is less profitable than a smaller one that is a fair milker.-[National Stockman.

In a series of experiments Prof. Henry, of the Wisconsin Experiment Station, found dur ing the month of August the extremes of water in several churnings of butter to be 14 per cent. and 15.92 per cent., a range of not quite $t w o$ per cent. As the a tember hat lesk. In sixteen analyses of sixteen churnings, by different persons in different churns, the lowest per cent. of water in the butter was 14.07 , and the highest 15.74 , all but two being over 14 and under 15 per cent.

We solicit correspondence from our farmer and breeders on the Herd Boot questions, which receive special prominence in this issue are deeply affected by the course that will be taken. The"question cannot be satisfactorily settled without agitation.

## Notices.

We would direct the attention of our readers
to the advertisement of Mr. M. MacCormick, Principal of the Guelph Business College, a gentleman in whom we have much confidence,
and one we believe eminently qualified to fill the position he at present ocoupies. The Exhibition of the Township of Moore (Co. Lambton) Agricultural Society will be held
on Oct. 12. Silas Mills, Logierait P. O.,
Sitale Secretary.
THE CANA The Canada Business College, Hamliton,
Ont. -This popular institation has had an attendance of over 250 students during the past year. It is one of the oldent and most suocess-
fun schools of its kind in this country. The
beantiful catalo beantiful catalogue of the oollege may be had
by applying to Mr. R. E. Gallagher, Principal. Mr. F. W. Stone, Guelph, Ont., reports the
following sales of Cotswold sheep:-To Messrs. following sales of Cotswold sheep :-To Mesers,
Sotham \& Co, Pontiac, Mich., 80 head, viz. rams and ram lambs, 61 ewes and 10 ewe lambs; rams and ram lambs, 1 ewes and 10 ewe lambs
to Mr. Hill, Morrisville, Vt., , Cotawold ram;
to $\mathbf{F}$. Bonnycastle, Campeliford, Ont, to F. Bonnycastle, Campbellford, Ont., 1 ram.
We cordially recommend the Hamilton BusiWe cordially recommend the Hamilton Busi-
ness College to the notice of our subscribers.
Conducted as it is by two chartered accountants, we do not see how it can fail to satisfy its
patrons ; and if its past record is allowed to patrons; and if its past record is allowed to
speak for itself, then we consider it a highly
spacesful inetitntion successful institution.
" Pulverize the land, whatever you do:
"Go on the principle of the woman making Go on the principle of the woman making
"gooseberry pie- who sweetened it all she
dared and then shut her diared and then shut her eyes and put in a
"handful more Work your land until it handful more. Work your land until it is
"fine enough and then go over it again. If
you do not think this will pay, try it on " sou do not think this will pay, try it on a
" with the bagh the field, and then oontrast it "ACME" Pulverizing Harrow, Clod Crusher and Leveler, on page 319 .
The attention of Carriage Builders and user is d rected to the advertisement in another
column, of the Adjustable Sand-Box and Im proved Concord Axle. These Axles are far superior to any hitherto placed on the market,
and are so acknowledged by all practical carriage builders who have given them a trial The increasing demand for them proves their
supprriority over all others. Anyone addressing
A F MILEs, Stanstead, Que. will receive a sup riority over all others. Anyone addressing
A F . MLLEs, Stanstead, Que., will receive a
cut sho cut showing the adaptibility of
and the preference for the Axle.
A Fortune of $\$ 150,000,000$. - Chicago, Sept.
15.-About fifty heirs of the Mosher estate had
a meeting here to-day to decide who shall go to a meeting here to-day to decide who shall go to
England to ascertain the amount of property ber, and the true condition of the will. Th estate, it is claimed, amounts to over $£ 33$, Stewart Brilding, New York, are prepared to make searches, collect claims, furnish copies of
wills, and all necessary information at trifling ost. Their authentic book register, contain have been advertised for;" sent post paid for 50
cents. See advertisement headed "Enormous
St ents. See ad vertisement heacolumns.
Fortunes," in our advertising colun
Mr. Henry Arkell, Farnham Farm, Arkell, Ont., reports the following sales :-Twenty
Cotswold rams to Geo. Harding, Waukesha, Cotswold rams to Geo. Harding, Wankesha,
Wis., U. S.; Uriah Privett, Greensburg, Ind
U. S, fourteen Cols Thes. These were all fitted for show purposes his is the sixth year Mr. Privett has bought
his show Cotswolds from Mr. Arkell, On Cotswold ram lamb to James Bolton, Eramosa, nt. ; one Oxforddown imported ram and ewe
owilliam Young, Waubuno, Ont. ; ram to to William Young, Waubuno, Ont. ; ram to
Smith Evans, Gourock, Ont.; ram to Adam armstrong, Speedside, Ont. ; ram to the Parry
Sound Ranch Co., Parry Sound, Ont.; ram to nd ewe to Thomas Temple, Fredericton, New Brunswick; two ewes and two ewe lambs to
Anthony Sanson, Jarvis, Ont.; ram lamb to Anthony Sanson, Jarvis, On. , ram lab to Fo
W. Woods, Salford, Ont. ; ram lamb to
W. Whants, Petersburg, Oram ; lamb to Robert lamb to E. lop, Ailsa Craig, Ont.; álso three imported
ewes to G. H. Pugsley, Lockport, New Pork.

