VOL. XIII.
LONDON, ONT., NOVEMBER, 1878.
NO. 11.

Tho Farmor's Advocato

Office:-Advocate Building, London, Oid To SU BSCRIBERS:
Trkxs. - 8i per annum, postage paid ; $\$ 1.25$ when in arrears. We canot change the eaddress of a subscriber
give bus his former as well a his $p$ present address.
Subseribers should
 Subseribers whons dan commentence with enpens natio monthe the contrary Our To ADVERTISERS:
$\qquad$


 Advertismg acocunts $\begin{aligned} & \text { rendered quarterly. } \\ & \text { Advertisements, to secure insertion and }\end{aligned}$



On the Wing.
Mr. L. B. D. Lapierre, of Paris, complains that we have not said anything about France. He asks or an account of my trip there. No doubt other French subscribers, and some English ones also, would have been gratified to have seen what we have in that country. We crossed the English Channel, leaving houl rail to Paris, Returning, we rossed from Calais to Dover on the double steamboat called the Calais-Dover. This vessel was the one chartered to bring Lord Beaconsfield home from the world-renowned European Conference held at Berlin. This peculiar double vessel is a wonder to navigators ; it was constructed in such a form to prevent sea-sickness, but it does not prevent it. These little shallow-built boats have far more disagreeable motions than our large Atlantic steamers; they only draw about 6 20 ; they have not depth enough to 20 ; they have not depth enough to
keep them steady. The newspapers here continually said that the crops were poor in France this year. The wheat was being cut; we saw men cutting the crop with scythes and sickles ; the women were binding it. The crop appeared to us much heavier than any we have ever seen in America ; in fact, heavier than wheat crops in England.
A large quantity of peat was being dug in one locality, trough which we passed. Thousands of stacks or piles of it were to be seen. There were fere wheeling the peat, setting it up to dry, and building peat stacks.
at paris
we hired a well-furnished room, for which we paid 4 francs a day, equal to 80 cents. The room, besides the usual farniture found in our hotel bed ooms, contained a table, chairs, sofa, and a fire-
place, if it should be wanted. Meals areserved in these rooms, if wanted, at a cost of 25 to 40 cents coffee breal and butter, or tosst nicely, tea This does not indicate the extortionate chares hear of. This was good enough accommodation for your humble servant. Of course, many to to the most fashionable hotels, and put on such style that they ought to pay dearly for it. We have in our travels found men living in the most expensive hotels that are erected for the wealthy aristocracy, that could not pay their honest debts or keep their families in bread. We took our meals where we choose, sometimes at the restaurants in the Ex has to pay pretty dearly for all he gets. One day we dined at the Hotel de Louvre. The dining room is one of the finest, perhaps the best, in Paris. It is very large, with a high-pitch ceiling carved, gilded and painted, magnificent paintings, and silver and gilt furniture of elegant pattern. The first course was melon ; second, soup; third, fish ; then meats, course after course, I do not-remem ber how many. It would be difficult to find out of what they consisted; they were all very nice, as they excel in cooking. What surprised us most
was the absence of cruet-stands. Neither pepper, salt, nor mustard was wanted with anything. Every sauce was exactly suited to the palate. No one asked for anything except it was more wine ; every person had a bottle placed by them to commence on. Some, I noticed, called for a second bottle. The oil paintings hung in the reception-room alon we should judge to be worth 100 times more than all we see at our Provincial Exhibitions.
The public squares and boulevards are very large, clean, neat, and well kept. The walks and roads are very tidy, and the tres and gardens are very hance. and jaded lot of horses we have seen. The omnibus and street-car horses were just the reverse. They were strong, well-kept animals. They are principally of the Percheron stamp, well-formed, stout horses, having very wide shis bones, short necks and flat rumps. The Parisians are fond of external show. This is displayed in every way. They are very polite, and
do much more to oblige one than Englishmen or Americans.
a sunday in paris.
We have heard Americans say that Sunday dropped into the Mississippi. You would bere think it dropped into the English Channel. We and Sunday from 2 o'clock a. m., as the wagons way to the might then be heard wonding of the markets about $90^{\prime}$ clock. Every space was crowd ed ; business was lively. This is the principal market-day there.
We went next to Le Magdalene. This is the
 The interior of the building is gilded, carved and $\mid$ more in next issue.
ornamented with a lavish hand. The rich robes o the priests show to advantage when compared tering we were invited to the attendants. On en chair; there are no pews, but the building is well filled with chairs. Women were continually pass. ing along the rows rattling money-bags and de manding the price of the seat, a half franc-this was paid; then a collection was made, for this i high mass. By-the-by, it is high mass every Sunday There are two organs and two choirs in differ ent parts of the Church, one responds part of the service to the other ; the effect was very grand. We cannot say much about the sermon, was said half the time. In the afternoon those that here attended church (there are but few) meet free of charge.
Theatres, concerts, and all kinds of amuseents, are well patronized. Sunday is the great ay for amusements of all kinds.
We drove through many of the roads in the Bois du Boulogne. Very extensive and beautiful hey are-perfectly charming. We then went to the zoological gardens
where a grand collection of foreign wild animals, birds, reptiles, plants, from all parts of tho world were exhibited. But the greatest
attraction there was attraction there was a grand concert. The one would have thought that half of the Parisians were present. Only a nalf franc, or 10 cents, was charged for almittance, but the receipt are largely made up from the sale of wines liquors, teas, \&c., \&c. After the concert two elephants were walked round, carrying on each of their backs near a half a hundred of men, women and children. These were followed by dromedaries and camels, each laden with human freight. A large ostrich was harnessed in a cart, and
drew this filled with children We should judge that the bone in this ostrich's leg would weigh more than any bone in a horss. There are nearly 100 diminutive ponies kept on which people ride. The most ludicrous sight we saw in Paris was at this place. A rather short and very broad woman rode past us on one of these animals. Her hinder part was of suck dimen sions as to eclipse the back of the pony,
and covering it in every direction. and covering it in every direction. The
wonder to us was that the pony could carry
such a mountain of fat. Opposite to this show such a mountain of fat. Opposite to this show
was a large iron enclosure; in it were men gal. was a large iron enclosure; in it were men gal
loping about having a game of tournement. When loping about having a game of tournement. When
this was finished wild horses were turned loose and Indians galloped after them with lassos and
caught them. Tired and weary we returned to aur caught them. Tired and weary we returned to our
lodging after spending a most remarkable Sunday Shame, shame, we hear some say, you ought no to have patronized sach proceedings. We would refer Mr. Lapierre and others to our account of
Agriculture in France, which appeared in 1874

Subjects for Consideration. The winter is the season for comparative rest for farmers. It is the time when all plans should be arranged for the coming season of active manual and hard manual labor from early dawn till late at night, as many of our farmers work from seed-time night, as many of our farmers work from seed-time
till the harvest is secured, without impairing his till the harvest is secured, without impairing his
constitution. Farmers work too much in summer and too little in winter. Part of the time in winter should be employed in maturing the plans to be followed the coming season. Understand clearly what you are doing. You should ascertain what every crop has cost you, and the value of the crop raised. If, for instance, you take spring wheat, and receive interest of money or rent of land, cost of labor and seed, and value of crop raised per bushel, you will find in many sections the spring wheat has cost $\$ 2$ per bushel, and on some farms it has cost over $\$ 3$. Of course this has been a bad year for spring wheat in some parts of the country; here has not beor the past twelve years in some sections. Reckon the average crop and the average price, and then
see what the balance is. In this county it will show a heavy loss. Go over all your produce and estimate the profit or loss. You will find that beef, mutton and cheese have been profitable, and that poultry and fruit have paid.
When in Europe the
When in Europe the past summer we went France; also into shops where Canadian produce is sold. Our deduction from personal observations and conversation with others is that Canadian farmers need be under no alarm about over-stocking the European markets with any of the abovenamed products, and that much higher prices may yet be obtained by us for such; that they will always pay high prices, and that our safest and most profitable plan will be to devote our attention to supplying the European market. That market we can rely on, and the prices of fresh meat will pro bably never be lower. The opportunity of making them better is in our own hats. Our product ne not equal in quality. By improving the quality we shall increase the prices we receive. Most o we shall increase the prices we recere. hands under the name of American. We should at once try to establish a name for Canadian products.. The value of our products has been very materially injured by dealers selling inferior articles as firstclass goods. For instance, the Red Chaff wheat has been sold as the Canada Club; this has passed into consumers' hands and been found inferior. The price of our good flour has been reduced on
that account to some extent. Inferior butter has that account to some extent. Inferior butter has been shipped for first-class, and been placed on the counters of retailers, till the name of Canadian butter has become a sill . Sloped beef and porl ghisting to taste and the value of our choice meats, These courses of procedure have given such a disThese conses press that at the present time we cantasto to cod a price for our good produce as we might for our inferior produce; either the farmens or dealers have had more for the Jatter than it is worth. It is our impression that at the present is worth. . much of our first-class beef is consumed un8nowingly in England as English beef, but the manipulators have the profit. There is not a sufficient distinction made in the prices paid by purchasers, the slop-fed, stall fed and grass-fed being all sold for about the same price. To the Wealthy judges and consumers of beef in Cagland Where is fully 50 per cent. difference in the value
(if well-flavored, good meat and the ill-Havored, if well-flavored, good meat and the ill-llavored, *lop-fol article, The Canadian farmers who raise
becanse there is not a proper distinction made.
Can no better system of grading products be adopted? Is there not room for dealers to establish a name for supplying really reliable, first-class products?
We must try to improve. It is by raising the best produce that our farms must pay. We may offend some of our readers by stating our opinion in regard to mutton, namely, that we never have tasted on this continent a mutton-chop or a leg of mutton that has been near equal in fine flavor to English mutton. Our Cotswolds, Leicesters and Lincolns will not produce such a fine flavor as the Oxfordshire, Shropshire or Soathdown sheep, and as for the Merino mutton-well, it is no
We Yankees are thin and eat on the run.
We must have a greater infusion of black and grey-faced sheep among our flocks, if we want to make the best of the best market. They will oxford Downs are hardly known here even by xford No wh to be seen at our Exhibitions this year. You may depend on it that those who re first on the field with a good flock in Canada will make more than those who still hang on so enaciously to their old breeds and their pursestrings.
The question'has been asked us whether it would not be better to hold wheat now, the price is so low. In our September issue we advised all to sell as quick as it was threshed. Those who sold are satisfied, but those who withheld their grain now regret that they have not sold. If you owe any one any back account, you are not acting honestly in withholding your crop; your duty is to pay every debt punctually. Honesty is the best
policy. If there is anything wanted for the edupolicy. If there is anything wanted for the eduation or comfort of your family, sell. If you are necessary or just demands you may then pleas yourself in speculation. Withholding crops from market is a speculation. Sometimes it may pay market is a speculation. Sometimes it may pay, selling. Wheat is equal to money, and money brings interest. Farmers in withholding crops seldom or never receive any interest, nor recompense for loss or risks. The European market shows no symptoms of a rise. There are immense scarcity in India and China, particularly in the lat ter country. where nearly double the number of ou Canadian population have been starved to death. Perhaps something may be done to alleviate the sufferings in that kingdom, but as yet we see no prospects of it. It is strange that in this en on the earth and despite the railrods and steam boats the seven millions of people should have alrealy perished for the lack of food.
Take care that your turnips are not too warm. There are far more turnips destroyed by being too
hot than too cold; they will recover from freezing but they will not recover from over-heating. Po tatoes will be dear in the spring; take care and do not let the frost get at them.

To Produce Richer wilk.
In reply to the inquiry, Can you suggest any article or method that will produce richer milk the Country Gentleman says: "Feed more cornBrewers' grains would increase the cuantity, but at the expense of quality. Rich food makes rich
Dame
Dame Rumor is bustling about in regard to the
receipts at the Provicial lixhibition and at recelpts at the Provincial Exhibition and at the
Western Fair. The number of persons on the grounds and the sums received are said not to
chime well. Perhapss some of the chime well. Perhapss some of the officials might
explain.

## The Vitality of Seed Wheat

 The great vitality of seed when carefully pre. served from moisture is not unknown to our readers. In former numbers of the Advocate we have referred to this important matter. We now have another instance mentioned in connectionwith Arctic travels. Dr. Schomburg says (in his report on the Adelaide Botanic Gardens) that he received a sample of wheat taken from a quantity left by the American Arctic Expedition ship 'Polaris,' in 1871, in north latitude 81 deg. 16 min. The wheat had been left on the beach exposed to the rigors of a temperature of $72^{\circ}$ to $104^{\circ}$ of frost for five years, and was found by Dr. Ninnis of H . of the last Arctic Expedition. Of this wheat Dr Schomburg sowed three hundred grains, and of these three hundred sixty germinated. The plants grew well, showed a healthful appearance and reached a hight of three to four feet. The ears contained about thirty grains each, small but plump. From this we may learn the extreme vitality of seed, and why it is that plants spring up in land on which we know that no such plants had grown for years. If we permit weeds to nature their seeds, let us then burn them, stem and seed, lest the seed, preserved in the dark recesses of the earth, grow up when exposed to heat and moist

## Good Plowing.

The comparative advantages and disadvantages f deep and shallow plowing is still a subject of ebate among agriculturists. That deep plowing , under some circumstances, detrimental to the see those exceptional instances, and shut their eyes to the great protit that, as a general rnle, is reaped by the farmer who does not merely skim the surface, but cultivates with the plow beneath the often-scratched surface, thereby giving access to air and moisture; they will bring in their descent the necessary stimulants, and the plants will obtain more food and consequently more vigorous growth. Professor Stockridge, in an essay on plowing read before a New England Board of Agri culture, gives in a few words sound advice how to plow. "There are," he says, "two kinds of soil on every man's farm, the agricultural soil and the subsoin. The agricutural soil may be two inches leep, or 16 may be nine, but is It is deepened by lifting an inch of the subsoil at each plowing bringing it up to the air and enriching it with manure, Our Agricultural Society committees, by their premiums for smooth, shiny, flat furrows, have done the community great harm. Such as oftenest takes the premium is the very poorest kind of plowing. The soil is best plowed when it is most thoroughly crushed, twisted and broken with the sod well covered. On some kinds of soil I would have the furrows lapped an inch, as the Canadian farmers plow. Let the air and water have a chance to circulate beneath the surface Light lands, however, should have a flat furrow we wish to make such lands more compact.

## Bran as a Fertilizer.

Our agricultural exchanges have been detailing the profits of using bran as a fertilizer. So much is said of its very beneficial effects on growing crop -root crops especially - that we think it worthy o a trial. Were some of our readers in differen parts of the country to try it on a small scale, saj a few rods each, they would be doing a good sin rice to farmers generally. If it even fails in pro it say it does, the loss will not be great. A Penn.
sylvania farmer says he planted twenty-four whole potatoes last spring, with a handful of bran on each, and covered them with about four inches o whole Right beside them he planted twenty-fou The twenty-four he sume kind without the bran, he twenty-four he pat bran on produced thre The vines with bran had a dark green color, but the vines without bran were yellower.

## Live-stock at Provincial Exhibition

 HoRsesThe show in this department was hardly up to what we have seen in former years, especially in the driving and carriage classes. Owing to the fact that no provision had been made in the plan for the horse stables for enabling the general pub hic to obtain a sight of the animals on exhibition, xcept when they came into the ring before the judges, it was next to impossible to obtain any satisfactory ownership of the various animals shown. In and ownership, of the various animals shown. In
the heavy draught class there are fewer animal exhibited, showing a strong tendency to lay on superfluous fat, than in past years. It is beginning to be found out that these enormously heavy tallions, weighing from 2,000 to $2,400 \mathrm{lbs}$, tha were once in fashion, are not only unsuitable or breeding to the comparatively light mare of the country, but that they seldom prove valuable as stock-getters. In the carriage class there wer lass of boo young animals show and demand for horses of good substance, bone and action, for ex port to Great Britain should induce our farmer to prefer the Cleveland Bay, or a stout, strong boned blood sire of the English class to any other Most of the best carriage teams in the country have been brought up for export to England the past season, which may account for the rather slin show they make here now.

## ttle

The exhibition in the cattle classes this year is most excellent one, especially in Shorthorns, Ayrshires and Grades. A
Among the leading exhibitors of Shorthorns the Bow Park Association make a fine display of 2 head by the imported Duchess bull 4th Dake of Clareiree, a rich roan of fine form and style, bred by Col. Gunter, England, and purchased at 2,500 uineas in 1876. The Chevalier, a red son of 22 nd particularly fine, handsome youngster, bred by Richard Gibson, of Ilderton, near London.
Among the females we notice the fine old 6th Duchess of Oakland, now 11 years old, and still, in her old age a splendid specimen of an old tribe of Shorthorns.
Butterflys Duchess, bred by George Garne, En and, in 1876, is another fine specimen of the so called plain sort of old-fashioned tribes. Rose of Autumn 3rd, a rich roan of 1876 , is the handsomest heifer on the grounds, and easily obtanne 1st prize; she is of Booth's celebrated Mantion his fine herd heased by the red bull High Sherif 2nd. He has several females, among them Isa hella, the cow that won the gold medal at the Centenuial-she gets Ist prize, while Duchess of pringbrook gets 2nd. The competion between this herd and Bow Park for her $h$. lull at its hull at its The Baron, that is the handsomest bull on the grounds, easily winning lst in his class, and diploma in best of any age. They also show a
number of extra fine grades. J. I. Davidson Pickering, brings out several yearlings and calves, G. Pettit and John Fothergill, Nelson, several fine animals, as also does John M. Bell, Atha, Thos. Boak, Milton, John Dryden, Brook hin, J. W. Stone, (iuelph, and A. \& W. Wati, Salem. The heifer-calf ring is the largest w ever saw, 28 head being brought before the judges and every one good.
The competition thronghout is very close, an the judges evidently very careful in making their wards.
This class is remarkably well filled and shows n improvement every year. Messrs. Jardlne \& ons, of Saltfleet, have a magnificent herd-this as also shown at N. Y. State Fair at Elmira Western State Fair at Rochester, when they took gold medals. They carry everything before them ere, including the Prince of Wales' prize of $\$ 60$ herd prize ; $\$ 100$, special, for bull and 5 five emales under 2 years; $\$ 100$, special, for best 10 ows in milk. Thos. Guy, of Oshawa, shows a ne herd, and runs Jardine very close. George homson, Bright, Jas. Lawrie, Malvern, and Wm Rodden, Plantagenet, also exhibit fine herds mie's
herefords.
F. W. Stone, of Guelph, is alone in his glory in this class. They are fine animals, well adapted a fine breed to make the best of beef as grazers and early feeders. But they do not seem to be till they are offered to farmers at such prices will induce them to try breeding them on their farms. They do not cross on our native stock as well as Shorthorns, or prove valuable to the dairy man. It is worth consideration whether they should not now be withdrawn as a breed from the prize tests at our shows, at least for a time. Then perhaps this monopoly of the breed by one man would cease.

## devons.

Mr. Geo. Rudd, of Puslinch, is the leading ex ibitor in this class, though there are one or two thers with small herds.
There is a good display, and, as usual, all are a cross of Shorthorn blood or native stock. No ther pure breed seems to answer so well for mak ing the right sort of stock for the wid e seen, notably a pair of 4 -year-old grade steers exhibited by John Mallon, Toronto-they weigh ogether $5,826 \mathrm{lbs}$. J. B. Armstrong, Guelph, hows two fine 3 -year-old steers pure shorthorns. J. Fothergill, Nelson, 2 fat cows, also Shorthorns.
heer.
The display in the sheep classes is not as large as we have seen in former years. The glory of the once high-priced, fancy Cotswolds seems to have departed. The efforts of the ring of speculators who took hold of the breed some few years ago to make them popular with the general farmer, and to add to their value by getting them pedigreed and recorded, have proveda failure. As a heep they are balities and quality of meat. The turity, feeding quanter for combing purposes is but limited. They have nothing to recommend them except great size, large fleeces and handsome appearance when fed up for show. Their feesh is coarse and has a tallowy taste. They are a fine breed for exhibition purposes, both at fairs and at Christmas markets, but no one will eat their mut-
ton when Southdown and Leicester is to be had Only a few pens of this breed are shown, mainly 23 head, in land, among them the lst prize shearling ewes at the Royal this year; Birrell \& Johnston, and on or two others. In Lincolns we notice a lot of the real simon-pure of this breed, recently imported by John Geary, of London, from the Hocks of C. B Robson, Bunker Hill, Lincolnshire, and Arthur Garfit, of Scothem, Lincolnshire. These sheep are remarkable for their fleeces of extra fine, long silky wool, but are for by haces her ton, has 14 head in this class very laresend faty C. S. Smith, Acton, 20 head, A Oliver, Avon bank, 16 head. They are Canadian Lincolns, sort of cross-bred sheep that has no particula merit about it unless it is size and aptitude to fatten.
In Leicesters the exhibit is the largest of any of the sheep classes, and this breed seems to continue or retain its hold fas the general favorite of the armer. There are a large number of exhibitors in this class, the leading ones being Wm. Somers, lanshard;-A. Oliver, Downie; Humphrey Snell, Clinton, and C. S. Smith, Acton.
Southdowns make a good display, the large flocks of Robt. Marsh, Richmond Hill, H. H Spencer, Brooklin, D. Perley, Paris, F. W. Stone, Guelph, and Simon Simson, Kettleby, being con spicuous. The lst prize shearling ewes of Thos. Douglass, Galt, are beauties. This breed will rapidly gain in favor now that our farmers find market for mutton from exporters to England, our native she pad the lambs come early in the season, arrive early at maturity, and are quick feeders on comparatively rough pasturage. For the purpose of raising mutton for a foreign marke they are the same among sheep as the Shorthorn among eattle. Many of the Leicester flocks might be improved as mutton sheep by a cross or two o Southdown blood upon them
There were no fine-wooled sheep exhibited, and the few fat sheep shown were of inferior quality as regards their mutton.

## swine.

The exhibition is fairly good in all departments, though but moderate as to numbers.- In Berkshires A. A. McArthur, Lobo, makes a fine display, had just been at the Michigan State Fair, wher he took a large number of 1st and 2nd prizes, and the grand prize for the best display of swine. H takes 1st prize here for boar and sow under on year with 2nd Earl and Countess of Balmoral They could not be beaten even in England, w think. John Snell's Sons make a large display, a also does the Bow Park
In Essex swine Joseph Featherstone, Credit, is the leading exhibitor, with several fine animal imported nis yen Guelph, also show several in and as. A
this class.
In Yorkshires, J. \& R. Leslie, Hornby, exhibit some fine pigs.
In Suffilks the leading exhibitors are C. Edmondson, Brantford; Jas. Main, Royne; A. Frank \& Son, Cheltenham; J. L. Peacock, Kincardine; J. \& R. Leslie, Hornby; Rubt. Chadwick, Burnhan thorpe; and last, the largest, is Jos. Featherstone, Credit, who makes a fine display, including a numher of animals imported this year from England He tells us that he this year exported 8,000 cattl the business quite profitable.

What's the Matter with the Butter: The Monetary Times in a very opportune article replies to the queries: Why does not England and What is to be done with the butter? The falling off in the demand for Canadian butter is attributed, first, to the importation of oleomargarine into England, and to the fact that it has met with favor in the English markets. The quantity now imported into Britain is 30,000 packages per week, and the price at which it was laid down this season has averaged 68/ per 112 pounds. The above paper says: "We have seen correspondence, and have conversed with leading men in the trade who assure us the grain and flavor of oleomargarine, wha a butter when shipped fresh to Britain, and that dealers can sell the oleomargarine at $10 /$ more pe 112 pounds than they can get for Canadian butter Thas a foreign and new competitor has entered the best and almost the only market for our but ter, and has secured a demand for three times a much batter per week as we can produce, and which sells well and pays well at 10 / to 15 / per cwt. less money than consumers will give for average Canadian
the English market,
ave buyers?" They the American) màrket. Canadian buttermakers, they found, were not prepared to sell unless they could get what they thought it ought to bring, while the American buttermakers were free sellers week by week at the best price which the competition of the continent would pay. This is what has become of the buyers.
To-day the bulk of the butter made in Ontario since the lst of May last is unsold, and the sum-mor-made stock is staie, has lost its freshness, would say to our readers-if you have made mistake, don't add folly to folly and refuse to sell your fall butter to a buyer unless he will take your summer stock also, in one lot or at one price, Who ever heard of a tailor refusing to sell a man a pair of pants because he did not want a coat and vest also! Sell at once the summer accumulation of butter at the best price obtainable, and do the same with the fall stock. If Canada had seld her butter when it was two weeks oll, she would have received 4 c per pound more than she will parisoń with selling three months hence.
We regret exceedingly to learn that our crean ery establishments have nearly all fallen into the
same error of holding their stock because the could not get the price they thought it ought to worth, and hence their stock is gone stale, and is not wanted.