NEW ADVERTISEMENTS. adVErtising rates.
The regular rate for ordinary advertisements is
Sc. per line, nonpariel, or $\$ 3$ per inch. No adverisement inserted forles or \$3 per inch. No adver for definite time and space made on application. Advertisements unacoompanied by specifio in ructions inserted until ordered out, and charge

The Farmer's advocate is the unrivalled adver Ksing medium to reach the farmers of Canada, ex
ceeding in circulation the combined issues of all the ther agricutural publications in the Dominion. Send for an advertising circular and an estimate.

## SPECIAL NOTICE.

The FARmER's ADVOCATE refuses hundreds of being of a swindling character. Nevertheless, we cannot undertake to relieve our readers from the need of exercising common prudence on their own bhalf. They must judge for themselves whiter
the goods advertised can, in the nature of things, be furnished for the price asked. They will find it good rule to be careful about extraorainary barases by paying for goods only upon their delivery.

## RM NOR EATM.










R. McDougall \& Co., Galt


WIND MILLS




 odite fres and five
-
R. MODOUGALII de Co


## PGood Words.

 Thimes are hard, but. would sem harder withoutthe ADVOCATE. M . J. ARM Av, Pakenham, Ont.



 1 have much pla
 Brim full of verf. I carnot pralse your Journal too highly for the
independent stand it has taken. In am onvineed it
 ISPP, Courtright, ont.
 parton worth al the mone. Robt. Read, otawa, Ont.

 the home of erery farn
BWALE, Wiarton, Ont.
 deal that we are apt to forget, and stlll enilightening Hiff.- H . Hugurss, Guelph, Ont.


















 that You maty ob ong spared to fill the ohb.
Bo well. - R. S . A MBEON, Nello ourne, Que.
The Writer. who is Seretary of the Wisconsin
Dairymenty
ssocociation wishes to a acknowleadse re-








Prease find inclosed the sum of 53 for my sub-
seripioion and
Georege Mceain's for another year.



 SMANDARD GHOPING MHIN

| Using best French Burr Stones.SIZES MADE : |  |
| :---: | :---: |
| 12 inch 30 inch 36 inch | All $\int$ Capacit |
|  | Iron 8 to 4 - |
|  | cases. |
|  |  |
| MPROVED ELEVATOR ATTACHMENT |  |
| Grain is emptied from bags into hopper on the right elevator to mill hopper ground, dischareea into second |  |
| SAVES TIME! SAVFS MaNUAL |  |
|  |  |
| EVERY STOCK RAISER <br> EVERY THRESHER |  |
| should have one. No trouble to keep in order. Stones |  |

EASTERN OFFICES: 154 St. James-St., Montreal; 24 St. Paul-St., quebec.
 GRAP EWWNES:

COGENT REASONS WHY



Adopted by the Government of the Dominion of Canada as the STANDARD WAGON, should command your preference:

The intrinsic cost and value of it is at least $\$ 10$ more than any other wagon made in Canada, and any unprejudiced practical man will tell you so, and the thousands who now have them in use say so, becaus fine iskelms used, made only by us, are superior to any skeins made or used in Canada, and are constructed sopecially to receive our Manteare prensed, no and superiority, the Chatham wagon can be purchased at no greater price than is chamged for inferior wagons. Bear in mind it is the running gear that carties no constructed wagon.

Liberal Terms to Parties buying in Carload Lots. Correspondence solicited
CHATHAM MFG. CO. (Limited).



- EXTRACT FROM THE LONDON TIMES.