The Milk Industry of the Country. In common with the agricultural press of the eountry generally, we have been urging the policy of farmers devoting their attention more to stock feeding than they had been in the habit of doing The uninterrupted succession of grain crops, and especially of wheat, had well-nigh exhausted the of every particle of plant food, and renderel complete change in the system of farming a matter of necessity. There has been a partial change there are more live stock on our farms, and, taken as a whole, there is a higher quality of stock With the increased number of farm animals' there is less wasteful exhaustion of the resources of the soil. There has been a grailual approach to a bet ter system of agriculture

The milk industry of the country has grown in The milk industry of the country has greater proportion than other branches of stockfeeding. The raising of young stock, and the feed ing of beef and mutton for home consumption and for foreign markets, has not kept pace with the dairy industry. It is well to consider how far we have succeeded in this enterprise, and if it has been as profitable
wise conducted.
The price of dairy products, as well as of breaituffs, is ruled by the English markets. To Eng lish buyers we must look for remuneration for our expended capital and labor. While English con sumers are willing to pay remunerative prices, they will pay such for good articles only. The Agr cultural Gazette, in reference to home products the dairy, says: "The immense differences price exhibited in the cheese marke are now ingly felt to be both a scandal and anaur, no that the inferior qualities of home manufacture unaleable. * * Only last week we quoted certain les of $\qquad$ 2d. per week we quoted certai it was made was just as good as that from which the best Cheddar at 9d. to ls . per lb . is manufac tured. In the one case the milk realizes close on 9 d . to ls. a gallon; in the other only 2 d . And the whole of this disaster takes place in the dairy
The farmer hass taken land and managed it well he has purchased, bred and managed cattle with milking and delivered the abundant produce morning and evening at the dairy door. He has done his part of the business well, but the question o profit and loss is on almost every farm outside o his labor. Unless 7d. a gallon be made off the milk, he can pay neither his labor bill, his rent or the maintenance of his family. What an utter factured was have ben lat What a it is felt to be even when the ordinary lower prices 40s. to 50 s a cwt. are realized, which are now lone obtainable for ordinary qualities! And yet at the very time when these prices have to be ac epted, we have reports of dairies sold for 80s."
In refering to this subject another English writer ays: "The other day I saw two dairies of cheese ade from exactly similar lairs, for the farms inerlace each other, and from a similar stock etched at the rate of $£ 40$ per ton more than the other.
The great difference in value and price of chees in the English markets exists to as great an extent act, while and throughout all North America. In at very low prices, there is a fair demand for good article, and the same remarks are applicable in a still greater degree to butter. The selling price in Montreal market for low grades of luatter in October was .e. to $5 \frac{1}{2}$ c. per 1ll, while in the best graues thic ing gold beniness at 14 c . he. To she , The only afects the late male chese of perfect tho and condition. The great bulk of stocks held here and in the country are unsalealile at present Choice butter mects a ready sale at current values, and shipments of this class are moving more freely, The poor stocks, however, that have no positive alue, are very large, and tiese shippers pass over with the utmost indifference.
The great loss sustained in the milk industry of the country by careless or slovenly dairy manaye. ment is a loss not only to the indiviluals who
responsible for it, but to the country at large.

The Manitoba Agricultural Exhibition This exhibtion was held October 9, 10 and 11 in the City Hall and Dufferin Park, Winnipeg. he entries up to Thursday morning, the second lows : Thoroughbred horses 9 , heavy-draught 3, general-purpose 23 , horses in harness and saddle 39 ; Durham cattle 19, Ayrshire 4, Grade 35, working and fat cattle 30 ; sheep 30 , swine 39 , poultry 36 ; provincial manctactures 27 , Canadian , doo 05 ; 4 iry , The Fxhibition Hall did not present so good an appearance as last year. The West did not send forward its products, nor did there seem to be as great an interest taken in it.

$$
\begin{aligned}
& \text { Meve grain } \\
& \text { ality did not }
\end{aligned}
$$

though of good quality did not fairly represent the capabilities of the province. Both in quantity of what they should have been, though the quality would in other places be considered good.
The display of
Roots
was excellent. Potatoes, turneps, carrots and mangolds for size and quality could not be surpassed. Of $\qquad$
there were some good specimens, giving fair promise of what may yet be grown in the Prairie Province. Summer apples and Siberian crabs ere exhibited, the latter especially proving quite a superior exhibit. The display of
flowers
was not large, but the varieties were of the higher orders.
datry products.
The display was the leading feature of the exhibition. In butter there were about fifty entries, and it was said by judges that there was not any
in the whole collection that was not first-class.
cattle.
The exhibits in this class were much admired, especially the thoroughbred Durhams of Messrs. shire bull, cow and calf, exhibited by Mr. And
$\qquad$
There were only twe classes-Fine-wooled and Iong-wooled. There were, however, good pens of Southdowns, Leicesters, Cotswolds and Grades.

Profits of Heavily Manuring Clay Soil. A writer in the N. Y. Tribune says the plots which his father manured so heavily thirty years ago yielded far heavier wheat this year than the load tallied and threshed by itself, he estimates the proctuce as over 60 bushels per acre. "Ou clay, he says, "does not soon forget a heavy manuring. This fact is not anknown to many obfrom a heavy auplication of manure are not to be calculated merely from the additional produce of one crop. The improvement of the soil from the good cultivation, and more still, from the heavy manuring in one season, makes itself known in the increased profits reaped by the farmer in succeed ing years. This is an invariable rule in animal and in inanimate nature. cood treatment of land or or beast is pretty sure to entail a commensurate pro fit, while the
certain loss.
The Clawson variety of wheat is hardy and proit, and rine Faltz in inth resplects is fully equal to it, and ripens one week earlier.

Storing Roots for Winter.
For harvesting. and securing roots for wintereeding the month of November is the time. Some of the root crops have been already removed from the ground. Potatoes are secured-at least they are taken from the ground where they were grown, if not stored in the cellar or root-house. Mangel wurzel not being so hardy as turnips are generally might suffer from the early frost, but thes the or most part, piled in heaps in the are, for covered with leaves, where they are left for some days to sweat before they are put into the roothouse or pit. This sweating process is carried out by many good farmers with turnips as well as mangels.
It is of great importance in securing roots for the winter that they be kept at such a temperature as to prevent heating on the one handand freezing on the other.
In some parts of the country little is known by armers of the culture or care of roots for winter directions on storing cannot come amiss. The primitive way is to place them in long heaps on the surface of the ground, and cover them with straw, and cover the straw with earth. The pile may be of any length most convenient and about four feet in length, tapering to the top. Due precautions are necessary to secure sufficien ent for the escape of the heat produced by th heaping together of a quantity of fresh-dug rootin, and the gas caused by their fermentation. The vering of earth shonla be sulcient to save to carry off any water.
It is better to store roots in well-constructed pits where the ground is perfectly dry. These from four to six feet wide. What the length may be is immaterial. The floor of the pit should be graded so that no water can lodge in it; and drains should be dug round it in such a way as to pre vent any water from ying about the pit. In our climate it is better to have the pit extending east and west that both sides may have an equal emperature. Ho th fill dry sand have the space bo the moisture and preserve them fresh condition. The roots should be piled ap to a ridge, as when piled on the surface, and boards placed so as to cover the sides of the pile, if they can be had. Over the pile so prepared, there is then placed a goud covering of straw; then cover with earth-a light coat at first til the heating and sweating of the roots are over, and thel earth enough to keep out the fros. Chimneys mace of boards stourd connecting with the roots to secure perfect ventilation. They hould be closed in
These chinneys.or pipes can be made out of inch boards, such as are used in fenciug, four inches and two inches wide. Two opposite sides should be some inches longer than the other two, and over these longer ones a board may be nailed to keep out snow or rain.
Potatoes may be stored in the same way as roota for stock-feeding, if there be not a root-house o rom enough in the if predy pitted fresher be kept till spring keep, if preperly pitted, freshe than in the cellars, whether intenced for they use or seed. We have found the storing done in work manlike manner. The greatest disad vantage attending this method of storing roots is the difthculty of getting them when wanted during field winter. ${ }_{\text {cone }}$ is preferable to pitting.

Giverciuary.

## Vertigo (Megrims)

## A correspondent wishes some advice as to "stag.

 gers "- "Is there any preventive, any remedy, when attacked?" We give spaee to the followingreply on the subject from the N. Y. World:Where acute attacks of vertigo (megrims) have been neglected and allowed to come and go of their own accord without resorting to effective remedies or removing the direct primary cause producing cult therk their eradication would prove very dif ficult. Effective preventives of an attack of this disease are of far more value, utility and profit of the disease is located in in the has been nasl is located in the stomach. There management of the animal attacked with diseas now under consideration. The consequent result
of this neglect and oversight is a disturbance of the brain-function and the nervons system, and the disease therefore must be considered as incuratem remain in this abnormal and pathological contem remain in this abnerm in the hours of feeding and
dition. Regularity
watering, sound and sweet gran food and watering, sound and sweet grain-food and proven-
der, pure and soft water given in sufficient quantider, pure and soft water given in suffcient quanti-
ties only as the occasion requires, will prove the most efficacious treatment and preventive of an at-
tack of vertigo I know of. But when this rule of tack of vertigo 1 know of. But when this rule of
reasoning has been neglected, overlooked and conseasoning has bisobeey ned, attackocs of vertigo are the re-
sequl.
Hence the stomach of an animal develo sult. Hence the stomach of an animal developing
the slightest diathesis to an attack of vertigo should never be allowed to become distended with provender. In these cases it should bept in rather
an empty condition. Immediately after the first an empty condition. Immediately after the first
attack of vertigo and when the animal has so far recovered from it as to be conscious, a mild laxative drench is requisite and should be administer-
ed. The fcllowing is adapted and will be found ed. The fcllowing is adapted and will be found
efficacious:-Twelve ounces raw linseed oil , two
drachms finely pulverized pure Cape alos drachms finely pulverized pure Cape aloes, and
one drachm of antimonii et potassa-tartrass. Incorone drachm of antimonii et potassa-tart trass. Incor
porate well together in a common drenching horn, porate well together champagne bottle, and after
or anoothen
devating the head well pour the drench slowl elevating the head well pour the drench slowly and gee times, allowing five days to intervene between each dose. The solid food given the aniparts of purely sweet and sound bran and oats, made into a mash and properly seasoned with salt. food should be fed at any one time, and not more than three times in every twenty-four hours nor
more than six quarts of pure, soft and fresh wat given at any one time, nor oftener than three time In twenty-four hours. When water is crave
oftener and in larger quantities it shonld be acidulated with cream of tartar; two drachms of the lat ter well mixed in six quarts of water will be a suffiturnips, well washed and sliced, will be found very beneficial to feed twice daily. If the season per-
mits the animal should be turned out on short pas ture. Etu in all cases where dry hay or proven-
der has to be fed, not more than one-half the usual ailowance-seven or eight pounds per diem-shoud
be given. No corn or other heavy grain, whole or ground, should be fed.

Disease of Liver and Mesenteric Glands in Cattle
The Country Gentleman recommends the follow ing :- Give the following at one dose :-Linse aconite, $\frac{1}{2}$ dr: ; mix. Afterwards give every othe gruel :-Powdered opium, 1 dr ; calomel, 1 dr . tinctare of aconite, 20 drops. Then give twice a day the following in 1 quart of warm stock ale: Powdered gentian, $\frac{1}{2}$ oz; ; powdered ginger, 3 dr . caraways, oz.; powered a best food is a great
of copper, 3 3dr.; mix. The ber
necessity, and of that which is easily assimilated Oil-cake, cotton-seed cake, oatmeal flour and good
hay are the best. But in some cases the mesentric glands are so disordered in function that no rea ment is beneficial for more than a brief period.

## The enturse.

## The Horse for the Farm

 In stock breeding the farmer should have some definite object in view. In this department, as in many others, there is too little attention to this important matter. A farmer breeding young have such as are most applicable to it. If the farm be a heavy clay soil, the horses for the plow should be heavy in proportion to the soil, but in no case should the farmer's horse be a dull, sluggish animal. He should be of high spirit and mettle,inherited from his sire. A writer in the Rural Neco Yorker says. "The A writer in the Rural horse for the farmers in these times. A mediumsized, active animal that can go from eight to ten miles per hour on the road, and haul two tons per pair on the fair, is the farmer's horse."

## Judging Draft Horses

We deem this a good time to enter a protest against the prevailing eustom of judging draft horses in the showing mainly with reference to prepared for the butcher's block. In the latter case, the quantity and quality of the meat are the primary considerations; but we faill to see why such a test should be applied to the former. We don't eat horss flesh in this country, eonsequently mere weight of carcass is of no value except as it gives greater ability to draw a heavy load; and if this weight be made up simply of an accumulation of adipose tisue (fat), it is a positive cumbrance rather than a help, and should be judged accordingly.
There ean be no question that the size is an im. portant feature in a draft horse ; but to be of value, the desired weight mast be made up of form an important part in making up this weight; and even here we cannot depend upon the tape lines nor the scales in making an award. The quality of each is a vital consideration. If the indications are that the bony tissue is of a soft, porous nature; if the joints are gummy and defective, or the muscles flabby and ill placed; the hoofs flat and brittle or too much contracted; or if an ox no amount of ore weight bould be por mitted to atone for such serious defects.
A good draft horse must possess strong vital organs, which fact is usually indicated by the form and relative size of the trunk. His joints and legs spavins, elastic cords, with an entire absence of "beet" upon those parts. The feet should be large, neither flat nor mule-shaped, the horn hard and elastic, but not brittle. The bottom of the foot should be examined to see that it possesses the desired concave appearane, and that the frog does our heavy draft horses are most notoriously defective. As we have said in a former number of the
Journal: The principal requsite of a good draft horse is, good size, made up without asuperabundance of fat ; but to this must be added, docility, qualities above described, in perfection, and then the more of action and style he possesses, the betyer. be to may be nearly perfect in all respects, and
ye classed as a first-class draft horse. On the other hand, he may weigh a ton,
but if the weight be made up mainly of for he be ill-tempered, unsound, or lacking in endurance, his value is materially lessened. He may
possess all the points above enumerated and yet
bee be so deficient in energy, and so heavy' and slug. gish in his movements, as to come far
perfect draft horse.-Live-stock Journal

## 召xixy.

## Fraudulent Tampering with Milk.

In every community there may be found people the moral qualities of whose conduct are governed only by a regard for reputation, accompanied, per haps, with some little rudimentary traces of con science. Such persons will do little dishonest things in the dark, but will be very careful to avoid even the appearance of evil in daylight. They might not steal from one's pocket or desk, but they would secrete a lost pocket book should they find one under circumstances such that they
could keep all knowledge of the finding to themcould $k$
selves.
selves.
The early days of the factory systen frequently brought such men to the surface. It was then pretty generally believed that 10 to 15 per cent. of water might be added to milk without the possibility of detection. The producer was unable to distinguish the dilution from pure milk, and sup posing everybody else to be as unable as himself many a man was found willing to avail himself o the supposed situation, to swell his factory divi dends. But soon a better knowledge of milk wa developed, and not only dilutions, but also skimming and saving out strippings could be detected, when frauds in this direction, from being fre quently exposed, became quite rare. Recently however, these fraudulent parties seem to hav been gaining, as several factorymen in differen parts of the country have lately inquired for the frauding patrons The following means for d frauding patrons. The following means for de others as well as to enquirers.
A large aggregate of observations by differen A large aggregate of observations by different gravity of the mixed milk from a herd of healthy cows, taken at $60^{\circ} \mathrm{F}$., is 1,032 , water being 1,000 , and that the specific gravity of such milk never falls below 1,029 , nor rises above 1,034 , unless affected by some extraordinary circumstance. As these are the extreme limits for healthy milk, the courts of New York City have been in the habit of convicting whenever milk has exceeded these limits, especially in the direction of dilution. Such wide deviations from the well known weight of normal milk afford sufficient evidence to convict in any court.
These variations of specific gravity may be indicated on the lactometer in common use in cheese factories. In constructing a lactometer the bulb is placed in water at 1,000 , and loaded till the stem sinks to a certain point which is marked. It is then placed in milk at 1,032 , when a greater length of stem rises above the surface, and the point at
the surface is also marked. The length of stem the surface is also marked. The length of stem units of gravity by which the gravity of milk ceeds that of water, is divided into 100 cyual parts and hence each unit of gravity is represented on and hence each unit of gravity is represented on
the stem of the lactometer by $3 \frac{1}{5}$ degrees. In graduating the stem of the lactometer the lower end or point in contact with the surface of milk is marked 100. To. find the point on the graduated stem which will correspond to a gravity of 1,029 , we have only to multiply the difference between 1,032 and 1,029 by $3 \frac{1}{2}$, and subtract the product from 100. Thus : $100-3 \times 3=90$, the indication on the lactometer for a specific gravity of 1,029 ; and $100+2 \times 3=1064$, the indication for a gravity of 1,034 , and the the same way for any other specific gravity.
A factoryman, therefore, having milk which at less figure than 900 , or a ligher one than $106 \frac{1}{2}$,
ought to be able to convict on the evidence of the actometer alone, because it demonstrats a conhealthy milk.
But to wait for such wide deviations from purity does not afford sufficient protection to factorymen, or it would allow a patron to water till the indiation was 91, or skim till it was 106, and still be within the limit of variation and out of the reach of prosecution,
skimmed milk.
Fortunately there are other ways of proving smaller frauds in which the lactometer plays an mportant part. It has become a well-established fact that the mixed milk of a herd of grass.fed above or below the point indicated by 100 in the stem of the lactometer. Indidaal cows show close to 100 , unless some unusual condition is pres ent to account for a wider variation.
With these facts in view the factoryman may proceed as follows :-By a frequent use of the lac tometer he will keep track of every patron's milk, well suspect it has been tampered with. Suppose for example, he finds the milk of one patron to indicate 105 , while all the rest are close to 100 , it would be a sufficient reason for suspecting skimming or saving out strippings. Having made several observations to the same effect and record ed the result, he will set a sample of the milk for few days in a graduated cream gatge, and note and record the result. Suppose he finds the indi cation for cream to be 8 per cent. at the end of 24 hours at some certain temperature, which we may put at $60^{\circ}$. Haviag settled these facts he may sarm of the patron at milking time to see the milk ing done and that the mills goes to the factery pure. Suppose this milk when tested shows 100 in the lactometer and in the cream gauge, 12 per cent. of cream. After repeating these observa tions a few times, with the same result, he will have all the evidence necessary to sustain a suit for damages, for the facts here developed are proof positive that one-third of the cream had been abstracted in cream or strippings.
Should he find another patron's milk lighter than usual, say, indicating 95 , it would be a sufficient evidence of watering to require investigation. He will first set in cream gauge and note the result. which we will suppose to be 11 per cent. of cream. Then he will proceed as before to see the miking done, and that the milk goes to the factory pure, and that in the cream gange it shows 12 per cent. or twice repeated will be proof positive of water ing 5 per cent, and be sufficient cround for cour This
This mode of testing is applicable where milk is delivered twice a day. If delivered only once a and in the morning, must be obtained and posi tively known to be pure, and tests made as above and compared.
This course of testing will expose all the cases of fraud that are usually met with in factory practice.
Insta
Instances rarely occur in which after milk is made heavy by skimming or saving out strippings,
the gravity is again reduced by adding water till it will show 100 on the lactometer. When fraud appearance of the milk and the cheat demonstrat. ed by the eream gauge, in the same way as in other
cases $=$ rogues suspected of tampering with milk is to send spies to watch them and catch them in the act. But this cannot always be done, and when it
not be the other modes may be resorted to.

Good Points of Ayrshires A writer in a late number of the "North British Agriculturist" says:-
Mr. McAdam, of Rome, New York-perhaps one of the best living judges of an Ayrshire cowsays that "the principal points are her udder and
teats. The udder must reach well forward, and be firmly attached to the body, neither coming out behind nor hanging loosely down; the quarters
alike in size; and the teats set on equally and widely apart, neat and not very large, cut square at the top like a cork-not blown or hanging ogether like a bunch of parsnips under a loose abby bag, as the shorthorns often have. A
beautiful udder is the sine quo non of the Ayr beautiful u
shire cow."
Our opini
Our opinion in regard to milking qualities is that
if the eye be full and lively, the skin thin, soft and mellow, the forequarters ligh.t, with the shoulder top thin; the hindquarters broad, with the hook and calving bones high, though not, presenting a leasing contour; the milk veins arce oped, if a large openng be found in addition, all the better-the purchaser will not; in nine cases out of ten, regret his bargain. It must, however, be in any shape; but the above hints will form a general guide. It may be well also to point out some of the defects which have tended to restrict
the increasing numbers of this breed. The small size is an objection, but on a proper comparison, as made by Robert McAdam, it is found that nine horthorns will eat as much as ten Ayrshires, and
with equal numbers will give a fifth less milk. A feasible enough objection is the relatively poor re sult obtained from the worn-out carcass; but this disadvantage is more than chansated for in he
other good qualities. Small teats, too, are an ob jection, more especially when the milking is done by men; and breeders would do well to give atten tion to this particular. Another defect, likely
descending hereditarily from the native breed of cattle, is the want of docility and evenness of temper, which in a greater degree characterizes otherdbreeds; but here too in the province of th
breeder may at least a partial remedy be found A good Ayrshire cow will give 520 gallons of milk, 480 pounds of cheese, or 200 pounds of butter per annum. She hersef weions wout 5.00 pounds, milk product weighed six times the cow which gave it. Prof. Arnold quotes one which, weighing 1,050 pounds, gave from 6,000 to 8,000 pounds o The milk of the Ayrshire, when tested with the microscope, is found well stocked wlth nitrogen ous matter, and the butter globules are numerous
but very unequal in size. This defect is, no doubt prejudicial to the Ayrshire in butter comparisons, ior the butter is not all got, except by very skilfu churning. A pound of butter is usually obtained
from 25 pounds or $2 \frac{1}{2}$ gallons of milk; but on rom asture, or when well fed, the quantity rerich pasture, or when well fed,
quired will be reduced by a fifth.

## Firm Butter

An Engiish contemporary recommends the folowing as practiced here during hot weather for of churning:-To the cream that is expected to make twenty pounds of butter, add one teacupful of carbonate of soda and a teaspoonful of
powdered alum mixed together. This of cours does not enter into the butter, and if it did it would be harmless, but passes away with the
buttermilk. It is worth trying by those who have butermilk. It is worth trying by those who have ased the ingredients should not be mixed until
the time of putting into the cream, but should be ent

Milk Comes Through Inheritance. A cow eats food and milk is made, says Dr. Sturtevant, in quantities according as the ancestry
of the cow have been good or poor milkers. The "f the cow have or wild cow, gives hardly enough milk
for her calf Feed the wild cow high and her for her calf. Feed the wild cow high and her
yield is slight. Large quantity of milk comes ylerd is slight. Large quantity of milk comes
largely through inheritance. When a cow of any breed has enough food-considered in the ele-
ments of which the food is made up-if there is nothing lacking in the food that is neelful to he
rrowth and health, then I think it is agreed by the best authorities that a mere increase of food will not change the quality of the milk, while it
will increase the quantity.

## Stack.

## Apples as Food for Stock

 by alexander hyde. A correspondent thus writes:-"'You spoke, inone of your recent Times articles, of the use of apples as food for stock. I have an immense crop
of apples and so have my neighbors, and we want of apples and so have ny neighbors, and we wan
to know as definitely as possible how much apples are worth for feeding to milch cows, horses, pigs,
\&c. If they can be fed profitably, it will help greatly in getting rid of surplus crops. I am cider than is needed for vinegar and apple sauce Should apples be cooked or fed raw?
The feeding of apples to stock is no new idea.
We have always fed more or less every year as the crop was more or less abundant, and have alway found great advantage from the feeding. We have often heard it said that apples had a tendency to
dry up the milk of cows. but we have never found dry up the milk of cows, but we have never foun
it true. Doubtless, if cows are let into an orchard, and allowed to help themselves to the extent their stomach's capacity, they would eat too many the animal might be deranged, just as they woul be from eating too much clover or corn. Th effect does not militate against apples as food, any
more than it does against clover or corn. Th more than it does against clover or corn. T
trouble is not in the apples, but in the judicious mode of feeding. Fed sparingly at first till the animal is accustomed to them and the keen
edge of the appetite is dulled a little, they may edge of the appetite is dulled a little, they may
be afterwards fed with impunity to any extent Horses are extravagantly fond of apples, and will be tempted by them when grazing to come to the halter sooner than by the shake of a dish of oats range of an orchard without some previous pre paration for this diet. For six weeks past we
have given our horses a liberal ration of apples daily, and at this moment they are grazing in an
orchard where there are large piles of fruit, but they do not eat them to excess. When turne out in the morning they make the apples the hair and everything about them indicates health and thrift.
Sheep are especially fond of an apple diet, and
are greatly benefited by it. We called on a neighare greaty benefled
bor this week who is celebrated for his production of good Durham beef and Cotswold mutton, and we
did not wonder that his beef and did not wonder that his beef and mutton were
tender, juicy and well flavored; when we saw the tender, juicy and well tavored, when we saw the
piles of apples laid up for feeding the Durlams, and his flock of Cotswold enjoying the free range of his orchard, in which apples literally paved the
ground. We do not suppose the fat flanks of the ground. We do not suppose the fal diet they were
sheep were wholly due to the apple enjoying, but that this made a good food in con-
nection with grazing there can be no doubt. We spoke for a quarter of the next lamb our neighbor
should slaughter, and expect to find it fat and well should sla
flavored.
Our correspondent wighes to know "as deff
nitely as possible how mich apples are worth for nitely as possible how mun apples are worth fle as in other folks, as Mrs. Partington says. A ripe apple has much more virtue in it than a green one, and the different varieties fer greatly in therr
nutritive value. Thus, a fall pippin has more substance in it than a gilli-flower. Prof. Salisbury studied up this subject of apples very
thoroughly, and give the results of his investigations very fully in the transactions of to whic we refer H. C. P., and others specially interested. The conclusion to which the Professor came $m$ ay
be summed up in the following: "The apple, if more, rich in fat-producing products than the $\mathrm{p}^{\mathrm{O}}$ tato. The apple is also richer in nitrogenous
flesh-forming products, and its inorganic constitu-flesh-forming products, and its inorganic constitu
ents are peculiarly valuable." This is high testimony and high praise to the feeding virtues of the
apple, and we doubt whether most practical farmapple, and we doubt whether most pr
ers will subscribe fully to this theory.
This subject was also discussed at the country
meeting of the Massachusetts Board of Agricul ture, at Worcester, in the Autumn of 1876 , when T. S. Gold, a gentleman of large experience and
wide observation, read a paper on apples, in
which ater atating that Prof L. B. Arnold esti mated the value of this fruit fcr milch cows at 12 , cents per bushel, he went on thousands of bushels,
not only as falling from the trees, but gathered in
the barn cellars for Winter stores, for neat stock,
horses, sheep, and swine, horses, sheep, and swine, I would place their value
nearly as high as does Mr. Arnold. The sweet nearly as high as does Mr. Arnol. Thrmefleshed varieties would, of course, be preand yrm-lieshed varieties would, or course, be pre-
ferred, but a mixture of sour ones need not be
feared. The possibilities of yield of an orchard feared. The possibilities of yield of an orchard
are such as to make its value for stock-feeding are such as to make its value for stock-feeding At the very moderate yield of 10 bushels per tree,
40 trees per acre, we have 400 bushels, at 1 shilling 40 trees per acre, we have 400 bushels, at 1 shiling
per bushel, amounting to $\$ 50$ per acre, in addition per bushel, amounting to $\$ 50$ per
to the crop of grass for pasturage.
In the discussion which followed the reading of
Mr . Gold's paper, Mr. Perry Mr. Gold's paper, Mr. Perry, of Worcester, who
is spoken of as one of the most sensible and levelis spoken of as one of the most sensible and level-
headed farmers of that county, said :-"This quaded farmers of therests most of us. I keep
quarge stock of cattle; I have a large quantity of a large stock of cattle; I have a large quantity of
cider apples, and I have fed them to my cows regularly. I And have given my cows about half a
bushel daily, and Ithink that those apples are regularly. all have given my cows abe apples are
bushel daily, and think that those
worth 12 cents a bushel, as we are selling milk now worth 12 cents a bushel, as we are selling milk now
in the city. Instead of selling apples at 8 cents a bushel, Ity. Inould give them to my cows, because they not only increase the quantity of milk, but
they furnish nutriment to the cows, and, of course they furnish nutriment to the cows, and, of course,
they require less of other articles of food. In my chey require less of other articles of th, in my loca-
opinion, a bushel of apples is worth tion, from 8 to 15 cents to feed the cattle. Mr. Hicks, another practical farmer, said : "I
have fed a bushel of apples a day to each of my cows for the last six weeks-half a bushel night ans for the last the quality of the butter is bet
and morning and ther I know their feed has not been as good as it
ter was previous to feeding the apples, but the butter is better-its flavor is better. I am satisfied that
apples not only increase the quantity of milk, but improve its quality also.
Here we have the united testimony of the pro-
fessors and practical farmers that apples are worth essors and practical farmers that apples are worth
from 8 to 15 cents per bushel for feeding purposes That there is more virtue in them than is commonly supposed we do not doubt. They are often
spoken of as watery trash, but the per cent. of spoken of as watery trash, but the per cent.
water is only a little more than in fresh beef, and less than in many vegetables that are highly es-
teemed for feeding, 1000 pounds of fresh apples teemed for feeding, 1000 pounds of fresh apples containing, as the average of several analyses,
170.4 organic matter and 2.6 ash or inorganic constituents. This inorganic matter is rich in hair and bone producing material, the ash of an
apple yielding 1-14th per cent, of phosphoric acid IT of phosphate of iron, 42 of potash, and nearly
00 of soda. It would be exceedingly desirable if farmers and all men would eat more apples and furnisi more for their more to their stock. There is not only bone and brain in an apple, but there is health and elasticity of spirit. .The $2 \ddagger$ p.c. phosphate of iron found in the ash of an apple makes it and to the stomach of most people than any other veg etable acid excepting grapes. The fattening constituent is chiefly sugar, or wont varying but little
there is 8 per cent, the amount there is 8 per cent.,
in sweet and sour apples so that one is just about
ane as yood for feeding as the other. We can see bur
little difference in the relish with which they are little difyerence
eaten by stock.
Our correspondent asks whether apples should
be fed cooked or raw. We formerly cooked apples Or swine, but have not done it for years. Cook most fruits, and we prefer to eat them ourselve. it may be well to cook them sometimes, but cook ing costs something, so we prefer to make We can't
of food for stock in some other way. Whis year of forbear to say in conclusion wiat make a thoroug plent of the virtues of apples for feeding stock, and
triali lay in a buantiful store for family use.-[N. Y. wili lay
Times.

## A Young Shepherd.

Among the entries of the late New York State
Fair, says the Hustrandmen, were some sheep bred Fair, says the Hust,nidman, were some sheep breet
by a lad who a few years ago ostarted histlock with
a ewe purchased of his father. He has bred his a ewe purchased of his father. He has bred his
sheep with great care, securing the use of high bred males, and has now a flock of twenty-three head of tirst-classds each of washel wool, which
season six pound
brought him somethingover 40 . He has his flock of sheep and $\$ 125$ at interest. The mo
rived from the sale of lambs and wool.

American Association of Shorthorn Breeders.
The Lexington Live Stock Record, in referring to the coming meeting of this Association, makes some very appropriate remarks on the importance of this subject to breeders. He says :
This is a very important assembling of the Asso-
ciation. At it, the officers, from President down, for two years are to be elected. Hotel and railroad charges are to be reduced to members attending There never was a more important period in the
career of shorthorns in America. The now existing and increasing demand for American beef in England, the annual increase of our own popula tion, and the decline in the relative consumption of
pork in all its shapes, bacon, hams, salt pork, \&c. accompanied by an increased relative consumption of beef by our people, all indicate a great increase
of feeding cattle of feeding cattle. The merits of the shorthorn
and the large number of breeders of shorthorn show that they are the only cattle now able to meet this increase of demand for beef. For months the export or ive catlie from America avgland has exceeded 1, ancan cattle have during those months been offered and sold every week in the London Metropolitan market alone (one exported from America and sold in the dead meat exporket of that city. This live cattle export
originated only last spring, and it is already in originated only last spring, and it is already in
amount equal to one-third of all the live cattle sold amount equal to one-third on thind London, English, Contiuental and American, all together.
Such is the Such is the present state of this great oattle and
meat traffic in America for England. Its future mean can predict.
man can predict. Association soon to meet is the
This American representative in a combined form of the grea
shorthorn interest in the country. There ha never been in its existence a year so important for its asssmbling as this one, and out of it should cume great good to the interests and the capita
engaged in producing shorthorns which it repre engage,
sents.

## Turnips for Cows.

Mr. Nathan Hart, at a recent agricultural meet ing in Connecticut, in advocating the use of tur
nips for feeding milch cows, said : "A few winter nipn or was feeding common turnip, and when the supply was exhausted 1 had the curiosity to esti-
mate the value of turnips per bushel for feedin mate the value of turnips per bushel for feedin
purposes frem the returns that I actually reeeived prospose from the returns that actualy reces
from the milk. We were then getting 6 cents pe quart for our milk. The diminished How of mill
resalting from its discontinuance shows that tur resulting from its discontinuance shows that tur
nips were worth 25 cents a bushel to feed to cows nips were worth 25 cents a bushel to feed to cows
I refer to the common flat or field turnip. But to their saving hay 1 do not think they do. 1
think they act as an alterative, and their use will think they act as an alterative, and their use wid
cause the cow to more perfectly digest her food It seems to be adapted to the wants of the cow,
and produces a good digestion. I feed just before milking."
Mr. Hart practiced feeding the turnips just be Core milking at night. Immediately thereafter the that they induced any bad odor in the milk, but thought it important to begin feeding them gradu
ally and to slowly incrase the


The Best cow for small farms
Our opinion and also that of the principal dairy called Alderney, is above all others the best cow They are easily kept, very docile - a point not
be overlooked-and beautiful, give milk of superior
richness, from which is produced finely colored richness, from which is produced ineely colored
solid lutter, having an cyual texture and flavor.
D Butter made from such milk has been known to
keep when placed in a dry, not cold, cellar, with. out the use of ice, and when taken out was in a
ourl, firm condition, and was then sold 12 to 18 cents per pound higher than best ordinary butter. Henry Milward \& Co., brokers of Chicago, in
their cighteenth annual report in regard to the their cighteenth annual report' in regard to the
prospects of the coming season's supply of hogs
and corn, say that it is senerally believed that there is an increase of fully 20 , ver ent. in the
hog supply, while the corn-crop will be the largest
ever known.

Keeping up the Standard-How it is Done.
What guarantee has a young breeder that, if he buys nice animals with pedigrees that are reputed to be good, he can keep the standard up, and continue the improvement?
T. L.
the beginner

If the wish is to breed Shorthorns, the beginner wiil be very careful to procure those that are altogether Shorthorn in blood. If he incline to breed goose, he has a guarantee that either of these will duplicate itself with unerring certainty. It is not difficult to answer why this is so. It is the longcontinued breeding in a line, and in proportion as
the progenitors have been of fixed unvarying the progenitors have beel of dixed anvarying form, like the parents; the precedence being due to those longest bred alike. This is a law which you can neither ignore nor turn aside, and no one
should attempt to rear the better styles of farm should attempt to rear the better styles of farm
animals if he be not possessed of sufficient intelli. gence to divest himself of prejudice, and follow a
formity, and its young grows, looking as like each
other as so many grains of wheat. But notwith-
and other as so many grains of wheat. But notwith-
standing the higher types of all improved animals
se standing the higher types of all improy some men
are quite deeply fixed, and are bred by sed
in such manner as to keep well ahead of the plainer in such manner as to keep well ahead of the plainer
kinds, the novice at the difficult art of breeding is kinds, the novice at the difficult art of breeding is
apt to be captivated by appearances, and may go apt to be captivated by appearances, and may
far astray. Some high grades are very attractive, inclined to fleshiness, thick, and well packed in all the essential parts. A low. bred thoroughbred may be very captivating, but eight times out of ten,
may prove valueless as a getter to those whose aim is reasonably high up. The uniting of famity peculiarities through the male and female line in a
herd, to the end that changes will mean improveherd, to the end an thanges wackward, is not in
ments rather than steps taken back the power of a mere beginner to do, solely on his own fancies. Hence it is of the utmost importance to him to use such blood as has proven of high
value, regularly, either through the individual value, regularly, either through the individual
himself, if he be of suitable age, or otherwise through the reputation of the herd from which he tion of the particular strain of blood to which he belongs, wherever formed. - Western Farm Journal.
cold and put on any extra fat. Young farmers
who start on limited wrincipally on their brains and muscles to enable princm to make a profit on their farming, have to wait until the future for well-built handsome-
barns and other outbuildings till the farm has rebarns and other outbuildings till the farm has
turned enough profit to warrant such an outlay. But this fact should not prevent an effort being made to provide winter shelter for the cows and
other stock. Against the side of the barn, in the other stock. Against the side of the barn, in the
barnyard or some other convenient enclosure, o against the high board-fenve which may enclose orie side of the barnyard, buill a skeleten-shed by
planting crotched sticks (timbers) obtained from planting crotched sticks (timbers) obtained from
the woods. In these crotches lay other timber sticks strong enough to bear considerable weight. On these lay old rails about a foot apart. You now have have your skeleton shed and require piled
roof, which is made with corn fodder neatly roof, which is made with corn fodder neack. This makes a excellent protection, at the same time
having the fodder in a convenient place for feed. having the fodder in a convenient place for feed
ing during the winter. If the fodder has been ing during the winter. o the the rain, but little placed properl sam it will be damaged. By making the shed deep
and not too high - merely high enough for a man

line of action either laid out by himself or by some one competent to do this difficult thing We take this oecasion to say that the notion
that the outward form comes from one parent the internal structure and constitution comes from the other, has no foundation in reason nor in fact. tion of physiology, and of the laws governing the perpetuation of animal life. The animal long est bred in a line, the outward form of the ancess
tors having been like the immediate parent, tors having been like the immediate parent,
whether the sire or the dam, will be the one that will, four times out of five, largely determine the make-up of the progeny. If the parent which
excels in these particulars excels also in constitution, the relative preponderance will be still greater. Going out for new blood to cross with is one of the ways in which beginners scatter shot
and miss the mark, because they do not sufficiently study the needs of the herd, nor do they go back in their investigations as they should. Like will not beget like unless, as hinted, the type takes its
origin far back, and has been noted for its uniorigin ar back, and hamediate family, and for its tendency to crop out in all the outgoings of its other wild thing which always produces with ani

Grand Duchess 1\%th, whose portrait we present to our readers this Month, is one of the most noted Shorthorn cows in
Fingland, not alone on account of her high breeding and wonderful development of flesh (whilst in her prime her shape wap about perfect, conjoined
with great style and character) but more particu with great style and character) but more particu-
larly as a breeding cow having produced in eleven years eleven living calves, six heifers and five
yulls, the latter seling bulls, the latter selling at very high prices, and
are being used in some of the best herds in Eng. are being used in some of the best herds in Eng.
land. Her measurement when in breeding condi1and. Her measurement when in breeding condi-
tion was: height 56 inches, width of loin 20 inches, tion was: height 56 inches, width of loin 20 inches,
hips 25 inches, length of quarter 21 inches, and
girth 85 inches. girth 85 inches.
She was purchased by Capt. Oliver for about was the American-bred exported Oxford bull

Cheap Sheds for Stock.
To realize the best returns from all kinds of
stock it is absolutely necessary to shelter thern well, else it will take much extra food to keep
o walk under at its lowest pla ggainst the south or warm side of the building or fence, the animals will have a comfortable place to winter under. They can go under at pleasure by
having it open in front, and during mild days can having it open barnyard, while in stormy weather the shed can be used. We have seen temporary pig-pens thus made, and they answer admirably,
being warm and comfortable ; and also colts win being warm and comfortable; and also colts win
tered under just such sheds, and they came out in the spring as strong and hearty as could be ther in Narmen.

The Australian wheat, sent out by the Agrical tural Department about four years ago, is described by J. D. P. of Petersburg, Va., in the Country Gentleman, as a large, plump berry, rather soft when first sent here, but has hardened very much stalk very stiff, and stands better than any othe nown. The leaves and head are of a bluish-green t yields here this year about twice as much per acre (sowed the same day, in same soil, side by
side) as the Fultz. Can be had there for about $\$ 3.50$ per bushel by the five to ten bushel lots,

## 

## Seasonable Hints -November.

## by horrus.

Plantivg.-Much is said for and against fall planting, but the remark aptly applies that it is as the fact that careless and indifferent planters do not succeed well any season, or when all the ele ments combined to ensure success are in their favor. In the principal fruit-growing districts, in the southern and western portions of the province, or where winter-killing does not prevail, fall planting may be practiced with every success, for at this time of the year the soil is generally drier and in better condition, and can be plowed and prepared at less cost than in spring. Having the ground drained, no risk is incurred if the usual onditions of planting are complied with, such as digging the holes large enough to receive the roots without bending, spreading them out with the hand carefully so as the readily and evenly in contact with the ane soli hrow in amongst them, mulching on top well over the disturbed earth -not misable forkul or two but a beod, hing half-dozen, neatly placed around the tree. Staking is indispensable, and speaking of that, attention is directed to remarks and illustrations given in the Sept. No. of the Advocate, showing the evils of not staking and the benefits from so doing.


It is now too late for handling the general run of evergreens, nor would we advise the late plantof evergreens, nor woule, vines or roses, but chestnuts, elms, and the ordinary line of deciduous trees, particularly the lareh. Extra large speci-
mens of pines and spruces, to be planted for effect, may be safely removed by digging a trench around the roots and under them, leaving a ball of earth attached. This should be left till hard frozen, when the tree and all attached may be taken to where it is required to be planted. Of course the holes for them to be planted in would have to be dug before the ground freezes. Attention is directed to the French method of training apple trees
or other fruits in the October No. of the ADor other fruits in the October
vocate; this system would be particularly appliVOcate; this system
cable to those sections of the country where fruit cable to those sections of the country or where the cannot be grown in the the snow line, as in Muskoka and north of Ottawa.
rand atawa.
PruNiNe should be done now as much as pos. the marger

| attains the diameter of four inches at the juncture | whole key to success. Asparagus seed does well |
| :--- | :--- | :--- | with the main trunk, it will be folly to attempt to cat it of; better far to leave it on, no matter how branches and shorten in the ands the old bark will get rid of countless insects. don this will lay bare their hiding places, and dang the larva to the tender mercies of " Jack Frost" Gooseberries and currants hardly ever get the requisite eare in eutting back and thinning out that the production of good fruit, and plenty of it,


demands. So, do not spare the knife and spoil the plant. Grape vines should be pruned and pegged down. Vines trained to the stake require the leaving two or three of cutting back to one bua, leaving two or three of the strongest canes of this four feet. Those grown to trellises need the two year-old wood cutting back, leaving this canes to bear fruit next summer Many persons fond of grapes are deterred from cultivating them by the fear of some great mystery or art being connected with the manner of training the vine A little determination and study on their part of the habits of the plant will make them as wise as they could wish to be.

- Propagation. - Cuttings may be made and planted now of currants, gooseberries, willows, poplars and many of the flowering shrubs. Make them of good ripened wood, about ten inches long; plant them in a trench, leaving a bud exposed over ground; they should be well mulched after planting. A day or two devoted to this work will be buried in the soil or kept in a cellar till time be spared to make up into cuttings. Tied up in

small bundles and packed in sand, they will, be ready for planting at the proper season. Cions for grafting apples, plums, \&c., should be gathered before severe weather sets in, and packed away in sand or sawdust. Seeds and nuts of all kinds of fruit and ornamental trees shonld be sown now, if not already done. Sow thickly in shallow drills two feet apart, sandy soll preferred. Place a thick coating of horse manure over all. Mulching is the
sown in the fall. To have delicious esculent sow the seed thinly in ground well trenched and heavily manured; have the rows about eighteen inches apart and the bed say four feet wide. To have large stalks of rhubarb divid and replant a portion of the old bed in soil well Prepar
most importans for Winter.-This will be the most important work of all during November, and ing caught man will be on the alert for fear of beeliable. You will. Weather prophets are not prepared than by pind it more profitable to be prophecies. Exaying attention to fine weather chard and garden, and operains through the or low places. Collect any litter or leaves to be had for the careful covering of beds and borders. Raking off the leaves, \&c., on beds of shrubbery, roses, evergreens, \&c., is not a good plan, though an injurious effect order and nealness. It ha would be better to throw on a fow inches of soit covering any litter up, and when forked in in spring would materially enrich and improve the growth of the plants.
Peaches, quinces and other half-hardy trees may be easily protected in the winter by the way here illustrated. In fig. I we have the tree or bush tied up with willows or rope ready to receive the cov ering. For this purpose rye straw is the handiest or neatest, but corn-stalks or old mats would an swer. Standing the straw upright around the tree on the ground, the first layer may be tied in position; next the second layer, and so on till all is minutes - look the lig. 2, a task of fiv and grape vines we show the plant pegred down fig. 3, finally covering over with earth throwing up in a mound-like form, and patting it emoothly with the spade, as in fig. 4. If the ground should be frozen before this is done, use dry manure or straw. Cover strawberry beds with evergreen


Tender plants, as L'Entanas, Heliotropes, Can nas and Salvias, may be kept by those not having a greenhouse, in the cellar, or some warm, dry roses require keeping in a warm, dry place helves, or packing away in boxes in pand An occasional inspection in the winter wili be neces sary to see how they are keeping. Monthly Roses, Geraniums, and other plants intended for window howering, require special care during this month, that is, those which have been lifted from out of the beds; they require severe cutting back and potting into nice rich soil. Keep plants damp while handling, and put them in a cool, shady place for a few weeks; from this lig be brought into moderate ingly till new roots a

## Leaves as Fertilizers.

 Pine leaves are less than one-half as valuable for The leaves of deciduous trees retard the pous trees. decomposition when mixed with manure and of often used for this purpose in hot beds. Pine leaves would promote decomposition by favoringthe admission of air sufficiently to hat cess. This, however, does not indicate that they possess value as a fertilizer superior to decidnous
rees. possess value as a fertilizer
trees.-Springfiell Union.

## Currants.

by ei. m., drummondville, ont. When there is a short crop of raspberries, currants are a profitable market crop.
If the worms attack the foliage, so much the better for the grower who has sense enough to use hellebore. Very often they manage to live and produce some fruit when planted in a fence-corner. It would be much better, however, to plant them where the cultivar an with curran reaches is always in order
To prime them a pair of grape sheers and some common sense are useful.
The Cherry is a very large and handsome red currant, but probably not so profitable as smaller varieties. The Red Dutch has been considered the most valuable of the reds, but it drops it leaves, in season and out of season, upon th slightest provocation. The Ruby Castle retains its leaves till November. At this date (Oct. 18) it is in full leaf, while all the other varieties, ex quite distinct from the Red Dutch, though it fruit differs but little from it. I fancy that it has larger bunches and better and somewhat larger fruit. As it holds its foliage, the fruit ripens perfectly, and will remain for a long time on the Dushes, i. e., if the robins give theirl courat for 10 cents per quart, with demand for a muci greater supply
White Grape currants are very handsome and o superior quality, but not very salable. The bush is a slow grower.
The White Datch is a handsome grower, but the fruit is inferior.
The demand for black currants has seemingly increased greatly of late years. Four years since were not obtainable in Canada or the United States. At the present time there is an abundant supply at reasonable prices. The Black Englis is saperseded by the Black Naples. A variety still more productive than the latter is needed, and Lee's Prolific professes to meet that require ment. Whenever a mere qualification in an kind of fruit is demanded, a patriot forthwith springs to the front with a new variety, possessing the follows demand, and demand follows supply, for demand follows supply, for these patriots demand pretty tall prices, and sometimes deserve them. New fruits are never still-born, but most of them have very short lives.