 APPEAR here or not, to send for Bobk-Register
prioes
tions how tonts) oootatining 50,000 names and instruc-BRITISH-AMERRCAN CLAIM AGENCY
(Inoorporataded pade tholinws of the
$\begin{array}{ll}\text { STEEW ART BUILDING. } \\ 250-2 & \text { NEW YORK OITY. }\end{array}$
Our readers desiring to procure ohoice Clydesdale stallions or this issue. We have received from Mr. E. J. Maxwell,
Montreal, Searetary and Treasurer of the Mon treal Horticultaral Society, a sopy of their eleventh annnal report, including the report of the Fruit Growern' Association of the Provinoe of Quebeo.
Prof. Arnold, in a private letter to us, makes the following reference to the English farmers : the English farmers a capital set of men, in dustrious, intelligent, skillful, friendly and extremely hospitable. I enjoyed my intercourse with them ever so much."
An English dairyman gives the following remedy for warts on the hands of milkers: Night and morning apply a saturated solution of salt in the best brown pickling vinegar. Let
the owner of the hand take a pint bottle nearly filled with best brown piokling vinegar; drop in a little table salt, shake, and add more ; "on tinue this till the vinegar will not take up more, The application may be
If there were no scattering grain, and if the fields in wheat were not plowed and sown with wheat again, says a correspondent of the Philadelphia Press, it would be an paey mattor to exterminate the Hessian fly. All that would be necessary would be to delay sowing until frost, when the fly ceases to lay her egge. But in the meantime scattering grain from the harvest has come up, and on this the fly finds a home for her progeny until another crop is
hatched out in the spring. If wheat succeeds Wheat the scattering grain must be plowed or
cultivated under an soon as in cultivated under as soon as it appears. Wheal
stubble should always be rotted, not for the stubble should al ways be rotted, not for the
value of the rottings, but that it may not eprout value of the rottings, but that it may n
and make a home for the Hessian fly.
Quite a number of amusing scenes are usual ly witnessed at the fairs, of which the following is a case in point:-Two young men enter the honey hall. One of them is heard to say, "Oh, here is the honey and bees ; my father used to keep bees; I know all about bees. Oh, isn't that chern in among the honey goods for ?" That's not a churn." And the young men turned to see who the speaker was, and were greeted
by the emiling countenance of a beekeeper, who by the miling countenance of a beekeeper, who
expended considerable time with them trying to explain the difference between a honey ox. fractor and a charn, but they wore no worse
of than one of the judges ana show at Guelph, where one of the judges did not know the dif
ferenee between a wax mad a honey extrector


## WHEAT DRESSING

GREAT IMPIROVEMENT

Extract from a Special Report which appeared in "Bell's Weekly Messenger." "The use of Sulphate of Copper was dispensed with, but in its stead the seed was dressed with crops and, may be, preventing blights by its antiseptic action-both these objects were attained; freedom from blight has been most remarkable, and though the season was unusually wet, our straw is the best w have grown-the yield of grain proves to be a little over our average. For , wach sack of wheat we used 4 oz of Calvert's No. 5 Carbolic, with one gallon of water in a watering pot, so that the fluid can be evenly distributed over the heap of corn, which is then turned over and over with a broad shovel till intimately mixed; this is done over night and the seed is ready in the morning, but be had from any chemist.) exactly can be had Acid (Caivert's No. 5) to be the most effective and cheapest preventative of the mischief for which it is employed of any that have been used-it does not prevent germination, nor, when rightly done cause injury of any kind. If people buy the stuff too often solat seems to be ammoniacal gas liquor, floating above a black mass of gas tar-this contains about 5 per cent. of Carboic Acid, but the ammoniacai iquar mpossible. enders germination next to impossible. it is worse than folly to buy the stuff just mentioned, when the saving of cost only amounts to a few cents per acre.

EXPERIMENTS IN QUEENSLAND ON RUST AND SMUT IN WHEAT SHOW THAT CALVERT'S No. 5 CARBOLIC IS VERY EFFECTIVE IN PREVENTING SAME
CALVERT'S No. 5 CARBOLIO ACID is of guaranteed strength, and free from Tar Oil,
LYMAN BROS. \& CO.,
LYMAN SONS \& CO.,
b
TORONTO.
MONTREAL.
FORTY-TWO GOLD AND SILVER MEDALS, DIPLOMAS, \&C., AWARDED.
F. C. CALVER'T \& CO., Bradford, Manchester,
ginal manfacturers aid pobyeyors to the government
Forest City Business College.
 BUEINMES MDUOATION.
$\qquad$


This is the leading. Commercial college in Canada. Ins location is in the business and educational
contre of this Province. The course of studies has been specially arranged to give a sound business training arithmetic, commercial law, bookieeping, correspondence, ARITHMETIC, CENMANSHIP, Practically taught. RE-OPENS SEPTEMBER 1st. For Circular, giving full information, address,
$\begin{aligned} & 249-\mathrm{d}\end{aligned}$ C. O'DEA, Secretary. 249-d

viviesdrffgef
Corner of İing and James stree's, Hamilitors, Oitt., opposite Gore,
A first-class Business Training College, for Ladies and Gentlemen. For full particulars send for Cir
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