## Keeping Grafts Through Winter.

Nurserymen who cut large quantities of grafts late in autumn keep them in cellars packed in damp moss; but farmers and others who wish to preserve a few for spring grafting may not have perfect mode is to bury them in a dry place out of doors, in an inverted open box. three strips across to keep them in place, and then place the
box in a hole dug for the purpose, with the open box in a hole dug for the purpose, with the open
side down, and bury them half a foot or so in depth. They do not come in contact with the
earth, and remain perfectly clean; and the moisture earth, and remain perfectly clean; and the moisture
of the earth keeps them plump and fresh without of the earth keeps them plump and fresh without
any danger of their becoming water-soaked.
Grafts which have become shrivelled by exposure any danger of their becoming water-sposure
Grafts which have become shrivelled by exposur
are thus restored and will grow. It is often adare thus restored and will grow. It is often ad-
vantageous to cut grafts in autumn, as there is vantageous the cut grais vitality being lessened by
then no danger of their
exposure to intense cold, and it is often more conexposure to intense cold, and it is often more con-
venient to cut them or procure them from a disvenient to cut them or procure them labels with a
tance at this time. In making the laber
lead pencil, remember that if the wood is wet belead pencil,
fore writhe names will last ten times as long
as if written dry.-[Colman's Rural World,

## Late Transplanting of Trees.

 It sometimes occurs that it becomes necessary totransplant trees late in the season, or after the buds have swelled, or new growth commenced. This
can be done quite safely if due caution is given in protecting the roots from light and air. In re-
moving trees or small shrubs after growth has commenced, we have a watering-pot full of water near by, and as soon as the tree is dug up, the roots are re-sprinkled until every one is thoroughly wet; then
the earth is scattered over all the large roots and small fibres, thus preventing them from being affected by the light, as well as beeoming dry while being packed up or removed from one part of th
grounds to another. A portion of the branches is also removed, and usually it is best to do this before digging up, because the pruning can be done tree is fixed in the earth than afterward; besides, it lessens evaporation in proportion to the number of
young shoots and leaves removed. Trees and young shoots and leaves removed. Trees and safely even after growth has commenced in spring, if these precautionary measures are strictly fol-
lowed. Where trees have been left heeled in until rowth has commenced, the roots may be puddled arth and water of the consistency of thin mortar. This should always be done when trees are to be et out on a wandy ney, orf difference in the growth the first season, even if other conditions be favor-
able.-Rural New Yorker.

## Protecting Trees Against Worms.

The bandage system, which we were the first to sugest some twenty-five years ago, and have often
referred to since, is the only effectual protection we have yet seen against the operations of the
worm in fruit trees. We repeat again that in not vorm in truit trees. We repeat again that in not dwarf pear trees where this was properly attended o. It is simply to bandage the bottom of the
tree with any kind of muslin or cloth, and tie it ree with any kind of musin or cloth, and tie it,
letting the bandage "be about six inches above letting the bandage be about six inches above
ground and two inches below. It should be ap-
lied as soon as the ground is in a fit condition to plied as soon as the ground is in a fit condition to
go upon. These bandages should be removed at go upon. These bandages should be removed a
the end of October, but it will do no harm to let them alone, only that they remain in good condi-
tion for another season. As long as this is contion for another season. As long as this is con
tinued we defy the worm. The beetle lays its eggs an inch or two above the ground early in the
spring, that is as soon as the warm days in spring, that is as soon as the warm days in
March will admit of its coming forth from its winter-quarters, the eggs are soon hatched by the sun, being laid on the sun-side of the trunk, and
the young grub finds its way down to the soft bark beneath the soil where it gradually works its way
in. The bandage prevents both the laying of the eggs and the descent of the grub. Let doubter
try it. One man will bandage two hundred tree ryy it. One man will bandage to hundred tree
in a day. It may also protect the peach tree in in a day. It may also protect the peach
the same way.- Germantown Telegraph.

## Trees and Rainfall.

From some observations by M. Fautrat relative
to the comparative influence of leafy woods and resinous woods on rain and the hygrometric stat of the air, it appears that pine forests have a much
greater influence on the hygrometric state than others; so that if the vapors dissolved in the ai were apparent
forests shrouded in a large screen of moisture, and in the case of resinous woods the envelope would
be more pronounced than in that of leafy woods. be more pronounced than in that of leaty woods.
M. Fautrat also shows that pines retain in their branches more than half of the water which is pourper centum of the precipitated water to reach the surface of the ground. He suggests, therefore
that in planting with a view to oppose inundations it would be advisable to choose by preference resin-
ous trees, as offering a better covert. $-N . Y$. Post.

To Increase the Calla Blossoms. To obtain two flowers instead of one from every To obtain two flowers inste
flowering sheath of calla-lily :
As soon as the joint flower is cut or begins to
wither, pull the stalk down through the open sheath clear to the bottom. At the bottom will be
found se closed in a delicate covering; cut the old stalk
con away as close as possible, without injuring the bud,
and if it has not been kept back too long it will
grow up quickly.

## Hints for Winter Gardens.

 Select if possible an east or south window. Our ays are short, plants need light, and as we can important that there should be as much of brighthess and warmth in it as we can furnish. If an east or south window cannot be had, then a west one is better than a north.The room should be one where the night temperature does not fall below $40^{\circ}$, and not maintained much above $70^{\circ}$ by day; also it should be one not usually occupied by the family in the evening, for at night we draw the curtains, stir up the fire, light the lamps or the gas, and increase
the temperature several degrees above the aver age temperature of the day. But plants require that when daylight fades the temperature should
decline. Night is their time for rest, but they cannot rest if the temperature be as high or higher than it was through the day. The effect is similar to that produced upon a hu
ing him of his wonted sleep.
Arrangements should be made for giving the -
plants fresh air whenever practicable. The most convenient way is to have the upper window-sash movable; let it down at the top, taking care tha
the plants do not stand in a danght of cold air, and admitting it in quantity proportioned to the weather outside-when it is cold and frosty, very
little or little or none at all, and more when the weathe is moderate.
The leaves of plants need washing in order to
remove the dust that gathers on them and fills up remove the dust that gathers on them and fills up
the pores. Geraninums and like hairy and softleaved plants are seing them thoroughly through a fine rose. Glossy-leaved plants such as Camel-
lias require to have the leaves sponged off one by one. In all cases soft and tepid water should be
nsed. The washing should be done often, say used. The
once a week.
In watering use tepid water, and learn the re-
quirements of the plants so as to ad apt the amount to their need. An Ethiopian Lily will rejoice in water that would kill a Cactus.
The drainage of the pots should be perfect so
that surface-water can escape through the hole in that surface-water can escape through the hole in the bothom. If the pots stand in saucers, pour off
the water that runs into them, and not let it soak into them again. Yet this rule, though of very general application,
case of a 1 uatic plants.
A very common error in window-gardening is are crowded into the little space at command , so that it is impossible give each the light and air it
should have. Again, plants of too diverse character are brought together. It is no uncommon
It thing to see tropical plants and those from the
temperate zone, if not even Alpine plants, all temperate zone, if not even Alpine plants, all
c.owded into the same window, and subjected to the same temperature and treatment. Better far the same temperature and treatment. better far
to have one healthy and well.-grown plant that
will yield its flowers in perfection, than a dozen will yield its flowers in perfection, than a dozen
sickly, feeble, wretched plants, that have no sickly, feeble, wretched plants, that have no
beauty either of leaf or blossom. - [Fruit Recorder.

## Currants.

The Floral and Fruit Magazine says:-
" You can have fresh currants several months this way :-In Germany currant bushes are
rimmed up with one stalk in regular tree shape. As soon as the currants are ripe-not dead ripethey take nice straw and make stacks over the ashes the wish to preserve, tying the straw at having the stack so thick as to exclude the air. If they cannot get the straw, they take old clothes
and tie over the bush, drawing them close around the tie over the bush, drawing them close around rants from my bushes, merely protecting them in he latter way.
In this connection we may remark:-It has long been a practice with those who wished late cur-
rants to plant the bushes at the north side of a tight fence or under the shade of trees, giving them some liquid manure during the season of growth.
When they are wished to be kept very late, we have found it a good plan to compress and tie the bush in the shape of a cone; tie a bundle of rye
straw next the tops, spread and place over the straw next the tops, spread and place over the
bush to shed the rain from it, but not so as to en-
tirely exclude the air.

Agratulture.

## Live-stock and Wheat.

by prof. manly miles, lansing, mich
The remarkable differences in the yield of wheat per acre in 1877 in the leading wheat-growing orles office of the Seret of study the conditions that have apparently de ermined the variations represented in the censis tatistics, and trace their relations to the wellestablished principles of farm practice.
In themselves the statistics are incomplete and unsatisfactory as they fail to state the number of animals in each locality to each 100 acres of improved land in farms, and the proportionate area of land under cultivation that is devoted to wheat -the two elements of the greatest importance in solving the problem under consideration.
As the required data are not furnished in the census statistics of 18,7 I have compiled them
from the previous census of 1874 , which, although not, perhaps, representing the facts required in 1877, are the best approximations to the truth within my reach.
In discussing the materials at command I have arranged the results in the form of a diagram, which exhibits the yield of wheat per acre in each county in 1877 , together with the number of acres of wheat in 1877, and the number of cattle and sheep in 1574 to each 100 acres of improved land n 1874.
In this diagram the relations of the yield of wheat per acre to the number of cattle and shoep most striking manner.
The counties that have an average number, or more, of cattle and sheep-with two exceptions that may be readily explained by local causeshave more than an average yield of wheat per acre, while those that have considerably less than the average number of cattle and sheep have less than the average yield of wheat ; and in the latter class of cases an increased acreage of wheat has the effect of diminishing the yield of wheat below what might be
of live-stock.
These results, although surprising from their These results, although surprising they are in uniformity, with principles of farm economy that are recognized by all intelligent farmers.
In a country where commercial fertilizers are not in general use the supply of barnyard manure must furnish a fair index of the fertility of farms that are nearly equal in natural productiveness, and the proportionate number of cattle and sheep kept on the farm will best indicate approximately the quantity of manure at command.
The acreage of grain must also have an influence on the results. An excess of sing supply of manure and high tillage must tend to produce a diminished yield per acre while with a liberal manure supply the yield of grain may be retained at a high average, even with an increased acreage.
Success in wheat-growing seems therefore to de pend largely upon the attention given to live stock, and the statistics under "iscussion agree
fully with the old-time saying, "The more cattle fully with the old-time saying, "The more cattle crops."
South Australia has this year producell an enor mouth Australia has crip of cerala, but there is a difficulty in
harvesting, owing to the scarcity of labor. That the crop may not go to waste, the Government has offered, through sir Arthur Blyth, the Agent
Cieneral in London, a reward of $\$ 20,000$ to the American inventor who shall prodeace
machine for reaping and cleaning wheat.

Wheat and Potatoes-Poor Seed-Fall Prospects in the United States. We are in possession of reports of the fall crop in the States. The general tenor is a greatly in-
creased area of fall wheat, with the present promise of the crop not favorable on the whole. We cannot, it is true, speak at present with certainty of a crop that has so long a time to recruit any present deficiencies, but all are desirous to know What even the earliest promises may be. From the Country Gentleman we take the following comthe State of New York:-
The dry weather cont
that wheat has that hard, bare and the result is cates a poor crop. There is less injury from the fy than last year; but the plant with few exceptions is making a slow growth and is not stooling out as usual. Part of this failure is probably due
to defective seed. So far as I have noticed wheat from seed of 1877 is looking better than that of the new crop. I am afraid that this defective seed the fall growth. Last fall the wheat plant was so much eaten by insects that the centre stalk was destroyed. What grew afterwards were side shoots, producing short and imperfect heads.
Everywhere we hear complaints that wheat is not turning out well. Even where there is a large
growth of straw the poorly filled heads disappoint at threshing time. The result of sowing such wheat will probably be very like that of planting
corn from ears grown on suckers. In every crop of wheat we probably get a large part of the grain
from these side shoots, and all is sown indiscrimin from these side shoots, and all beisg in part the prôately. ofentral stalks it is all from the secondary
duct of cent
shoots which grew up after the first of last November.
Another crop which this year is failing exten-
sively from defective seed is potatoes. In no other way can I explain the wide-spread and al most universal failure everywhere reported. I an
afraid that the seed of our potato crop, even of the productive varieties, has become impaired. New varieties do not retain their proilicacacy. It it
partly owing to the ravages of the potato beetle, partly owing to the ravages of the potato beetle,
and sometimes doubtless to the bad effects of Paris green on young and tender vines. I have
heard of and seen so many examples of this that I have no doubt of the fact. If the vine is young
hr has young leaves, the dilution of Paris green or has young leaves, the dilution of Paris green
must be very weak or it will sear and burn the leaf. It does not matter how a potato leaf is de
stroyed. Anything which injures the leaf destroyed. Anything which injures the leaf de
teriorates the crop both in quality and quantity Potatoes grown thus are watery and immature
Two or three years ago a neighboring farmer Two or three years ago a neighboring farmer
thought to head off the potato beetle by mowing his vines in July. What few potatoes he got were
unfit for eating. All over the country it is such unfit for eating. All over the country it is such
potatoes as these that have been used as seed. potatoes as these that have been used as seed. hills-sometimes as many as a third or a quarter the plant was spindling from the start. Unless the plant was spinding from the start. potateos
we learn the lesson to save well-ripened por
for seed next spring, the experience of this last for seed next spring, the experience of this last
season will be repeated. One of your young correspondents predicts that potatoes will
worth 82 per bushel next spring. I doubt whether they will sell as high as that with wheat and othe
grains as low as they are; but if he had said that grains as ow as they are; but he hal sine po
every bushel of well-formed and well-ripened po
tatoes will be worth as much as two dollers to tatoes will be worth as much as two dollers to
plant, I will endorse his position. Good seed was plant, I will endorse his position.
scarce last spring, and careul as I was I could
have better afforded to pay $\$ 2$, or even $\$ 3$, for a bushel of superior seed than to plant some that did. And yet most of my seed was very carefully
selected. It sets a man to thinking when he digs selected. with 21 to 3 pounds of potatoes, and right
one hill
beside it another hill which. will not yield half a pound.
With regard to prices of potatoes, the market
has been steadily advancing for over a month. Shippers now pay $6 \overline{5}$ c. per bushel for Peerless, and
70 to $\overline{\mathrm{Jc}}$. for Rose and other choice varieties. In Spencerport shippers have paid as high as 80 c . per
bushel for Rose. The Rochester market has been mostly supplied 2455 to 70 c . per bushel; but the tatoes will be taken there.

Blasting Stumps and Boulders. Dynamite amiong stumps and boulders remains a
avorite subject with numerous correspondents, some of whom appear nuuch confused as to the reations of dynamite with giant powder, while these are in fact the same thing, the former being the
European and the latter an American name. It is of two grades - No. 1 and No. 2 . No. 1 is not only
more powerful but more explosive, more powerful but more explosive, and is not at
all affected by water; therefore it is reserved all affected by water; therefore it is reserved
for the very hardest work and for cases requiring
long exposare to water long exposure to water.
Owing to the great difference in the capacity be-
tween the old and new powder, the novice in the use of the latter will be liable to overcharge, and while the manufacturer's sales are accompanied with as minute directions as possible, dynamite no more admits of deninite rules as to the quantity re
quired for blasting than do other explosives Much must be left to the good sense and experience of the blaster; therefore the advisability of
securing the services of an expert who shall either securing work or give instructions suitable to the location, character of the material to be blasted,
the purpose of the blast and other circumstances the purpose of the blast and other circumstancoe
that govern the quantity. The most favorable seasons for operating upon stumps and rocks are in
the fall and spring. Wheressaving of time is the fall and spring. Where⿻saving of time is an
object dynamite applied by tone who understands object dynamite applied by tone who understands
the business is a most valuallo assistant, but it is recommended that any one ignorant of its nature and results should not attempt to operate with it.

Cut or Ground Hay In some places hay is cut into inch and half inch pieces and then groun, for the purpose o
feeding cattle, horses, \&c., in the belief of it Yeeding to the, nutrition of the food. We always
adding
douted this theory, for the reason that hay fed in doubted this theory, for the reason that hay fed in
the usual manner performed all the offices of nutri the usual manner performed all the offices of nutri-
tion, as it was perfectly digested, and there wa tion, as it was perfectly digested, and there wa
nothing more to be attained. But, in order to
sustain our theory sustain our theory, we consulted an old, careful
livery-stable keeper, who had many horsee, and who, in a long series of years, stndied the profit
and loss in the various supplies for his stock. and loss in the various supplies for his stock. H
said there was nothing gained in feeding cracked said there was nothing gained in feeding cracke
corn, but, on the contrary, there was a loss in th corn, but, on the contrary, there was a loss in the
increased price demanded for it. Also, that cou
hay was a loss to the extent of the labor, which hay was a loss to the extent of the labor, which
was by no means a trifle. Good hay-and none was by no means a tritle. Good hay-and none too much is given at a time. Oats should be fed
whole, mixed with a little bran and moistened whole, mixed with a little bran and moistened a couple of ears of corr in the cobe, and they were
greatly relished. His horses were in the beet of greatly relished. His horses were in the best
health, having lost but two by disease in thirty-years.-[Germantown Telegraph.

## Experimental Farms.

We are pleased to note the increase in the
number of experimental farms. Mr. J. Wright son, for twelve years Professor of Agriculture in Ene Rlayal Agricultural College at Cirencester,
Endil open, after Christmas, a privat chool for agricultural students. The farm selected
comprises 534 acres of land, with a flock of 550 ewer and a dairy of thirty-tive cows. It will be seen that the Professor aimed to have one sheep to
the acre of land, whic 1 is the proper number in the acre of land.
mixed farming.

Word for Bone-dust.
I sowed two bushels of White Mediterranean broadcast on the 20 th of November. I sowed one
bushel and three pecks to the acre. I gathered 40
bushels from the scant two bushels from the scant two arres. There were three grains to the mesh and as high as 90 grains
in the head. I nsed a small quantity of bone-
dust and the increase of the yield of wheat wis dust and the increase of the yield of wheat was
from 25 to 30 per cent. This fertilizer will increase the crop one-fourth, and under favorable circumstances will add 50 per cent. to the crop. All my grain was good. - LL. L. Dorsey.

Most kinds of insects are casily wholly des late fall plowing: especially the common whit grab and the cut worm.

Clover and Chinch Bugs. Horatio Sparks, of St. Cloud, Wisconsin, in the
World says:-From my experience with chinch bugs the last two seasons I am well satisfied that all grain fields if liberally sown to clover of
seed time-say from fifteen to twenty pounds of
to seed time-d
clover seed per acre, salt at the rate of half a bar-
rel, and plaster from 100 to 100 pounds per acrerel, and plaster from 100 to 150 pounds per acre-
no fear of chinch bugs need ever be entertained.
The and The salt and plaster give the clover a heavy and
luxuriant growth, so that it completely shades the luxuriant growth, so that it completely shades the
ground, to the discomfiture of the chinch bug. It ground, to the discomite and insect, and cannot flourish except in the
is a frail
gunshine and with the ground clean about the sunshine and with the ground cerean only make grain roots. The salt and plaster not only make
twice the bulk of clover that would naturally grow without it, but add from 20 to 30 par cent. to the grain crop. The salt hardens and stiffens the
straw produces a rank growth, and prevents straw, produces a rank growth, and prevent
blight, rust and mildeew, and destroys all grubs and cut-worms that come in contact with it. 1876, I seeded three acres on one side of a tan-ac
lot that was sown to Canada spring wheat wit lot that was sown to Canada spring wheat with
one bushel of clover well mixed. The resant was,
it cont one bushel of clover well mixed. .ond. After the
it completely occupied the groond.
wheat and grass were nicely up I sowed one-half wheat and grass were nicely up 1 sowed one-haif
of the three acres with salt and plaster, mixed at of the three acres with salt and plaster, mied of
the rate of two bushels of salt to 100 pounds of
plaster. On the other land I sowed 200 pounds of plaster. On the other land I sowed 200 pounds of
plaster and no satit. The result was the half of
. field that was treated with salt and plaster was
much better than the half treated with plaster much better than the half treated with plach of it headed at harvest time and was a perfect mat. cut it with a strong light reacer, calles I think, Triumph, ard I I kept the wheat from these three 8 acres separate from my other wheat was no chinch bugs on the three acres, while the other portion of the field was nearly destro
my other fields that year.
my other fields that year.
In 1871 I sowed seed on all of my fields and In 1871 I sowed seed on all of my fields and
treated all but one four-acre field with salt and plaster. The result was all the land thus treated produced a luxuriant crop of clover, a fine crop of
grain and the finest possible pasture in the fall. Irain onsequence of the last, my animals all got fat, In consequence
and I had a fine coat of manure on my fields to
plow under. On the four-acre field not dressed plow under. On the four-acre field not dressed
with salt and plaster the clover killed out in spots, and the wheat ripened prematurely in spots. On
examination, I found these spots black with bugs. examination, I found these spots black with bugs.
But, on the whole, I got a fair crop of wheat from But, on the whole, I got a fair crop of wheat from
the field. I hold, therefore, that clover is the sheeet-anchor of success to the farmer in renovating
and enriching his land, and salt and plaster com. and enriching his land, and salt and will crown all pose the greal mix the salt and plaster on the bar
hise forts. I
floor in a box, at the rate of two bushels of salt and 100 pounds of plaster. When mixed I put it in my wagonbox, and drive slowly over the field apply the mix.
liberal hand.

The Marquis of Lorne on Canada as a Field for Emigration.
The Marquis of Lorue is gazetted Kuight Grand
Cross of the Order of St. Michael and St. (teorge. He made a farewell addi ess to his late constiturent
in Iuverary, recently, in which, after referrng to wishes of the colonies not from our point of view but from that of their interests, and also from that
of the well-being of the whole Empire. He then of the well-being of the whole Empire, He then
spoke at length on the importance of Canada as an spoke at length on agriculturists and others simi-
emigrant field for
larly employed, and the rapidity with which the larly employed,"and the rapidity with which the
country is being opened and cultivated. Plenty and follow the gallant example of their country men who had done glory to the old land in form
ing another great British nation. They would ing another great British nation. They would
exchange unhealthy city toil for life-giving work The settlers in the agricultural regions of Western
Canada are likely to live longer and be happier Canada are likely to live longer and be happie
than was the lot of a great majority of mankind.
In conclusion, he had now to bid them farewell In he wished to let them feel that he knew well how deep was the debt of gratitude he owwedhe high
If he proved in any manner able to fill the himed
place allotted him-if any success attended him place allotted him-in anduous responsibilities con nected with the position of one who was thic
representative of constitutional sovereignty, and
as such bound to cherish the living ties which aepresentaund to cherish the living ties which
as buch bound
unite the young with the old imperial land-if he
could in any measure satisfy the wishes of the
peowly-opened West or in the more fertile portions people-it was because he had some experience o mons. He had alway rejoiced that he had been their brothers and his served in other and more troubled days.

Furrow-draining.
As soon as possible after the wheat is sown
wherever the land needs draining make a series of clean deep, open furrows wherever tile-drain
ought to be placed, being careful to provide a good outlet for the water to pass out of the field. On hilly lands liable to wash make furrows beginning
in the hollows and extending them around the in the hollows and extending them arough fall
points of the ridges, giving them just enough
to convey the water around to the highest points on the ridges. In this way the water will b
on the scattered, asint. Such furrow-drains will be bene
at one poial in the spring by distributing the water that ficial in the spring by distributing the water that
falls uniformly on the high and dry points. O falls uniformy on the high and dry port is about
very steep side-hills twenty paces apar
the very steep side-hills twenty-pill p
the right distance. A side.hil
convenient to use in making them.

## Phosphates.

At a meeting of the Western New York Farm pounds of phosphate to the acre on a field pounds ond phospured 47 7-10 bushels per acre, against 281.7 bushels where the phosphate was no
used. In 1875, on two-rowed barley, he raised $42 \frac{3}{8}$ bushels, against 25 5-6 on land not so manured He believes in special fertilizers, and proposes th coming year to use 500 po pounds with wood ashes and apply in the hill. Another member said :"'We ought to know what we buy the specia fertilizer for-if for potatoes, buy a fertilizer ric in potash; if for wh
acid. $-N$. $Y$. World.

Farming as

## Source of Nationa

 Wealth.The increase of agricultural wealth does no everywhere always take place in a uniform
ratio. It follows laws of its own, which are eccentric as they proced by shock
and starts. The rule is that the first gen eration of farmers, acting under the pressure
necessity, put forth their full powers. Thei necessity, put forth their full powers. Their
labors are stimulated and sweetened by the consciousness that they are making headway in the battle against rude nature, and the spectre
poverty vanishes from their homes amid geuera satisfaction. The next generation holds prett Venly in the same course, but the conditions ar been won tends to slacken effect. The war agains the forest is at an end, and the necessity or in
proved methods of culture is not always felt in tine, nor does the knowledge necessary to it
tinplication always exist. The enthusiasm that appication and
sustaned the first generation gives place th occa
sional sigus of eminui in the secund. A desire to sional signs of emmui in the second. A desire
escape from the dull, unexciting lie of the farn
竍 changed social position gives rise to new want 6 which horses, music, and better clothing as
called upon to minister. The third generation walled upon to minister. The tirr generation with the secoud. is almost as much disposed to to percentage of those who crave for soue other occupation than that which the farin aforas ans
nereased. The tendency to escape from th primitive employments will always exist, and the alle. Trade, law, medicine, viewed from an unertain distance, all oftifer counter-attractions
there was only repulsion before. The third gen
ghe cration sometimes dissipates the capital hazar us spheres. At first, floating ted a mortgage
tronblesome; then they are fuinded in a now the fate of the farm depends on the sta
which the particular family is made; the mortga may be cleared in time, or its amount may be in
creased, till at last the farn changes owners. In the latter case, a new start in the bush revives th old energy, and the cycle is again completed.
It is now not uncemmon for farmers to se their farms in old districts, while they are yet well
off and invest the proeeeds in farning in ou
lation is said to have doubled within a year. A man with a number of sons, who can sell his farm
for five thousand dollars, can in these new settle for ents thousand dollars, can in these new settle
ments obtin ample land as a provision for them
all
all. In different sections of the older settlements there is the greatest difference in the condition of
farmers. The farmers in a rich Western country farmers. The farmers in a rich Western country often have large sums put out at interest, wh to
those in some Eastern counties are beginning to stagger under a weight of mortgage debts. But
the two sections are in different stages of the cycle, which may work out varying details, as cir cycle, which may work out varying detais, as che the thact that the
cumstances give the impulse. The fact accumulation of agricultural wealth is subject
checks does not prevent its general course being checks does not prevent its general course being onward, or prove that amnual increase of national
there is not a large and
wealth. The tendency to capitalize is alway greatest in the first generation of farmers; stand-still in the third. But the three generations will be found to have among them, as a rule Farmers a a mente larger part their earnings than most other classes. A A farmer and a professional man make equal incomes; bu while the professional man spends his whole in ome and often necessarily and unavoidably,
armer adds largely to his means of reproduction. The man who spends relatively the larger part of his income in the cost of living does most for
rade in the meantime; the man who spends the maller part is conquering the leisure which affords opportunities of higher education to his ofspring, hich labor can be moved and further material progress made. It is just when the farmer spends with the freest hand that he does mist for trade, eggs retribution must follow.
As a nation, Canadians are becoming richer very year, in spice the surface of the water undistarbed beneath. It is well to look at the cheerful side of things sometimes, for moodiness nay bring despair, and exclusive at onheded, will ertainly create a wrong and injurious impression. In the large sense, it is not true hav canaais in which wealth, widely distributed, is constantly
nereasing.-[Monetary Times

Who's to Blame?
On Friday last I chanced to be in the Corn Ex--or at least I suppose he was one-ask a seedmerchant the price of trifohum. On being told 4. How is it you are so dear; one of your trade or ered me as good a sample as yours at 33 s ." Now, Mr. Editor, how is this great difference to be acseed, or wa the 42s. au vercharge? I grew
 paid carriage, an he lad to sell it ayain to the
man who retailed it to the farmer, so that with the carriaye from me to the wholesale man, from him
oo the retailer, and from the retailer to the farmer, nd the two to get a pr. fit, the 42s. was not a fracseeds they must txpect to be cheated, for very few tarmers are jugges of seeds. . They find the
eeds they get from their dealer to answer generally well-1 say generally, as sometimes the best hould advise them to stick to him, and be willing to pay a good price for a good article, and not
tempt a man to be dishonest Dy offering him a low price. I always bu my seeds cleaned from my
seed-merchant.
Before I adopted this plan I had no end of docks and thistles in my grass fields, country seed dealers $\mathbf{v}$ ho have the necessary ap-
paratus for cleaning all kinds of seeds, and those who invest their money and take the trouble-and a great trouble it must be-to clean their seed repaid, even in the weeding, besides which a less fuantity of seed will sutfice. Who, then, is to who tempts him? Will any of your readers kindly ay, through your valuable paper, the price they
and shave paid this season for trifolium "-A
sarmer in A gricultural Ga:ette, Eng.

 class iv－horses
For agricultural purposes exclusive of pure
allion 4 rears old
Best Stallion， 4 years old and upwarls，T．J．
Bell，Londesboro．
and．．．．．．．．．．．．．．．．．．． 2d，T．© \＆B．Snider，Waterloo．．．
3d，R．Ballantyne，Avanton．
 2d，Ed．Sr ith ithon，We，ton．．
3d，Williat：Pherrill，Scarboro． Stallion 2 yeurs old，James Fitchen，whitiby， 3d，James «iline，Brookiin． Yearling colt，T．M．Bell，Atha ${ }_{3}^{2 d,}$ George Wayg，Goodwood Fill，3 years ond， 1 ．Litinle，Halve
2d，W．Cri word，Malveral ${ }^{3 d}$ ，T．\＆ J ．Litulle，Sandhill
 3d，Willian Smith，Columbus
 Brod，J．Clark，Alloa $1 . . .$. ．．．．．．．．．．． Brood Curare，wert orono．by
2 C ，NTay Tarlor Newoasilie．

${ }_{2}{ }^{2 d}$ ，Fleming Brothers，Eden Mille 3d，J．Gariulouse，Highfield． Matched farm team，geldings or mares，in

 －
Heary－draft horses imported or bred from pure imported havay－drats sire and dam，including olyd osdales and Suffolk Best heary．draft stallion， 4 years old and up－－

 Yearling colt，W．M．Miller，Claremont
2d，Thomas Blanchard，Appleby． Stallion，any age，T．J．Bell， Filly 3 years old，J．Garthouse，Hightield．： Filly 2 yeirs
2d，H．$\&$ R．Beith，Bo Beany Yearling filly，J．Davidson and Son，Baisaa，
Brood mare，with foal by her side $J$ ，lavidso ${ }_{2 d} d_{\text {，J：ssaac，Bowmanville．．．．．．．．．Davidson }}$ 3d，James Weir，Scarboro
Foal of or
$2 d, \mathrm{~J}$. Isaa
${ }^{20}$ 3d，Canada－West Farm－stock Association．． Span maz
2nd，

The Most Economical Way to Clear Woodland．
SIR，－In reply to an Algoma inquirer，we would
say that dynamite the article he referred tol has Bay sucensesfully used in clearing stumps and up－ rooting trees，root and stem；but there is dangee
in its use unless the person using it has some ex．
 expeditious in doing the work than gunpowder
but the expease is on mot much less．
bunurirer will see annexed an article from the N．Y．Tribun giving a new way to clear
worthy of more extended trial
＂A Yankee method of clearing forest land that proved effective and economical may be new to
some of your readers．Ex．Mayor Charles Williams some of your readers．
of this city had a tract of pine（white and piteh） of some twenty years growth that he desired to prepare for tillage．Armed with implements，
which were hoes on one side and axes on the other， the woodmen cut the roots several feet from the trunk and below plough range，a rope was attachee at a a proper elevation，to which a horse was
hitched，and with celerity and ease the tree was
 additioual fuel，leaving the surface as clear of fine
structions to cultivation an an old field．Two fine
crops，one of rye，followed by another of Hunga－
 very prodnctive but easily exhanstei，and as
easily kept in high condition by juicious manur－

ing | $\substack{\text { easily } \\ \text { ing．}}$ |
| :--- |

 on＂Draining on the Farm，＇，read at the late weet ing of the National Agricultural Congress，said that
no permanent timprovement can be made without
til did tile drainage，which is mnch better than surface
draiuave．Among letters frem draiuage．Among leters from farmers giving
their texperience in tile draingge，most of them had put their drains three feet deep，while the Pro－ Iessor tavors at least four feet，and recommend
that no farmer should shrink from dranag be． cause of its expense，for the result and advan．
tagss are sure to be great．He advised round tile tagss are sure to be great．He advised round tile
and the folowing of a systematic plan of drainage．
and and the following of a systenatic plan of drainage．
Tile drainage has been in use in Illinois for sixteen years．

## The Cheapest and Best Fertilizer．

 I sow clover seed about the first of April，andhave never had a failure either from frost on
 the sod is is urned overe．The stocks are of but little value as manure，and in a light sandy soil
they work oositive injury．The principal fertiliz＿ ing properties of the plant $r$ rside in the root． goot cloveres sod will furrish enoung plant．food for
two crops of wheat in sucession on moist soil． wo crops of wheat in succession on moist soil
don＇t think
a
a
farmer can
can aftord to to purchase fertilizers unless his soili is too poor to raise clover．
I keep my land in good condition with clover 1 keep $m y$ land in good
alone．$-N . Y$ ．World．

## The Western States．

 The opportunity for obtaining farms of fertileland in the Western States has induced some even from＂this Canada of ours＂to try their for－
tune in that country of great promise．The pi－
ture however，has its dark side，of which we are privileged to get a view occasionally．It is well that our readers should know what settlers there
have to contend with，and they may find they have to contend with，and they may find they
have some cause of being satisfied that their lots have fallen in pleasant places in Canada．We give some extracts from the columns of the New York
Sun．In an article on stock－raising at the West
the Iun referring to the scarcity of water in most the Sun，referring to the scarcity of water＇in most
of the localities that are still open for settlement， of the localities that are still open for settlement
states that the pioneers in stock－raising at the tates that the pioneers in stock－rasisg at in in
West made their claims along the streams，often in long，narrow strips，thereby cutting off those who
settled further back，and depriving them of acess
st ern territories，small and large streams are con－ troled by moosopolists，who will permitt no thfringe ment on their rights，and ask high prices for wa
privileges．Thousands of cattle have no water ex cept what can be got from stagnant pools，which grow putrid under the summer heat and become
quite unfit for animal consumption．The Sun re quite unfit tor animal consumption．The Sun re
marks that＂anyone who has seen cattle sucking up the filthy stuff during the months of A Agust and
September will percive at once the cause of som September will perceive at once the cause of som
of those fearful diseases that break out among stock compelled to partake of such liquids．＂Parties thinking of breaking up in order to go West ar ficulty，and to remember that unless they have means enough to buy a costly water front they wil ave no show in a legal contest with capital；the hws of trespass are littlc better than a farce；and the man who has the lar
by might if not ky right．
If we remember right，it was only a little over
year ago that there was not an owner of a flock sheep from Trinidad to Cheyenne who did no lose tarvation and exposure to cold during one of those old the Werms which are of such frequent occurrence were also informed that thousands of cattle perish d from the same causes and at the same time．If


In a prospectus just received of a proposed
colony which is to locate in Colorado we read

States．The whters are mild，subject to no heavy snows，etc．These are the stereotyped recommend． every new settlement from sent out from almost every new settlement from the northermost parts
of Minnesota to Mexico，and still there is not spot within that rangeoo，country where cattle and
animals of all kinds do not at some seasons of the animals of all kinds do not at some seasons of the
year require feeding and shelter．Any man whio year require feeding and shelter．Any man whio
fails to provide these is a brate，and totally unfit to have the care of stock of any kind．That sheep， horses and cattle do exist for years in many locali－
ties on the plains without shelter and food beyond what they can find for themselves，is no doubt true， but it is no credit to their owners，and the suffer－ ngs of such animals are frequently terrible．The
man who starts out in the business of cattle－raising anywhere on the Western plains，north or south， with the idea that his stock require no shelter
from cold storms in winter，and no food but that which they gather for themselves，will sooner or later see his herds disapper either through starva－

## Wheat Bran as a Fertilizer．

Subscriber＂writing from Marietta，Ga，to he Rural New Yorker，asks for information in regard to wheat bran as a fertilizer for corn o $\$ 15$ per ton；cash price of commercial fertilizera $\$ 40$ to $\$ 50$ ．The following is the reply，which will be of special interest to the readers of the ertilizer
Wheat bran has been used as a fertilizer in the thas been used by market gardeners in growit sweet corn and melons also very successfully． There is no doubt that it would answer equall
well for corn or cotton．Rye bran is richer in fertilizing matter than wheat bran，and the follow－ ing table gives the comparative values of both
wheat and rye bran，barnyard manure，Peruvian guano and ordinary raw bone superphosphate，
oth intrinsically as fertilizers，and also commerci ally in money．
In $2,000 \mathrm{lbs}$ ．there are contained in
朝期童
Wheat bran．．
Rye bran
Barnyard man
Barnyard manuire．
Pervuina guano．
Raw bone Superybib

 ound for nitrogen，fc．for potash，and 100．for the bran would be more valuable than in any of the others，because they are in an organic form
readily deconposed，and more easily dissolved and assimitateol by plants．
especially rye bran）is cheaper as a fertiliz rat more per ton than Peruvian kuano at $\$ 70$ ，or superphos－ It might be proper to state that bran contains， in addition to those matters given above，much il and fat，which
feeding auimals．Nearly the whole of the fertiliz－ ing propertǐs would remain in the droppings，
liquid aud solid，of the animals fed；and，moreover， they would be in a more available condition in the great econony to feed the bran，and save and use p，ssessessen a mux mh higher value as a fertilizer than made from it may manures，and the manure
manably be considered as a portion of it has been utilized as a nutriment for feeling anmals．To feed bran，then，and make manure from it，is the most useful and
nethod of utilizing it as a fertilizer．
Notwithstanding what the millers in the State
of Michigan say against the Clawson or Seneca wheat，the farniers of that State have sown mora of it than ever heretofore．Mr．Henry Bidwell， If Plymouth，in the same State，received the first
fremiun on the Clawson as the best bushel of tix feet inter wheight．The The straw was from four to
wisa $46 \frac{1}{2}$ bushels to
hie arre．The weight per bushel the arre．The weight per bushel was 62 pounds
and 10 ounces．

## Belvidere Dairy Farm.

$/ /$ C. J. M., of Ogdensburg, N. Y., gives the following sket.
Gentleman
A visit to Mrs. E. M. Jones' Belvidere Stock be productive of unalloyed pleasure to all lovers of fine animals. The farm is half a mile east of the
old town of Brockville, Ont., on the st. Lawrence old town of Brock ville, ont., on the st. Lawrence
river. From the capacious veranda of the manorhouse, on the north side of the river road, a magnificent view, both up and down the river, stretches
out, and in the immediate front, at a seeming disout, and in the immediate front, at a seeming dis-
tance of but half a mile, is the ancient village of Morristown, N. Y., lately awakened from a Van Winkleian sleep by the whistle of the Utica and
Black River Railway; whlle in the immediate foreground is the noble old river and the lowest two of the far-famed Thousand Islands.
Mrs. Jones has accumulated an uncommonly fine head. Among the cows is Silverside, which took the first prize last year at the Ohio State Fair, for the best Jersey, and also sweepstakes for any age
or breed; and it is no disparagement to the judgment of those who placed her in such high rank to say, that neither in beauty nor in quantity or quality of milk is she the superior of others of the herd side, stand two Mulberrys, mother and daughter, the former showing a fine udder and giving
over 21 quarts of milk daily. She will produce over 21 quarts of milk daily. She will produce
fully 350 pounds of butter a year. Mulberry 2nd has a record at three years old of 14 pounds a week. Mulberry 5th, now three years old, bids
fair to equal any of her predecessors. Another fair to equal any of her predecessors. Another
beautiful cow is Elsie's Favorite, of solid color, only three years old. Antelope is a three-year-
old, of extraordinary quality and vigor, deep bodied, robust and fine in bone. He is long, deep
in the flank, broad in the loin and between the hips, a trifle heavy in the horns, but beautiful in the head and neck, and soft and mellow in the skin. Playing near are a couple of promising bull
calves of the Mulberry family. Others of this calves of the Mulberry family. Others
herd might be mentioned, if space allowed.
Farmers who might otherwise feel inclined to
keep fine-blooded cattle, are often discouraged from doing so after reading descriptions of the ex-
pensive establishments of men of wealth, with al most palatial barns and appurtenances for their favorites. Belvidere Farm has nothing beyond the
reach or ambition of any farmer who may desire to keep his cattle comfortable. Everything is clean
and neat; ;only this and nothing more. The stables and neat; only this and nothing more. The stables
are clean, the cows are clean, and have an abundance of fresh air and pure water. From the time the milking is over until the butter comes, and, made up in handsome quarter-pound pats, wrapped signed to the expressman, no dirt is allowed to come nigh. There is certainly nothing in all this which is sent to a hotel, which, though recently opened, has already acquired a reputation second to none this side of the Pacific Slope, at a price more than double that paid for the product of adjoining
farms. So much for Jersey cattle and careful but-ter-making in Canada.
There are also some very fine Suffolk pigs on th
farm, which are healthy and very promising.
effect of Salt on Wheat
In an interesting series of experiments recently made on the farm or the Royal Agriculturas societ takably indicated. An acre of wheat dressed with
three hundred pounds of common zalt yielded hirty-nine bushels of grain, with a proportionat manured, produced only twenty-nine bushels per acre, with the straw imperfectly developed. The entire cost of the crop is not stated, then bushels resulting from the salt were produced at a cost of thirty cents each. In another case a piece or
ground intended for wheat was ploughed the proceding fall, and again in May, when it was sowed
with salt, and afterward ploughed beiore seeding. with salt, and afterward ploughed before seeding.
On the lst and 2 nd of September wheat was sown at the rate of two bushels to the acre. The crop when harvested,
of the owner, Mr. John Parke, not less than forty
bushels of grain. to the acre, with a luxuriant bushels of grain to the acre, with a luxurian
growth of straw. From these and many similar cases the inference seems to be that salt is a specitic
for the wheat crop, imparting solidity to the grain and firmness to the straw. But it must not be con-
cluded that equally good results will follow the application of salt.

The Hessian Fly Late sowing and pasturing do not in any way prevent the fy's depredations in this locality, and
l have my doubts if they do in any other. The fact is, this pest can be very much more easily
prevented than arrested and destroyed after it has prevented than arrested and destroyed after it ha
a foothold. It cannot endure early and clean cul a foothold. It cannot endure early and clean cul
ture, nor will it encrach upon any soil that is compact, smooth and free from old stubble, grass,
dead weeds and stalks. My experience is that if the soil is not put in the proper shape at the out
set the fly is sure to appear, be the seeding don set the ty is sure to appear, be the seeding done
in September or November, January or March.
Pasturing is a ruinous practice. In the first place Pasturing is a ruinous practice. In the first place
it absolutely injures the soil, the injury being of that kind which is not easily cured. Then agaiu
it seriously hurts the plant. The leaves are the it seriously hurts the plant. The leaves are the
lungs, and the main stalk that comes up first is lungs, and the main stalk that comes up first is
the support of all the rest that tiller from it. Some grasses thrive by cropping. Wheat cannot because the ultimatum is grain, but in grasses it
is fodder; hence the importance of keeping every is fodder; hence the importance of keeping ever
wheat blade intact. Clean culture is absolutely essential in producing any crop. More especially
is it in preparing the soil for wheat. Farmers will is it in preparing the soil do well to make the experiment in turning the wheat ground at least two months before seeding If clover sod, tarned as soon as the first crop o
clover is cut, and at seeding time cultivate witl clover is cut, and at seeding time cultivate
small ploughs, harrow and roll,- [East Tennessee Letter.

## The Stalk-borer.

This is a popular term now generally employed
for a worm that comes under the notice of farmers and gardners about as often as any other insect
they have to deal with. It seems also to be on the increase. It is a slender, smooth cater itlar closely allied to the corn spindle-worm, but it is a much more general feeder. It is most commonly
found in the larger stalks of the potato, but als found in the larger stalks of the potato, but als
occurs in the tomato, rhubarb, dahlia, aster, lily spirae, castor bean, etc. While very young it is
destructive to wheat, but deserts the latter as it destructive to wheat,
increases in size for such larger stemmed plants as may be convenient. It also occasionally attacks
Indian corn, boring both the stalk Indian corn, boring both the stalk and the ear.
Among its natural food-plants are various noxious Among its natural food-plants are various noxiou strumarium), its extreme partiality to which is a measurable con
valuable plants.
When young this larva is of a livid purple hue,
with a few fine light longitudinal lines, but as it with a few fine, light, longitudinal lines, but as it
matures the color varies to pale green, and the longitudinal stripes became broader. The full-
grown worm is $1 \frac{1}{4}$ inch in length, and nearly in diamoter. About the last of July it either leaves the stalk in which it has burrowed and
enters the ground where, within two or three days, enters the ground where, within two or three days,
it changes to a naked brown chrysalis of the ordinary form, or else it transforms within the stalk. The moth (Gortyna nitela, Guen) issuess during
the month of September, and hibernates in a torpid the month of september, and hibernates in a torpia
state. It expands nearly $1 \frac{1}{t}$ inches, and is of a
mouse-gray color, the front wings being finely sprinkled with yellow scales, and having a pale,
curved line across the outer third. The moth is curved line across the outer third. The moth is
somewhat variable, and I have proved ly careful somewhat variable, and have proved wy carefu
breeding that that which has been described as a distinct speeies (Gortyna nebris, (Guen) is but a
variety of the species in question. The only practicable remedy for the depredations of this insect is to pull up and burn all plants that suddenly
wilt.--[Professor C. V. Riley.

Wheat Planted in Hills.
As a general rule too great a quantity of wheat
is sown to the acre. In England wheat has been planted in hills, or so that it would not take a peck to plant an acre, and the yield from this sow-
ing has reached from 75 to 100 bushels to the acre. We hope some of our farmers who have :
drill would try the experiment of drilling wheat ouble the distance of the drill pipes. placing but with small inplements. One-fourth of an acre will he sufficient to test this matter, or about four rows
across the field. Great truths are learned by such experiments.

Improve the Seed Wheat. We may very well take the trouble to improve he varieties we have, and which we know to be guadity. so The best attainable yield is somewhere about sixty bushels per acre; the best weight per bushel about sixty-six pounds. The best crops
now grown in this country yield about forty ushels, and the best weight is not more than sixty to sixty-two pounds per bushel. Where
such crops as these are grown, it would not be dif-
ficult to fcult to reach a maximum product if we could add
somewhat to the prolificness of the seed and in. somewhat to the prolinicness of the seed and in-
crease its size and weight. But what shall be said as to those ordinary crops which reach but ten
bushels per acre, and which have year by year bushels per acre, and which have year by year
grown less and less by neglecting to improve the rown less and less by neglecting to improve the certain improvement. There can be no doubt
that better preparation of the soil and the use of hat better preparation of the soil and the use of
cood seed would result in a large and immediate good seed woul resuby selecting the best ears
improvement. Then bach crop and sowing these upon soil still better prepared, the yield could be gradually
brought up to a higher, if not the highest point. Sixty bushels per acre, if not more, have been pro-
duced by one farmer, who has been patiently en gaged for years in improving his grain by selecting
he best each year and using the best methods of cultivation.

## Fall Plowing.

This month and next is a very good time in this hatitude for breaking up sod-land for next spring's crops. In breaking meadow 1 put three horses
abreast, and use a rolling coulter, as I find that a plow runs much easier. I have never found it any advantage to break up sandy land in the fall, as it seems to cach so much on washes a good deal,
But the clay soil is acted on by the frost, and a good many worms of various kinds are no doubt I never like to bring to the surface more than half an inch of the under soil at a time. Where nis is turned upon the top of the surface soin lat
in the fall, it will become several shades darker by spring, owing to the action of the frost, rain and I think it a good plan to sow from twenty-five
to thirty bushels of air-slacked lime on the sod be ore turning it under. The orchard is greatly
benefited by it. I find that fall plowing sod late enough in the season, so that the grass will not start in the fall,, puts the land in a good condition or a corn crop. For an oat'crop, I think the yiel
is increased as much as four or five bushels per acre over what it is, when the land is not plowed until spring.
In fall plo
In fall plowing, where there is no underdrains,
or the land is not subsoiled, the lands to be plowed should be narrow, and laid off in such a way that the dead furrows will come in the low places and carry off the surplus water. If need be, let the
plow run three or four times in the same place and then pass along with a sort of scraper, or remove with a hoe, any clods that may have, fallen back
into the bottom of the furrow.-E.,

Conclusions in Regard to Special Manures.
In a recent address on chemistry in its relations
to agriculture, Mr. J. B. Lawes submitted the fol lowing general conclusions arrived at by experihas given a considerable increase in each crop of rotation, although used without any other manure, quence of grain containing large quantities of nitrogen and phosphoric acid, and small quantities of potash, manures containing soluble phosphoric acid and souble nitrogen, as ammonia or nitric
acid, are especially applicable to these crops. 3 .
That when crops containing large quantities of potash, such as roots, potatoes, and hay are sold
oft the farm, manures containing potash such as purchased dungs, appear to be more suitable. 4. That although potash, phosphoric acict, and nitrogen are the chicf manure ingredients in farmyard
dung, in the manure from artificial foods and it dung, in the manure from artificial foods and in
artificial manures, still the differences in form in which these substances are met with greatly affect nure does not properly recognize these distinctions,
and the valuations founded upon these analyses are altogether false and erroneous


Noticg to Correspoxpextr. - 1 . Please write on one sid
of the paper only finee, not necessarily for publication, but as guarantee of goo that course seems desirable. 3. Do not expect anonymous
communications to be noticed. 4. Mark letters "Printers " communications to be noticed. 4. Mark letters "Printers
Manuscript," leave open, and postage will be only lc. per Manuscrip
$\ddagger$ ounce.

Corn and Hungarian Grass. Sir,-I can fully endorse the sentiments ex pressed concerning the above subject in the Sep tember number of the ADVocate. I commence had foirteen milch cows to feed, beside thre horses. I put in three sowings of peas and oats for a soiling crop; also three sowings of Western
corn. The first sowing of corn was on rather corn. The first sowing of corn was on rather col
ground, any a wet day or two after caused part o ground, any a wet day or two after caused part o
the seed to rot. Early in June I sowed it with Hungarian grass, and had asplendid crop of mixed fodder, fully equal to anything in my experience
I have about twenty tons of Hungarian grass hay in good condition, from five acres, and hope with other produce to be able to winter my stock with
little purchases. [We would advise each of you to refer to you September number,
There is money in it.]

Sir,-I beg to thank you for your kindness in sending me the Farmers advocas s, which I have had great pleasure in reading. It is something new to what we are accustomed to get in this coun-
try, being so full of valuable infornation to please the tastes of everyone, which must make your sub scribers reading appetites always longing for you next issue. for the FARMERS' Advo ATE, as she en joyed the several numbers very mich.
We have had a beautiful season, and got splendid weather now. I never knew it keep so plentiimprove. At present prices farming is, a losing game in this country. You Americans will ruin the
English tarmer. If trade would improve prices for our produce would get better; you would also con sume more of your produce at home, and not the
be able to send so much to the Mother Country.
The best classes of shorthorns are still selling
well the Duke of Devonshire had a capital sale. No doubt you have seen an accour tof it. I bought Duke of 0 xford 45 th, under twelve months old, to put on the Duke of Connaught's heifers, for $£ 1,575$
He is a very grand young bull. Our shorthorn He is a very grand young bull. Our shorthorns
are doing well; had a capital run of heifer calve by Duke of Connaught, and grand ones they are
Naur Villa, Berkeley, Gloncestershire, England, Oct. 2, 1878.

Dear Sir,-The pound of Defiance wheat 1 part of the straw went downcausing considerabl loss, and the berry shrunk some, yet I have 5 ponnong straw and large ear, and is likely to be very productive. Spring wheat will not average half crop in this part. Fall wheat-clawson and
Silverchaff-is
Soolese
is blighted and shrunk. Oats good; potatoes fair where the bugs were attended to, otherwise they are small and
few in a hill; hay is a good crop; peas are fair.

Sir,-Geo. A. Tucker, of Westmeath P. O. O.
County of Renfrew, has this season (and without County of Renfrew, has this season (and withou any extra care whatever rase long, thirty inches round, and weighed thirty-three pounds; and
wants to know if they can beat that out West.

SIR, - Are brewers' grains good for cattle and
horses
$\%$ horses? And what are they worth per bushel to
feed? and any information you can give about feed? and any information you can give about
them.
[Brewers' grains are generally fed to milch cows with owher food. They serve to increase the yield
of milk, but such food as cornmeal crushed oats of milk, but such food as cornmeal, crushed oats,
etc., must be fed with the grains if it be an object etc., must be fed with the grains if it be an object
to have the milk rich. We have had no experi-
ence in feeding them to ence in feeding them to horses. Having parted
with so much of their nutritive properties, we with so much of their nutritive properties, we
think they cannot be very valuable food for them.

## Every-day Matters.

 The follaking and saying manure.
A great deal, and very appropriately, is printed our agricultural journals concerning the necesty of making and saving manure ; and yet it is hat quantities of genuine manure, and material for working into good fertilizers, are allowed to be Tasted, for any such purpose.
The manure heap should be the one saving will return good interest, whereas, left elsewhere, hey would prove but nuisance. There are acre of swale grass and weeds growing all over the
country, in localities, which if properly saved for the stable yard or compost heap, would result in rees, left to blow into corners and hedges, furnish xcellent material for the stable and compost heap, est of manure after decaying. Then there ar he many animals which die on the farm annuall nom various causes, instead of beiug converty
not manure and compost, are too frequently rawn away into some retired place and buried,
r left unburied to poison the air with their putreor left unburie
ying
stench.
Again, how frequently is it the case that the
wash and slops from the house, and the deposits of the privy, are left to waste their ammonia on f the privy, are left to waste their ammonia
the air or pass off in the drain or brook, instead o having a pile of dry muck under cover on which uantity deposited in the vault with the excretia d in the airi, and washed away from exposure ind, rain, ecc., could bold add just so much to our individual and national wealth.
There is scarcely any other one thing wheren formers are so negligsurces. Many farmers allow rom one-third to one-half the ralue of their farm nanure to waste, while others willospend as much, or more, anauall for cot do the necessory wor in saving and making an equally good article fro satter allowed to waste right before their eyes.
The intelligent husbandman will see, in lookin round him, many sources, not here referred to rom which he may draw material, which, if takc advantage of, will greatly yroperly saved and applied; urine of the stock taken up by dry muck or earth also makes excellent
manure. In short,all substances, animal, vegetable nanure. In short, at substances, of being converter into fertilizers, should be saved to add to the general
W. H. W. deposit.
Worcester Co., Mass., U. S.

Sir, -I noticed an article in the February num
 ville, Ont. How to fence our farms will soon be a ive question-at least with the farmers of thi
country which is mostly prairie land. If you ould kindly inform me where it would hed greatl procure.
Also let me know if the Red Chaff is a bearipel
wheat, aud where I could purchase some, as the heat, and where I could purchase some, as the mpossibility to get clean seed. I would like to
try the Red Chaff as it might improve by a change try the Red
of climate.
[The Red Chaff and Honey-locust seed could Vave been procured last season from We. Rennie,
Toronto ; J. Bruce \& Co., Hamilton. Agricultural Emporium, London. The Red Chaf of Canat yields well,
ondian flour.]

## Caution.

Sir,--I was once a subscriber to your valuable
paper, and will be again if I will ever be fortunat nough to get settled down on a form Considering you a farmer's friend, I I 1 arir clay before you some trouble, that I lately n agent for the sale of fanning machiues, the company taking my note for $\$ 160$ for four ma lace. The company showed me letters place. The company showed me letters patent
or their mill for both Canada and the United tates. It never once occurred to me that I was eliahle company. My reason for dealing with business was that I intended to take up wild land In Winnipeg next season, and that I might make
a little by selling a few machines to new settlers 1 did not intend to do anything more in these parts than to sell my sample machines and to see
how farmers liked them. I sold them a fine horse, for which they allowed me $\$ 90$ on my note. semed very anxious so getit, pevertheless they
extra if the sweeny was likely to get better. They xtra if the sweeny was likely to get better. The
alleged they wanted the horse to make up anothe team to go round with their machines. They
gave me instructions how I ought to work for hem, not to go through the country trying to find out who wanted machines, but to take up a posiout for business. If I could find out any one that could be induced to take a machine, I was to hold out inducements to hin by giving him a commis
ion of $\$ 10$ each on best bargain I could, and taking his note for $\$ 40$ to me machine. Their mills were to be furnishe gained favor with the company. By the time got through with them I began to suspect that they wer
too late.
1 shortly afterwards went to see one of their mills, which they left in the neighborhood, at
work. The fact was it would not work at all; if it would run a few minutes without getting out
of repair, it wonld work so slow the would be bothered with it. I immediately wrote to the company requesting them to keep their hils and return me my note, and they to have my oo try to impose on any one by selling a worthles Happening a few days afterward to see the property or I would expose them rurn me my press, but to no purpose. Now, sir, what is your opinion of this style of business? Being a
very poor man, I think it is a very great hardship hat my money goes to help these men to carry on the imposture on others, and that there is no
remedy I scarcely know what advice to ask of you. If you are not acquainted with their those that are coning to me, if $I$ get them, so hat you could put it to a thorough test, if by that
means the public could he warned as to their true value. The company have their headquarters in Ontario.
I would terribly hate to have my name mixed 1p with such a dirty muddle in having their style
of business exposed, but some how or another I would like to see a stop put to their villainy [We have omitted names to avoid trouble. We have often cautioned our readers to avoid
the wary tales of patent-right men. There may he some trustful men at the business, but even these will point out ani the a dvantages of thenr
wares. Of course their object is cash. We do not want to try the mill referred to.]

SIR,-Having heard of mome trials being made
horses being worked without shoeing, and of eather shoes on orkers, I am desirous to know what you think of it. Please let us know some
thing on the subject in your valuable paper. Bothwell, Oct. 24, 1878.
Bothwell, Oct. 24,188 .
[There has been a good deal said lately by agri-
cultural writers on this subject. It may be argued cultural writers on this subject. It may be argued
in defense of shoeing horses, that provecting the
hoofs of horses originally was caused by a necesity hoofs of horses originally was caused by a necesity
for some such protection. Shoeing can only be for some such protection. Shoeing cau ony be
dispensed with on the farm, even if it can there. On gravelled roads or macadamized streets the hoof would soon be broken and the animal amed
perhaps for life. There are countries whers perhaps for life. There are countries whers
horses are not shod, but their work is compara-
tively light--no hauling of heavy loads over rough tively li
Horses are shod on the plains, not with leather but with rawhide. A strip of rawhide well filled with hot pine-tar to make it hard and waterpro as been founed sufficient for general the or nore desirable shoe has gether with straps. Such a method of shoeing may in some cases be found very useful, as in n such an instance a temporary use of shoes cut from rawhide or from sole-leather properly pre pared may be very serviceable when then the lan
would be injurious. For farmers, when the is very rough or stony, such shoes we have oubt would be useful during the heat of summer. mare for some months.

Sir,--Every one to whom I have spoken on the
subject complains of the potato crop. In we has rotted in the ground; and in dry ground where the potatoes were stored in apparently good order, they are becoming affected with the dry rot
Apples are a plentiful crop, but in some orchard hand-picked, but nearly all of them were bruised to a greater or less extent on the trees, and conequently I do not expect they will keep well of the branches during the repeated gales of wind we have experienced.
Of fall wheat a very much larger quantity has case last fall. The kinds principally sown, as far as I can learn, are the Treadwell and Clawson. I finished sowing our fall wheat on the 9th alt., and
it is now over ground and looking well. As we have always more snow here than in the more southern section of the province, fall wheat is sel dom winter-kllled, except on a hill-side or on ex winter.
The potato beetles do not appear to have been much affected by the premature decay of the po tato stalks, as they are numerous in the ground
where the potatoes were raised, and we cannot ye where the potatoes with the Paris green. As for the potato-bug pickiug machine, it cannot be used
until the potatoes are well advanced, and conse until the potatoes are well advanced, and coise quently in the early stages of their grown either
Paris green must be used or hand-picking resorted
to. SARAWAK. [As our correspondent's communication came hand late, we had to curtail it considerably.]

Sir,-Having been a reader of the Farmer', Advocate for two years, it is with much pleasur
that $I$ renew my subscription. The few farmer in this localicy I hope that its circulation may be reatly inc
greatly increased, as it
information for the farme
Farming has very much improved in this plac
the last ten yeurs. the fact that our land will repay carerul cultiva tion. As a proof that our so 1 is good, 1 may state that last -pring a friend of mine gave me part of
small lot of wheat sent to him by his son fron Colorado. I gave it an extra chance, and it yielded ninety-five from one. Itried on a small scale what Grey buckwheat would do in drills, and succeede in raising three bushels from hals a pint or seed from a single grain in my barley field.
If we do not go on improving our farms it wi
be our own fault, as we lave an abundance of ma nure at a trifling cost. There is a sea plant calle Kelp that comes in with the fall tides in larg
quantities, and it is found to be nearly equal to quantities, and it is found to be nearly equal th
stable manure. Then in our harbors and l lays
there are large bars of oy ter-- heclls. We have diggers now that will lift from 30 to 40 tons per
diay, with two men and a horse to work them Another valuable manure is the lobster-shells pro-
duced by the factories that dot our shores. Then
we have auy quantity of plister, but, strauge to We have auy quantity of plisster, but, strauge
cay, this excellent fertilizer is only beginning t come into use with us. The tew that have used have found it to improve the wheat and clover
crops very much. Last spring I sowed it on par crops very much. Last spring g sowed it on to the the
of a clover ficld at the rate of one barrel to acre, and it nearly doubled the yield of hay is the cheapest and I think as good a top-dressing as we can get for clover.
F., Wallace, Nova Scotia. [The farmers of Ontario would like to have
chance to get some of your sea-weed and shells.]

## Toultry alard

## Fattening Poultry for Market.

 As the season for fattening poultry for marke will be upon us ere long, a few suggestions in regard to doing so successfully, gleaned from cou siderable
of place.
In marketing poultry in our large cities there are far too many farmers who keep all their shipment antil a few days-say two or three-before the
holidays, and then rush in all at once. This is the time thousands and thousands of packages o f, and the quantity is so large that the prices rule ow. This is very good for the buyers, especiall
for those rather weak in the pocket-book, but thei farmers are compelled to receive a very low price
A couple of weeks before, or a couple of weeks A couple of weeks before, or a couple of weeks
arter the holidays, is generally better, for the the
price wasually rule higher then than during the prices usualy rue
glut which is caused by the inmmense supply sent
in for Christmas and New Years. A good thing is in for Christmas and New Years. A good thing is
for farmers to take a first class. paper and keep posted in regard to prices, and ship when the prices seem to warrant it. There is esfully mond profit ably disposing of the products of the farm, than in producing them, though few
breeders fully realize that fact.
Three weeks is long enough to fatten fowls; and ho mee weeksis ang enough to fatten fowls; an birds should be kept growing briskly from the star cy a liberal allowance of good feed, plenty of exe not pay to fatten, as a rule. While turkeys can not bear confinement and will rapidly lose fles
when confined, as we have fourd out to our cost, when confined, as we have foudd out thatten more
chickens, when properly handled, will fatl quickly, and will, consequently, pay well to tak p and fatten, for the simple fact is tateach day to sustain the functions of the body, and the fewe the number of days required to complete the pro vess, the greater the degree of protit. A darkene to have a deep sand floor. Feed them in the morn and have water troughs convenient for them to ge
their water; allow about halk an hour for feedin's and then darken up the room, excluding all the light, though affording ventilation. At noon give another feed, as before, repeating the can and wil
not give them any perches, for they
make thenselves comfortable on the sandy floor If roosts or roosting benches were supplied, th effiorts made on gettin
fattening materially.
In fattening poultry the cheapest and best foor is undoubtedly corn in its different forms. On calded corn-meal, corn-meal mush, a mush made of corn and oats ground together, bolled beans,
sc. Where milk is plentitul. and on a farm we let the fowls have as much of it as they will take and it will materially hasten the fattening. Wate your birds carefully, and if youncring this system of high feeding, turn them out into the yard and le them run until more are taken up to fatten. acconplished in about two weeks, and should no take much longer, for naturally the fowls canno endure the stuting process very long without sho ng bad effects, being deprived of exercise a
daylight.-[D. $\overline{\text { L. }}$. E., Jr., in Poultry Journal.

Poultry Facts
In ref
The usual quantity of grain for a fowl is one
one and a quarter buanels per year, when $t$ liberty to forage; stomewhat more is reguired fo birds in confinement. To make ducks lay early in the year, give them good care and feed well of ch food. Give them as much room as possible nd plenty of clean water. Ducks are usually healthy, so much so that their diseases are very
little known. No water-fowl is truubled with lice if it has plenty of water to swim and bathe in To destroy hen lice, give quarters a thorough white washing, and as soon as dry go over the surface with coal oil-smudge it into corners and Make the coal oil application every month durin arm weather, and lice will not be troublesome. Look over the flocks of chickens, and mark in reeding. The largest and finest are nasually sent meeding. The largest and hinest are usually sen
market, but the best should be kept for stock purposes. A few years' careful and persisten slection will greatly irpprove the size ani ap
carance of the flock, as well as increase its pearance of
profitableness.
The "Standard of Excellence" gives the marks byich purity of blood may be known.-[Dr. A
I. Dickie, N. Y. Tribune.

Ihe gutiay

## Fcding bees

Bees should be reared so as to give the beel.eepor some surplus honey, instead of requiring to be
ed by him. But feeding should be attended to, hen neccessary, at the proper time; by the use aplied with one comb or more, containing honey, rom a colony having a surplus. Enough food
hould be furnished them in the fall to last them nitil fruit trees iesin to bloom in the spris, if one in the beginning of Octuber, the bees will ap over the honey berore timpurities, oiten sours in cellis, danpens the air in the hive, and fre-
uently causes dysentery among the bees. If the edy colony is in a first-class hive, any partlyhe large openings from every comb in the hive, and the direct communication, i. duces them to reezing weassespon of its. Bues in common hives or in
wern hives having a honey-board or air space between he frame and the box would soouer starve than stocks are not thoroughly fed in the fall, or if an nfavorable summer is followed a severe winter nd late spring, feeding may become necessary in
he spring. Langstroth says:-"In the spring the prudent beekeeper will no more neglect to feed his destitute colonies than to provide for his own
nhle," The fee iing of bees should be done inside he hive or above their combs if there are passages from below; they should never be fed outside the
ive, for that will always teach them the habit of obbing. It honey stored in frames or boxes is renethod; but if all the honey in frames has been mprudently soll or used, the best food that can he needy stocks are in the movable-comb hive, einove two or three empty combs from earch, lay
 about two-th reds full, let it cool for a short time, then turn it over and thil the upper half of the other
ide, replace the combs in the nive and feed in the diamber a few days until the cells are capped over. The importance of feeding is only fully of sugar syrup costing only about six cents, as uuch comb will be built as from a pound of honey, costing thirty cents. one pint of boiling water ; boil the whole for a few minutes anc skim. In in thees must be fed in winter,
owing to neglect in the far the honey directy into the combs, if the stocks are in the movable
comb hives; if in the common hive, remove it to a room, invert it, cut cot cnongh comb to admit a
small plate filled with honey, place it near the
 and sugar may be suspended in the hive from cluster of the bees.--Beekecpers' 'Guide


The damily cirate.
"Home, Sweet Home."
"What is to Become of Sam?"
a short story.

 whatever he said was not worth noticing, and that almosg
everything he did was to be made fun of more or less. He werrything he did was
was in inat, the family yut, though the shafts were, as
so tipped with good-nature as not to hurt his feelings.
Of course there were some patent reasons for all this. To
begin with, there was something manifestly peceliar or back-




 erer did h
yince alm
joke.



 soul, but that was only her discreet way of putting it.
Now han had a aister, Mary, of whom he was especially
Sond. Perhaps it was because she was the sister nearest to to
 Sut in was more than he got from any of the rest. He would
So anything for Mary and when a certain Mrr. St. Leger in the





 furn thim. It was a,
fhe general practice.








 him sit do
wan santh
old Saynts.
 ather and Mary, "What is the meaning of this, sir!" bait
his father sternyly; what could have possessed you to make yourself so ridiculuas! "
"He has got a wife already," replied Sand dogredly "Who has?" was the general exclamation.
"St. Leger."
"Tom Tyler!" Tom Tyler was the village letter-carrier. There was a shout of laughter at this piece of informati
"When did Tom Tyler tell you this?",
"W "When did Ton Tylyer tell you thiss " Mrss. St. Leger."


 aysin, but San was v
thelauth, but maintail
noticed in hinn befora.


 Fora time Sim was almat reveren










 when his
the key.
"I alway














 been stunted and blackened from waint of room ane uncon-
genint lolil begins to hrow out vigorous shootst when trans
planted to ground that suits it, and where ot has space to
 Beansthing ${ }^{2}$





 not an ordinary case. We've got arent
inspect these
" ocunnents."
"Where is it"" said Sam buntly

 "I don't believe you've got it to bring," said Sum.

 There was no need to attempt that difficult operation They
were oull There was no need try atte and with an anfection
invucence Mr. Choker and his satelite withdrew.


 astonishment at sich an order: and ane of then ventured
when partially recovered, to uugbeci a mistake on str. Yuick

 Tho supenene was gratat tamo











## HUMOROUS.

"That's a very stupid brute of yours, John," said a Scottish minister to his parishioner, the to door in a small cart drawn by a donkey, "I never see you but the creature is braying." "Ah,
sir," " sir," said the peat-dealer
warm when friends meet."
A lecturer, addressing mechanics' institute A lecturer, addressing a mechanics' institute,
contended that " Art could not improve Nature, when one of the audience set the whole assembly in a roar by exclaiming, "How would you look
without you without your wig?"
Frankie (to Annie who is eating a sponge-cake),
"Annie, let me be your baby, and you feed me." Anmie, let me be your baby, and you feed me.
Annie, "Oh, no, Frankie, you can not be my baby; Any laby must be in long clothes-one wot can't eat no sponge cake.
Secerrity in iniumber,-Defenseless citizen
(afraid of burglars, to his housekeeper, on retiring (afraid of burglars, to his housekeeper, on retiring
for the night) :- "There, Mrs. Binks, if they at-
ter tempt to come in here, you see, the bell will ring,
the dish cover will be thrown down, and the coal. the dish. cover will be thrown down, and the coal
scuttle will be upset ; so I've no doubt we shal scuttle will be upset; so ''ve no doubt we shal
hearthem any rate! And the mantrap I've set
just inside the just inside the drawing-room door !
"I find your recommendation very good, Brid get." "Yes, ma'am, and now I'll see yours, ma'am
if you please." if you please
"Suppose a person were to belunkind to you, on
strike you, what would you do?" A pause en strike you, what would you do A pause en
sued, when one little girl, sharper than the rest,
made the following laconic reply :- 'It 'imi suade the following laconic reply :- "'It 'in
magain." " P'a," said a little four year-olld, "there's a poor man out there that would , give anything to
see you." "Who is it, my son?" "It is a blind man." "I want to find out who is master of this
house," said the man with a book under his arm house," said the man with a book under his arm
to the vinegary-looking woman with a pointed nose and a very small top-knot who opened th
door for him. "Well, stranger," she said with door for him. ""Well, stranger," she said with
arms akimbo, "you just walk around into the arms akimbo, "you just walk around into the
back- yard, aud ask alitle spindle-shanked deacon
yon"l yon'll find, there fixin' up the grape arbor, and he'll tell you if I don't boss this ranch he don't know
who does. Now what do you want with me?" A raggel, greasy, unkept tramp went shuftling the jurist was in. He was. Well, the pedestrian wanted a lift. He was dead broke, without a
nickel, and was troubled with an aching void in his stomach. The legal light expressed some surprise
sicher as to why he had come to him for help. "Why,
you see, Colonel," said the pedestrian, "I'm kind
 your divorced wife." The request was based upon
such unique grounds that the jurist bestowed upon such unique grounds that the jurist bestowed upon
his charity-client a solid silver half-dollar.- Boston his charit.
Courier.

At Lalmellington Station, Ayrshire, lately an elderly Irishow inan who had arrived a few seconds after the train had started set of whun after it. She aluse the unaccommolating engine, adding, wit a nate brogue, "Faugh, the great black ugly
lump! Whe she gets as ould as me, bedad she won't run so quick!
grinuic edtay's department.
My Dear Nibces,-The perfect summer days have flown, and those of November are upon us. I will give you a brief account of the autumn styles. As Nature varies her hand-writing, and
gives four editions, so does fashion assume new forms, shades and colors. Summer brings every thing light, airy and beautiful. Antumn puts on a richer, heavier garb, warm colors and rich trimmings.
mings.
For several years, black and the most sombre For several years, black and the most sombre
shades have been worn exclusively. old and joung, mother and child, have all worn the darkest shades.। This season the greatest change has taken place in colors. All the dead tints of past seasons have entirely vanished. Brown is no longer the almost seal black; but a real leaf, or snuff, or yellow-brow... Blaes are now the old Green is in leaf, myrtle, apple and moss shades. Red-well, every shade worn for years is popular now. Thiers red, which is a rich, deep garnet, will supersede the favorite of long-standing cardinal.

This tint will be used for out-door costumes; also for bonnets, ribbons, in flowers, feathers and for ties.

Under the head of fabrics we name the old-time stand-by, cashmere; some is yery light in quality. Another brand is heavy enough for wraps. Camel's hair comes smoother and softer than ever before. Then there are stripes, and checked and basketor red. Scotch plaids in wools are largely imported; they will be used for costumes, and also enter largely into trimmings and parts of costumes. Combinations will still be used, which news will gladden some hearts. Indeed, some of the new costumes show three fabrics and colors.
Many are wondering what will be the prevailing style-basques and over-skirts, polonaises and
skirts, or the Princesse. In this matter every skirts, or the Princesse. In this matter every
taste can be suited, as all of them will be worn. taste can be suited, as all of them will be worn. The pleated blouse waist, so popular through the
and summer, will still hold its p
ing style to slender figures.
This model is used for cheap materials, and also for elegant sllks. Simplicity is sought after in the dressing their own dresses at home; they are no longer a work of art. Cloaks will be of medium length. Twelve to fourteen inches from the bottom of the skirt in front will be the longest, and many much shorter, to show the handsomely-trimmed skirts beneath. In trimmings there will be elegant fringes, handsome passamenerie both beaded and without. Heavy cords and tassels and most elaborate buttons will be used.
The woman's friend-the short dress-will be is greater favor than ever; no woman can afford to be without one; they are to her what a gentleman' Then they cha be modeled out of one or two old suits, which have done service as train dresses There is so much license allowed in dressing this season that all tastes and figures can be suited. Minnie May.

## RECEIPTS.

apple triple.
Seald as many apples as when pulped will cover
the dish you design to use to the depth of two or three inches. Before you place them in the dish add to them the rind of half a lemon,
grated fine, and sugar to the taste. Mix half a
pint of milk, half a pint of cream, and the yolk of an egg; scald it over the fire, keering
it stirring, but do not let it boil. Add a little
sugar, and let it stand till cold; then lay it o
the apples, and finish with the cream-whip.
apple fritters.
Pare, core, and parboil some jucy tart apples
in a very little water; chop fine.
Beat seven eggs very light, and add to them slowly three-quarters
of a pound of gifted prepared flour. Beat very of a pound of sifted prepared flour. Beat verter,
light; put in apple enough to thicken the batter
and the grated rind and juice of a lemon. Have and the grated rind and juice of a lemon. Have
the very best lard at a perfectly boiling point, the very best lard at a perfectly boiling point,
and put in it a thick slice of raw apple; this sub-
dues the strong odor of the fat. But a large dues the strong odor of the at.
spoonful of the batter in at a time, and as many
spoonfuls as the pan will hold. They must be spoonfuls as the pan will hold. They must be
made at the moment you wish to use them, and made at the moment you wish to use them, an quicsly as baked. Pewdered sugar,
and nutmeg in it, is nice for them.
Old boot Mant Nash.
ined, make excellent iron-holders. The leather keeps all heat away from the hand.
to clean smoky marble.
Brush a paste of chloride of lime and water over the eatire surface. Grease spots an be removed
from marble by applying a paste of crude potash from marble by applying a F .
and whiving in this manner.
moths in carpets.
A good way to kill them is to take a coars
towel, and wring it out in clean water. Spread it out smoothly on the carpet, then irotion on all sus. a good hotiron, repathose least used. It is not
pected place, and the
necessary to press hard, heat and steam being the neeessary to press hard, heat and steam being the
agents, and they do the work effectually on the agents, and they do
worms and their eggs.
astor hotse corn bread.
One quart of buttermilk, two eggs, one teaspoonful of baking soda, two tablespoonfuls of melted
butter; stir in meal until the mixture is about as thick as buckwheat batter. Bake in square tin
pans, about an inch thick, half an heur in a hot pans,
oven.
croquettes of fowl or meat.
Mince the meat finely, removing the skin and
bones, and fry four small onions in one tablespoon fones, and ry four smain, thens in one tablespoonand dredge the whole with one tablespoonful of
flour, and add pepper, salt, and ground mace nutmeg at pleasure. Beat two eggs with on ablespoonful of powdered sugar, and stirring
lightly through the mass, set it away until cold ightly through the mass, set it away until cold
Then make into oblo g balls the size of a larg pigeon's egg; dip each one in beaten egg and theu
crumbs rolled very fine; fry a rich brown in crumbs rolled very fine; fry a rich brown in enty of boilug lard, butter, or dripping, a bed of mashed potato, with a light feathery border made by quickly grating a boilet
potato directly ou the platter.

> quince jelly.

Rub the quinces with a cloth until perfectly mooth, cut in small pieces, pack tight in kectle,
pour on cold water until level with the frut, boil very solt; make a three-cornered Hanncl bag, pour in fruit and hang up to drain, occasionaly
ressing nn the top and sides to make the juce pressing on treely, taking care not to press hard enough to expel the pulp. There is not so much welgh of the truit in the larger part causes st
uice to flow freely at the point. ${ }^{\text {To a }}$ a pint of juice add a pint of sugar and boil fifteen minutes.
or until it is jelly; pur into tumbles, or brwls or until it is jelly; pour into tumblers, or brwls,
and finish according to general directions. If quinces are scarce, the parings and cores of quinces winth good tart-apples, boiled and straned, as
above, make excellent jelly, and the quinces are above, make excellent jelly, and the quinces ar
maved for preserves.
soot and salt
As the days approach when the stove must be
brought from its Summer retirement, it is well to rought from hat salt will remove soot from carpets. Brush the soot off as much as is possible without rubbing it into the threads of the carpet, thes simple sponge-care
Beat one and a half cups of sugar and two tablespoonfuls of butter to a cream, then add two
oggs well beaten, one cup of milk, and two tea-
spoonfuls of baking-powder sifted with three cup
of flour; flavor with lemon. of flour; flavor with lemon. Maggie Manning. red-pepper catchur.

## Cut up ripe peppers and place them in a preserv

 ving-kettle until it is full, then cover with th bopper pear, a toil until the peppers hav soon as the sance is cool enough I rub throug a wire-sieve. In my opinion it is much better without salt or other condiments, and is of a beaupi scarlet color, and so thick that it must be put fresh for yfour hours.
JTTAGE PUDNI AUGUSTA.
cottage pudding
One cup of white sugar, half 3 cup of butter, Wo eggs, two-thirrs of a cup of milk, one teapoon of soda, two of creas ars, half and three of four. Sauce-one cup of sugar, half a cup of but-
ter, and one tablespoonful of corn-starch. Mix ogether, and add two cups of boiling water; boil wo or three minutes, and add wine, brandy, or ing depends upon the sugar, butter, and eggs bing well beaten, and upon being served the in
Horsk-GIRL

## Things Worth Knowing.

1. That fish may be scaled much easier by dip2. That fish may as well be scalded, if desired, before packing down in salt.
2. That salt fish are quickest and best freshened y soaking in sour milk.
3. That milk which is turned or changed may
be sweetened, and rendered fit for use again, by tirring in a little soda 5. That salt will curdle new milk; hence, in preparing milk-porridge, gravies, etc., the
should not be added until the dish is prepared. 6. That fresh meat, after beginning to sour, will
sweeten if placed out of doors in the cool over nigbt.
4. That clear boiling water will remove tea
tains and mauy fruit stains.
Pour the water stains and mauy fruit stains. Pour the water
through the stain, and thus prevent its spreading over the fabric. 8. That ripe tomatoes will remove ink and
staius from white cloth; also, from the hands. 9. That a teaspoonful of turpentine boiled with 10. That boiled starch is much improved by the additi,n of a little sperm, or a little salt, or both,
or a little gum-arabic dissolved. 11. That beeswax and salt will make your rusty of wax in a rag, and keep it for that purpose When the irons are hot, rub them first with the wax-rag, then
with salt. with salt.
5. That blue ointment and kerosene, mixed in
equal proportions and applied to bedteads, is an equal proportions and applied to bedsteads, is an
unfailng remeny for bugs, as is a coatit of white wails of a log house.
6. That kerosene will soften boots or shoes
which have been hardened by water, and render them as pliable as $n \in w$.
7. That kerosene will make tin tea-kettles as bright as new. Saturate a woolen rag and rub
with it. It will also remove stains from clean varwith it. It will
nished furniture.
8. That cool rain-water and soda will remove
machine grease from aluable
To cure the boys who are in "the colt period" or bag in a convenient place, and whenever anything is left out of place whoever sees it can put
it in the box or bag. The owner, when he wants it in the box or bag. The owner, when he wants
it, must pay a forteit by doing something, having it, must pay a forteit by dong something, having
it understood just what the forfeit is for each one -writing a sentence upon a slate, or learning or reciting a verse of poetry, or passage of Scripture-
anything that will take a little time when the boys are in a hurry for hat or books, or whatever the
article may be are in a hurry
article may be.
Perbaps some readers would like to learn the
secret of walking erect. When walking, try to secret of walking erect. When walking, try to
attain the habit of carrying the palm of your hand attain the habit of carrying the palm of your hand
forward, with the little finger next to your body.

## The Hour of Dinner.

O, hour of all hours, the most blessed upon earth,
Blessed hour of our dinners ! The land of his The face of his first love, the bills that he owes; The twaddle of friends, and the venom of foes;
The sermon he heard when to church he last went The money he borrowed, the moisey he spent,All of those things a man, I believe, may forget And not be the worse for forgetting, and yet Hath unpunished forgotten the hour of his dinner Indigestion, that conscience of every bad stomach,
Shall relentlessly gnaw and pursue him with some
Or some pain, and trouble, remorseless, his best
As the Furies once troubled the sleep of Orestes.
We may live without poetry, music and art,
We may live without conscience and live without We may live But civilized man cannot live without cooks
te may live wrieving?
He may live without hope,-what is hope but deHe may live w pining?
But where is the man that can live without dining?

Take Care of the Pets. willie winter's white mice.
" Willie, Willie, look here! If you leave your mice about like this you'll have them die, you
know. The idea of your leaving the poor little things out in the garden, and in the rain, too!
What could you have been thinking about? What could you have been thinking about? Why, if I hadn't happened to go out just as I did
they would have been left there all night, I do believe ; and if the cold and wet hadn't killed them the cats would!'
The speaker was Willie's eldest sister Rachel,
who now handed him the cage all driping wet, "Oh my!" said Willie; "I forgot all about presently ; besides, it didn't rain when I was out
there."
of you!" retorned his no rain, "، how and as to your thinking of them presently, I'm afraid you would have gone to bed without another thought about
them. You really ought to be more careful ; you
ought indeed!" ought indeed!"
Willie felt that he had no answer to make to his sister's reproof, so he took the cage without a night.
Do you think his sister's rebuke made him more
thoughtful in the future? I am sorry to say it did not.
It was only a few evenings after this conversa tion that, just betore he went to bed, atter playing
with his mive all the eveni.g, fe tow them un
into the outhouse to pla. them on the top sulf as with this mithouse to place them on the top sulf a
insual, out of the nay of the cat. But then he
ust got there, he found that the char $r$ which he use
to stand upon in wrder to reach the shielf was covered with ghips of wood and tools that he had
been doing something with earlier in the even-
ing. He put down the cage on the ground to ing. He put down the cage on the ground to
clear the chair, and having done so, went away
with his usual thoughtlessness, and forgot ail with his usual thoughtlessness, and forgot all
about his mice.
His sister and his mother were botb busy up-
stairs, and it was not till a good while after Willie had gone to bed that Rachel said-
whether Willie put his mice away safely? I sup
, pose I
She took a candle and went down. And what
do you think she saw? The cage upon the Hoor do you think she saw ? The cage upon the floor,
aud the cat with one mouse in her mouth, and the other lying dead beside her. She must have
slipped in as Willie went out, and find ng the cage on the floor, scratched at it and knocked
about until she got the door open and secured her prey.
Of course Willie was dreadfully shocked when
he discovered the fate of his pets. He felt that he he discovered the fate of his pets. He felt that h
had been guilty of a grievous fault, for the little had been guilty of a grievoude his care and pro

## tection, and befell them.

Whethe. Whether he ever had any other pets I do not thoughtful and careful of them than he was of his

## Rules for Ladies Traveling Alone.

 1. Before starting on a journey, fam iliarize yourat the various stopping-places.2. Never travel with just enough money, but always carry enough to provide for any
emergency. This will save much anxiety. 3. Wear but little jewlery, and keep the large part of your money in some inside pocket, out of
sight (the trouble of the lady lately taken from a sight the trouble of the tad lately
train by two ruffians on the pretense that she was
insane jewelry.
3. Always look after yourself, and do not allow a stranger to procure your tic ${ }^{5} 5$
5ight, but, if posssible, making changes in car by
noidable, go with others. Do
Do not become separated from the crowd
 7. If any doubt as to changing cars, checking
bagave, etc., inquire in advance of the conductor The conductors on our trains are always polite and willing to
ing alone.
4. Do not wait till about to make some, change in train before inquiring of the conductor, for, ten to one, he will then be hurried a,
half inform yourself; and finally,
5. Under all circumstances, endeavor to retain
presence of mind. One who can do this will have presence of mind. One who can do this will have
no trouble in traveling, and, instead of it being
und advantage to make trips alone, for there are few people who are not at times obliged to do so, and
experience does away with mach of the possible experience does 2
danger in traveling $\qquad$
Carving a Turkey.
The turkey, though looked upon as the king of
the poultry yard, is not by any means a subject the poultry yard, is not by any means a subject
that calls for a very unusual amount of skill on the
part of the carver. Beyond the fact that care part of the carver. Beyond the fact that care
should be taken to cut neatly a successiun of long slices from the breast, each wh not much for the
of untorn skin, there is really not mand
knife and for knife and fork to do. Yet the dish, roast or boil
ed, is so universally met with during winter fes ed, is so universally met with during winter fes
tivities, that very seldom can the responsibility
souner or later, of carving it be evacled. There
. tivities, that later, of carving it be evalide. Theree
sooner or lo
fore, is as well to say that the cutting of the slices from the breast should begin from asclose to
the wing an possislle, and so proceed upward on
thath sides, to the ridge of the breast boue the wing as possilhe, and so proceed upward on
both sides, to the erige of the breast bone. Some
penplop prefer txactly to reverse this process; tut

 lescribs under the breast is got at precisely a
case of the duck. The severing of wings and legs is only on rare oecasions neces
sary athe table, as the breast of the bird usually yields an ample supply for an averave number
yaests. But in the event of the carver being called on to disjoint a leg or wing, he will only have
to draw upon his acquaintance with the anatomy to draw upon his acquaintance with the anatomy
of the chicken. When, on the following day, the
When the cook should have nade any carving of the dish
therald. unnecessary. - N. Y. Herald.

Household Furniture. Experience tells us that furniture will be more hikely to prove satisfactory if simple and graceful,
ather than elaborate and extravagant in design. There is no economy in buying inferior, ill-made
aticles because they are cheap. They will either get to look shabby or will need repair in a very
pensive. All articles of furniture should, in size
material and shape, be suited to their position and material and shape, be suited to their position and
surroundings and they should harmonize well
with each gthen with each other. Excepting in very large rooms
or in conformity with a fixed idea, large patterns extravagant designs and striking colors, should be
 small patterns are much safer than large masses o
color, and the brightness of the room should de color, and the brightness of the room should de
pend rather upon the table-covers, books, Howers pend other ornaments, than upoon.the color ow the
and orpets and cartains. Large furniture is out of
col carpets and curtains.
place in a small room; slight, spare furniture is no suited to a large room. The designs for carpets and floor-cloths should be adapted for horizontal sur
faces and for being trodden on. In a dining-room the patterns and colors should be rich, deep and warm. In a drawing-room they should be ligh and delicate. When they have a motherly aspect,
the colors in the dning -room should not be too the colors in the dining-room shoud not be too
dark or sombre; in the drang-room they should
not be cold. Bed-rooms should be bright, airy and not be cold. Bed-rooms should be bright, airy and
cheery. In all the rooms the furniture should not be too much crowded, an
avoided as much as possible.

How to Keep a Piano. The piano is constructed almost exclusively of
various kinds of woods and metals, oloth, skin and valt being used in the mechanical portion. For this reason atmospheric changes have a great ifrec
on the quality and durability of the instrument and it is necessary to protect it from all external influences which might affect the materials of
which it is composed. It must be shaded from the hhich it it composed. It must be shaded from the
sun, kept out of a draught, nnd, above all, guarded against sudden ohanges of temperature, This lat.
ter is a most frequent cause of the piano petting ter is a most frequent cause of the piano getting
out of tune, and the instrument should be kept in a temperature not lower than fifty-four degree and not higher than eighty-six degrees Fahrenheit.
When too cold, the wood, cloth and skin swell, and then tocold, the wood, cloth and skin swell these matorials shrink and caune clinking, saqueaking, and other disagreeable sonnds. Moisture is
the greatest enemy of the piano, and it cannot be the greatest enemy of the piano, and it cannot damp will destroy every good. point in the instru-
ment. The tone becomes dull and flat, the wires ment. The tone becomes dull and flat. the wiree
rusty and easily broken, the joints of the mechan. rusty and easily broken, the joints of the mechan-
imm stiff, and the hammers do not strike with precision, and if these symptoms are not attended to
it once, the piano is irretrievably spoilt:
There at once, the piano is irretrievably spoilt. There-
fore do not put your piano in a damp ground-loore fore do not put your piano in a damp ground-fioor
room, or between two windows, or between the
door and the window where there is a through door and the window where there is a through
draught. Never leave the piano open when not in raght. Never lave the piano open when not
usae, and above all when the room is being cleaned. Do not put it near a stove, chimney, or hot-air
ines. Always wipe the keys after playing pipes. Always wipe the keys after playing
Vever pile books, music, or other heavy things on the top. Be careful when using the soft pedal not to thumpertene notes. Do not allow five note or other exercises of a small compass on a piano you
have any re ard for. A leather cover should be
kept on the instrument when not in use and rekept on the instrument when not in use, and re moved every dy for the purpnese of dusting. A
cn- hinon of wadding on a strip of flenn 11 laid on the keve will help to krep them white and preserve
the puli h Never leave the piano open after a Nu pical eveninger dance If yana are ohliged to
muve it in a danp rowm dunt nlace it against the
 first, year, and at least three times a year after
ward. A'ways have it tuned after a soiree if the room has beer: very hot.

Answers to torrespondents Magare M.-To press your autumn leaves take an old book, lay down your leaves upon one page,
be careful that they do not touch each other, then turn a dozen pages or so upon them, fill the next
yage in the same manner, then place in a cool, dry oom with a weight upon them. We like leaf
varnish better than wax. The proper varnish is sold by all druggists.
JRNNIE C.-The book you mention can be ob-
tained at almost any bork-store. In nsing cretonne tained at almost any bork-store. In using cretonne
or chintz for curtains the light side should be in the room. It is customary $t$, line each curtain with colored silesia, buff, blue or rose-color
match the ground of the chintz; and this makes a pretty show on the outside.

## 

My Drar Nephews and Nibces, -This is a bit of advice which my old school-master gave to the the other day as I was watching a plump little tharkey eating a sour apple and making a very wry darkey eating a sour apple and making a very wry
face-a "sardonic" grin. The old master said - -face-a sardonic grin. The old master said:-
Wenever you come across a word you do not thoroughly understand, do not rest until you have found out all about it. There is "sardonic" for instance. As applied to a grin it means one that a man makes if he is forced to laugh when he doesn want to, or tries to smile when he is ready to cry out with pain. Now, in the island called Sardinia there used to grow a plant with a very disagree able taste, and whenever a piece of it was put into anyod unwilling smile-made him "langh on the wrong side of his mouth" as I've heard boys say. Well, in course of time the name of the island was given to the plant, and then with a slight change it was used todescribe the wry face the tastermade So you see, my dears, some words are like puzzles. Maybe you have heard all about this before, and in reading this may give a "sardonic" smile at your old Uncle Tom's version of it. Uscle Tom.

Office Receipts.
We are in receipt of one of Mrs. Frances Hodgin, Burnettes's famous novels salled . 'That Lass $\mathrm{O}^{\prime}$ Lowrie, , published by Scoither \& Sons. It is
neediless to sayy the authoress has taken her place needeoss to say the authoress has taken her place
na one of the best novelists of our time.
Her as one of the best noverist of ail tlasses of peo-
stories an be profitably read by all cor ple. They are told not
only with true art but only with true art but

Answers to En quiries Gertie H. - We do not give prizes for answering puzzles unless
specially
mentioned. Specially mentioned. Ne merely publish the answers the most


## PUZZLES.

## 5.-Complete diamond

The centrals of the diamond are each the same word, of five letters, spelling the name of a Frenchnan who became notorious during the great French Revolution. The remainder of the diamond is
made of words formed from the letters of his name. The diamond encloses a hollow-square, either of whose perpendiculars or horizontals, read backward or forward, will spell a word; and, reading from
the middle letter to either end of either of the centrals, a word will be spelled, which, when read backward, will spell another word, Make the
ond.
96.-easy amputated qeotation

Two lines from Tennyson. Each word is be.

 $-1.00-$ $\xrightarrow{-\mathrm{ORma}} \mathrm{L}$.
7.-easy cross-word puzalie.

My first is in bee, but not in Hy;
My second in moon, but not in sky
My third is in scare, but not in fright;
My fourth is in top, and also in kite;
My fifth is in broad, but not in wide;
My sixth is in ocean, but not in tide;
My whole is all New England's pride.
H. A. S
95.--easy sectare-words

1. 2. A band of singers. 2. A wandering
troop of barbarians. 3. A plant with sweettroop of barbarians. 3. A plant with sweet-
smelling root. 4. A simpleton. 5 . Is yuiet.
II. 1. A spelled number.
1. A lazy person.
2. A dazzling light. 4. A marsh bird. 5. A
river of England. river of England.
III. 1. Profundity. 2. To try.
3. A sacred III. 1. Profundity. 2. To IV. 1. A noise that no animal but man can
nake. 2. The name of a letter of the Greek al. phabet. 3. Part of a shoe. 4. A town of Belgium. 5. Dee
99.--geographical enigma.

1 am composed of 20 letter
My 10, 17,, 7 is a river of Asia.
My 17, $15,4,9,12$ is a city of 0 hi My 17, 15, 4, 9, 12 is a city of Ohio. My $11,4,13,16,18,7,12$ is a peninsula of Europe.
My
$9,3,18,12,2,6,9$ is a river of S. A. $\mathrm{My} 4,2,14,9,12,4,2$ is a city of Canada. $\mathrm{My} 7,3,4,18,6$ is an ocean.
$\mathrm{My} 12,2,14,4,20$ is a sea on the coast of Europe.
My 15, 4, $, 13,16,18,7$ is a town of Ohio.
My 4, 13, 4, 3,15 is a mountain of Europe. My 15, 4, 2, $13,16,18,7$ is a town of Ohio
My 4, $13,4,3,15$ is a mountain of Europe
My $13,8,18,15,15$ is a bay of S . A. $\mathrm{My} 13,8,18,6,15$ is a bay of S. A.
$\mathrm{My} 6,20,18,10,18$ is a country of
$\mathrm{My} 6,13,3,8,2,16,10$ is a county of My $6,1,1,3,8,2,16,10$ is a county
My $1,18,10,17$ is a river of Africa. My whole is a State and its capital. RosA. Frost.

## 100.- ENigma

Upon the fish's back I ride,
Deep in the blue Atlantic wide My form is round, and is as bright As burnished silver to the sight. Beside the bales of merchandise
I'm found of varied form and size In found of varied form and size; Men very often need my aid.
In music, too, a place I claim In music, too, a place I claim Aow, as you strive the word to tel

101--illustrated rebus.
102.-DROP-LETTER PCZZLE

Wh $-\mathrm{r} \cdot \mathrm{r}-\mathrm{n} \cdot \mathrm{w}$ th $\cdot \mathrm{h}-\mathrm{p}-\mathrm{sI} \mathrm{I} \cdot \mathrm{ch} \cdot \mathrm{r}-\mathrm{sh}$ - F. Fill the blanks with
from the Opera of Norma.
103.- geographical enigma

I am composed of 31 letters
My 17, 9, 24, 14 is a river in England. My $6,12,25,10,31,3,19,1,28$ is a cape on the west coast of Europe. $\mathrm{My} 16,18,29,21$ is one of the United States.
$\mathrm{My} 22,20,14,27,3,13$ is a river iy the Georgian Bay. My $5,23,15,3,30,2$ is a county in Ontario. is a mountain peak in Asia.
My
fied.
d.

There is in, on, and round this earth There is in, on, and round this
A lower clothed with light, A lower clothed with light,
A wonder-working, airy thing,
Yet neither fiend nor sprite.

Man feared, then chained, this dreadful Power By force, of stronger law;
Oft dazzled by its raiment bright, Oft dazzled by its raiment
Its self man never saw

Now, tamed and harnessed, it is sent
On errands night and day; On errands night and day;
it tells ten thousand messages, Yet not a word can say.
It travels through the ocean's deepl
It travels through the ocean's
Greeu valleys still and dim;
'Tis fleeter than the fleetest fish-
And yet it cannot swim.
It pierces through the soundless sea peath the sky; It has no wings to fly
And while it cannot walk, nor talk, Nor eat, nor drink, nor sleep,
There's scarce a thing in all the world Has made more people weep
Than any herald on this eart Now, just put on your thinking-cap

> Answers to Dctober Puzzles.
> 87.-DOUBLE WORD-SQUARE.

Across:-1. Gione. 2. Aver. 3. Leer. 4. Ends. Down :-
Gale. 2. Oven.
3. Need.
4. Errs. 1. Gale. Bridle.
 90.-1. Subtle, Bustle. 2. Shah, Hash. 3. Shearer, Hearers.
Sharler, Herper


 has.-Provincial Exhibition in Toronto.
hose



## The Snow-bird.

by dora read goodalf
When the leaves are shed,
And the branches bare,
And the branches bare,
When the snows are deep, And the flowers asleep, And the Autumn dead, And the skies are o'er us bent
Gray and gloomy, since she we Gray and gloomy, since sdrifting
And the sifting snow is dren Through the air
Then, 'mid snow-drifts white,
Though the trees
Though the trees are bare, In the Winter's cold, ${ }^{\text {I }}$,
Quick, and round, and brigh
Light he steps across the snow,
Though the sifting snow be drifting
ach the alr.

Some mein mourn that they have made and
broken so many resolutions. It is sad that you broken so many resolutions. It is sad that you
have broken them, but thank Heaven that you have broken them, but thank Heaven that you

The Art of Reading.
" In one of his speeches the great Macready said some reference to the art by which they endeavored to convey to their hearers not only the words,
but the inners feelings of the heart. but the innersfeelings of the heart. It might
appear to some that he set too high an estimate appear to some that he set too high an estimate
in dignifying that as an art in which no one confessed a deficiency. Every one could read; but he asked, could every one listen to their reading.
For his own part, one of the greatest of intellectual luxuries, was to listen to the powerful reading of the eloquent utterances of their great writers.
Let him put in a word for reading as an accomLet him put in a word for reading as an accom-
plishment which required as much time and practice for its acquirement as the music of their first composers." From this high authority we are
enabled to determine the position which elocution enabled to determime the position wiich elocacion
holds among the other professions and accom-
plishments.
Ranking equal with music in plishments. Ranking equal with masic in
point of time necessary for acquirement, and in point of time necessary for acquirement, and in
artistic merit; and the profession is dignity and importance.
The art of reading may be understood as that
system of rules which teaches us to pronounce written composition with justness, energy, variety
and ease. Agreeably to this definition, reading may be considered as that species of delivery which not only expresses the sense of the author,
so as barely to be understood, but which, at the so as barely to be understood, but which, at the
same time, gives it all the force, beauty and
variety of which it is susceptible. Not a mere mechanical rendering, but in every word there should dwell a living spirit.
In many of our present readers wefind a false
tendency. Educated it may be in the theory, their hearts are not taught to act, nor are their
the
imainations developed to the full requirements imaginations developed to the full requirements of the art. They utter mechanically the words
before them, with a possible pleasing effect upon those who are capable of judging the true merits
of the rendering, but with an ordinary critic it must be considered the simple jangle of a machine. We can pay no greater compliment to such readers
than that their popularity will never extend than that their popularity will never extend
beyond a certain point, which is the limit of their circle of friends.
circle of friends.
In elocution we find a grand and noble study ;
one which develops our higher and better nature one which develops our higher and better nature,
and sheds itsinfluence through body and soul. The young man who studies elocution at the same time studies nature, and cbtains a grand insight
into its many mysteries. To some it might seem long and tedious, but to the poetic nature it is pleasing and profitable, and to all it much more than compensates
in its acquirement. In social life we find both its origin and perfection, inasmuch as conversation may be regarded
as the foundation of our speech. It is the germ as the foundation of our speech. It is the germ whence must issue al the possibility of our nature. We come in contact with our friends in voice and manner. it is here our thoughts and feelings come into service.
We render ourselves agreeable to our friends largely as our voice and manner are pleasing and attractive. Our influence and usefulness in any social relation mu
of these qualities.
Let me add a word to its importance as an accomplishment. We find many who study the art we find who study the art of reading for the same purpose? In the home cirole, in the social group, and even on the platform its power and influence are enduring. We never tire of listening and en-
joying its pleasing effect, and are many times surprised at the intensity of expression to which the voice and heart cha be cultivated. We have
noticed that in the social circle, readings are sought and valued as highly as the
the best musicians.-[Homestead.

Farm Life.
It is a common complaint that the farm and farm life are not appreciated by our people. We long tor of the town. But the farmer has the most sane and natural occupation, asdened than any other. sweeter, in less hig speaking, has a home. How can
He alone, strictly spal thrive without land? He
a man take root and a man take root and thrive without many ties, writes his history upon has; his friendships with
how many resources he
his cattle, his team, his dog, his trees; the satishow many resources he los, his trees; the satis-
his cattle, his team, his dog,
faction in his growing crops, in his improved fields;
his intimacy with Nature, with bird and beast,
and with the quickening elemental forces; his cooperations with the cloud, the sun, the seasons, heat, wind, rain, frost. Nothing will take the various social distempers which the city and arti-
ficial life breed, out of a man like farming, like
direct and loving contact with the soil. It draws direct and loving contact with the soil. It draws
out the poison. It humbles him, teaches him paout the poison.
tience and reve.
to his system.
Cling to the farm, make much of it, put yourit, so that it shall savor of you gour radiate you it, so that it shall savor of you and radiate your
irtue after your day's work is done.-Scribner.

A Healthful Practice.
Loosen the clathing, and standing erect, throw breast forward. In this position draw slowly as eep an inspiration as possible, and retain itby an gradually forth. After a few natural breaths, repeat the long inspiration. Let this be done fo
ten or fifteen minutes every day, and in six weeks en or fifteen minutes every day, and in six week
ime a very perceptible increase in the diameter the chest and its prominence will be evident.


Chrysanthemum Coronarium "Flore Pleno.'
The Chrysanthemum is one of the prettiest late
autumn and early winter flowers grown. In November and December there is nothing that will
make such a cheerful display. They are mostly all of fall growth, and should therefore be well thinned out in the beds in order to have them the spring and sink the pots into the soil up to the rim. Take them into the house in October or November, and you will have a ine display of bloom
for two or three months. There are different classes of Chrysanthemums, white, different tints, and yellow, and different shades of red, and in should be procured and sown in a fine loamy soil, way as will suit your own taste either in pots or in the open ground; the best way is in pots. The
plant being quite hardy, can be grown without any difficulty.
This interesting flower has not received half the
$\qquad$
Frutrs are of different degrees of digestibility. Those of a hard texture, as some kinds of apples,
melons, apricots, several sorts of fleshy plums, and melons, apricots, several sorts of of digestion. But
all immature fruits, are difficult of strawberries, raspberries, currants, gooseberries,
cheeries cheeries, peaches, figs, grapes, melons and apples,
pears, mulberries, fige pears, muberres,
when fully ripe, most easily dissolved in the
tomach. Yet there is nothing that equals good stomach. Yet there is nothing that equals good
ripe apples - they take the place of food, and pro-
duce brain and muscle. All ripe fruit moderately duce brain and muscle. All ripe fruit moderately eaten is wholesome, particclarly as correcting may
grossness of animal food; but an exceess of it may
be productive of numerous diseases, and nettle be productive of numerous diseases, and netle-
rash on children is often thus occasioned. So you
see there is nothing so good but that we. se there is nothing so good but that we may have
too much of it, notwithstanding the saying: "You too much of it, notwithstandirg the saying
cannot have too much of a good thing."

How We Came to Travel I was sitting on the deck of a Savannah steamship, which was lying at a dock in the East River,
New York. I was waiting for young Rectus, and
had already waited some time had already waited some time, which surprised
me, because Rectus was, as a general thing a very me, because
prompt fellow, who seldom kept peopple waiting.
But it was, probably, impossible for him to But it was, probably, impossible for him to
regulate his own movements this time, for his
ather father and
him off.
I had no one there to see me off, but I did not
care for that. I was sixteen years old, and felt quite like a man ; whereas Rectus was only fourteen, and couldn't possibly feel like a man--unless
his looks very much belied his feelings. My father and mother and sister lived in a small
town, some thirty miles from New York, and that Lown, some thirty miles from New York, and that
was a very good reason for their not coming to the city just to see me sail away in a steamehip.
They took a good leave of me, though, before Ileft Reme.
Rectus's father and mother lived in New York. Samuel Colbert was his real name, and the title of Rectus he obtained at school by being so good.
He scarcely ever did anything wrong, which was
rather surprising to the rest of us, because he was rather surprising to the rest of us, because he was
not sickly or anything of the kind we got into the way of calling him Rectus, and as The boys generally liked him, and he got on quite
well in the school, -1n every way except nh his studies. He
pretend to be.
I went right through the academy from the low est to the highest class, and when I left the pro-
fessur, as we called our principal, said that I was ressor, as we caled our principal, said that Iu was
ready to go to college, and urged me very much to
do so. But I was not in any hurry, and my do so. But I was not in any hurry, and my parents agreed with me that atter four years of
school-life, I had better wait a while before beginning a new course.
I thought over things a good deal for myself, and
a few months after I left the academy I made up a few months after 1 left
my mind to travel a little.
I had some money of my own, which I thought
I would rather spend in travel than in any other way, and as it was not a large sum, and as my journey could not be very extensive. Indeed, I journey coumplated going to Florida and perhaps a
only contemplater
few other Southern States, and then, if it could
be done s a be done, a visit to some of the West India islands,
and as it was winter-time, that would be a very good trip.
Soon after the matter was all planned and set-
tled father had to go to New York, and there he tled father had to go to New York, and there he
saw Mr. Colbert, and of course told him of my plans.' That afternoon old Colbert came to my
father's hotel and proposed to him that I shonid take his son with me. He had always heard, he said, that I was a sensible fellow, and fit to be
trusted, and he would be very glad to have his boy travel with me. And he furthermore said that
if I had the care of Samuel-for of course he did not eall his son Rectas-he would pay me a salary. He had eridently read about young English fel-
lows traveling on the continent with their tutora, lows traveling on the continent with and suppose he wanted me to be his son's tutor or something like it.
When iather told me what Mr. Colbert had
proposed, I agreed instantly. I liked Ri ctus and the salary would help immensely. I wrote to New York that very night accepting the
proposition. proposition.
When my friends in the town and those at the
school heard that Rectus and $I$ were going off together they thought it an uncommonly good joke,
and they crowdeh up to our house to see me about
it. "Two such good young men as you and Rectus traveling together ought to have a beneficial influAlden; and Scott remarked "that if there should be a bad storm at sea he would advise us two to the other people would be sure to be the wicked ones." 1 am happy to say that I got a twist on
Scott's ear that made him howl, and then mother came in and invited them all to take supper with
me the Tuesday before I started.-St. Nicholus, jor November.
Little Boy-" Mamma, what relation is auntie's new baby to me ?"" Mamma-"Your first cousin,
lear." Little Boy-"Well, ma, who is my last cousin ?" (Ma collapses.)

\section*{The Fireside.

## The Fireside.

## The Fireside.

With what a live intelligence the flame

 Of idle talk in shallow fancies From doleful hoods the cheerrul fire hat led My thoughts, which now their manlier strength $r$ r And like
And like some trozen thing that feels the su
Through solitudes of winter penetrate, The frolic corrents through my pulserse run; While futtering whispers soft and intima Make talk, love, masic, poetry in one.

## Peacock Fish, Peacocks and Little

| Beaco |
| :--- |

They tell me that there is a kind of fish in the
Indian seas called the peacock fish, becauss of his Indian seas called the peacookk hish, because of his
briliaint colors. I wonder if he is as proud as our land peacock, and whether or not he can spread
his tail on grand occasions after the fashion of the birr that struts into my meadow sometimes? This
bird lives on a fine estate near by, but once in a bird lives on a fine estate near by, but once in a while he comes over to astonish that he came his plong
dor.
One
night dor. . han just spread himeself and put on his grand
anis when ten lithe youngsters
sprang from no irs, when ten little youngsters sprang from no where in particular,
shouts and laughter.
ho!" Ho ! ho!" cried they. " Isn't he proud? Ho
A queer little stumpy-tailed dream-dog was with hhem, and he fairly sneered instead of barking. voice you ever heard, "what if I I am proud?
Whod ever see these tail feathers, I'd look to know, if I wasn't proud? Look out that your re not prond, -you!
p-a-a-u:w!
This was too much for the ten little boys. They gave a ahout, and sprang uon the peacock, and
each one tried to get a feather, but he gave a tremendous scream -
I awoke, and there was the sun, with every ray spread, rising to the tune of Cock-a-doodle-do! Jack-in-the-Pulpit for November.

Dear Uncle Tom, -1 have just arrived in Eng
Thid. When we were fairly out at sea, the first land. When we were fairly out at sea, the first
thing I did was to explore ehe great ship 1 It was sunk twenty feet deep in the water. The mast were of hollow iron, and seventy feet high, It
took nine furnaces and fory tons of coal a day to
to keep the ship going. The crew numbered ${ }^{\text {ºn }}$
hundred and thiry five. It seems very wenderful huatread great heary iron ship sowould not sink; the reason thatith does.
water it displaces.
When we were a few days out a flock of land.
irds rested on our ship. We ted them birds rested on our ship. We fed them with
crumbs, and brought dishes of fresh water on deck crumbs, and butught anter aday or two they disappeared.
for them, but ant A litile further on, a hawk alluhted on the vessel,
and one of the sailors caught it when it was eep
To find out how fast we were going the sailors
threw the "log," which was no log at all but a long thin rope with a small three-cornered canvas
bagat one end. They throw out the bag and it bag at one end. They throw out the bag and it
catches in the water and keeps the end of the rope steady. The rope runs out as the ship goes. One
sailor stands with a time-glass, which holds as much sand as will fall in one minute from one half of it into the other. The glass is turned just when a certain mark on the rope passes over the rail,
and when all the sand is turned the rope is stopped. As the rope e tas semgths marked on it thy its bits o
colored colth the sailors can tell how far the ship has gone in one minute, and can roughly calculate from that its rate of speed by the hour. Formerly
$a$ real log of wood was used insteal of the bag.
 spouting and showing the irer back zozeove of them ter. Another excil: ng thing was meeting $a$ ship so near
that we could salute it, which is done by hoisting then lowering hy hlag once or twice ships have
taags of different linds and each has its own mean-
ing. So by hoisting certain flags th
different ships can exchange news. When nearing the Irish coast a dense fog settled
upon us, so that we could hardly see from one end great fog-whistle was kept blowing to warn other vessels t that might be in our neiggborhood. To
see a light-house or landmark was mpossible, but
 the captail found out where wee were by so hole
ings. Every ship has along piec oflead with a ole
in one end which is filled with tallow. The other in one end which is is filed with tallow. The other
end is fastened to a rope, and the lead is thrown
隹
 Overome of the seabottom is found stack to the
un pollow, and from this and the depth of the water
tol tallow, and from this and the depth of the water
the captain knows where he is. for the kinds of
sand and mud at the bottom of the sea sand the varying depths of water are plainly marked on his charts.
I cannot describe to you what a welcome sight the land was after seeing nothing but water for so
long. But when we had left the great ship behind it gemed almost as if if we were leaving home, glad
ithough $I$ was to get ashore though I was to get loskire. reader,
Your loving ren
London, England.


Some of our readers have not amused themselves with the rebuses, while others have taken great interest in them. The above is inserted a third time for all to examine. There has arisen great dispute as to the correct answer; some contend that the answer is "Toronto Provincial Exhibition, , others ther say that it is "Provincial Exhibition held in Toronto"-some say "enclosed in Toronto." There have been wagers made about it, and lawyers differ in the answer. We have fiven the correct answer among the regular anwers, because we made it and intended it to read thus. Some oppose this answer, and say that the suburbs.

## A Sharp Lawver

One of those shrewd, sharp lawyers, who take
pride in twisting a witness into a labyrinth of dif pride in twisting a witness into a abyrinth of tip-
ficulties, had occasion some time ago to cross-exmine a gentleman of some little prominence. The
wwer managed after much skillful manouvring o so confuse the witness that the only answer he ect." When the lawyer had this answer returned to him a score or more of times his patience gave out.
"Tell me, Mr. J:" he exclaimed, with biting sarcasm, "can you ever remember anything?"
"I can," was the response.
"ears and you carry your memory back for twenty
"hen?"
"Yes
"l es, I think I can," returned the witnes, who "Ah!" some composure.
is hands in exclamed the lawyer gleefully rubbing cousuling Come nogar what is this instance remember so well "Well, sir, I remember that twenty years ago,
when you were admitted to the Bar, your father
came to me to borrow $\$ 30$ to buy you a suit that
you might make a presentable appearance at com-
mencement, and I have a distinct recollection that your father never paid the $\$ 30$ back to me." Confusion changed hands at this point of the without more ado.

## The Philosophy of Strikes.

 "Where are you going with the puppies, my yesterday, whom he met with three pups in a basket."I want a pup for my little boy to play with what do you say to letting me take one of them?" "I'll sell you one," spoke "p the little boy
with true Ameriean enterprise. "I'll sell you this with true Ameriean enterprise. black one for 75 cents, and the spotted one is worth a dollar.
"I think my boy would like the spotted one best, but you ask to much for it. You had in
tended drowning all of them, but I'll give you 25 cents and save you the trouble of drowning the spotted one."
spoted onty.five cents for that spotted pup ""
exclaimed the boy, "I can't stand it, taxes is high, rent is high, groceries is high, oil is down and
ging lower- oh. no I I can't take less than a going lo
"" But you intended to drown-"
"Take the black one at 75 cents."
"My little boy wouldn't like the black one."
"Take the yaller one at half a dollar, and he's
log cheap." dog cheap," "
"Well, then, you had better tell your little boy way to the river, remarking that "No party can dead-beat his way
[Oil City Derrick.

## One Day:

Give me joy, give me joy, 0 my friends, For once in my life has a day Passed over my head and out of my sight,
And my soul has naught to unsay. And my sous has naught to unsay. Who drew me from stady to play; No marmuring word to the beautiful wife
The angel who walks br my way; No snappish reply to the hundred and one Who question me gravely and gay,
No angry retorts to those who misjudg No angry retorts to those who misjudge
And desire not a nay, but a yea ; And desire not a nay, but a yea; ${ }^{\text {jo }}$, the beggar I fain would take back
No word to the tenant at bay; No word to the tenant at bay;
No word, though I know I remember them all, No word, though I know I remember them all
Which I would, if I could, e'er unsay Give me joy, give me joy, O my friends,
For the patience that lasted all day!

## Steamboat and Grist-mill in One.

 Mr. Miller, of Little Current, has on the stocks It steamboat unsurpassed for design and ingenuity. the conveyance of passengers and freicht, but alsoas a as a grist-mill. The machinery of the steamboat
will be, as in ordinary will be, as in ordinary propellers, near the stern,
while a space of tweuty feet of the forward part while a space of tweyty feet of the forward part
will be partitioned off and fitted for the grist-mill, the power being supplied by belting from the
engine at the stern. Mr. Willer, judging that engine at the stern. Mr. viller, judging that
there is not traffic enough between the ports to afford full employment to a steamboat, internds to add milling to steamboating. He will give due
notice to the farmers of the locality of his coming notice to the farmers of the locality of his coming
so that they may have their grists ready on his so that they may have their grists ready on his
arrival. Having completed his business at one port he will start with passengers and freight to another, and during the trip from one to the other
he will grist the wheat he has received for toll.
When the steamboat is laid up for the winter the When the steamboat is laid up for the winter the
mill, he hopes, will be occupied, so there will be mill, he hepes, will be occupied, so there will be
no long season of inactivity. The enterprise will,
wither as it will be one of great convenience and advantage to the barmers and other settlers.
""The Unkindest Cut of All."-The Major"Would you advise me to have those few hairs
in front cut off?" Haircutter-" U-m-Well sir, I shonld 'esitate before I sacrificed my honly sir, I should 'e
hornament !"

## redisctuameds.

## A Farmers' Provincial Association.

 Mr. P. McClaren, of Pushlinch, has introduced to the Farmers' Club of that progressing locality a system for establishing such an organization. We should be pleased to publish the plans and aid such an undertaking, and believe such would be of much benefit both to the Province 'and to the Dominion. Wo Thects. It is from from hearing both sides of any question that arod must come. ust come.Mr. McClaren says :-" The farmer must study the causes that have lead to the diminished returns
from his labor.'


The Provincial Ploughing Matches. During the past month these matches have
taken place in different parts of the Province. Perhaps one of the most successful features in them is the after-dinner speeches. When they
are directed to agriculture they often bring forth are directed to agriculture they often bring forth
discussions and lead to thought that tend to ad-
vance the interest and improvement in agricultural vance th.
affairs.

Provincial Exhibition-Nova Scotia. This, as well as the other Provincial Exhibitions This, as well as the other Provincial Exhibitions,
has been very successful. An immense number of
visitors assembled at the exhibition building. With visistors assembled at the exhibitionon building. With
other visitors were present the Lieut.-Governor of other visitors were present the Lieut.-Governor of
the Province, with Col. Blair. M. P. P., President
. of the Exhibition Board; Col. Lawrie, President
of the Board of Agriculture, and other notables. of the Board of Agriculture, and other notables.
After some remarks from Col. Lawrie the address After some remarks from Col. Lawrie, the address
was delivered by Gov. Arhibald. Of the Exhi-
bition he said : "In the Exhibition opened to-day Nova Scotia has a right to feel some pride. The
entries made exhibit a variety and abundance entries made exhibit a variety and abundance
which would do no discredit to countries more ex clusively agricultural. The stock, which forms a
notable feature in this Exhibition, affords a cheernotable feature in this Exhibition, affords a cheering proof of the progress of this department on
agricultural produce. Compare our position now agricultural produce. Compare our position The Journal of Agriculture, N. S., referring to
the Exhibitions, says: "Our Agricultural Exhithe Exhibice getting worked into their legitimate uses. One of these, not the least in importance,
is the sale and exchange of thoroughbred animals. is the sale and exchange of thoroughbred animals.
At the recent Provincial and County Shows there were a good many commercial transactions, in
addition to the Board's two auction sales, viz., the addition to the Board's two auction sales, viz.,
sale of imporied Jerseys and sheep at Truro, and of Shorthorns, Ayrshires and of Shropshire Down

Prince Edward Island Provincial Exhibition.
The Provincial Exhibition was very successful; one
of which the Islanders feel quite proud. They were favored with fine weather, the attendance was large, and the Exhibition in every respect credit
able. It was estimated that there were from five to six thousand persons present the first day.
The exhibition of fruit, vegetables and manuac. The exhibition of fruit, vegetables and manuacetured articles, was' remarkably fine. Mange
wurzel, squash, beets ano cabbage are said to
one wurzel, squash, beets ane cabbage freit, especi-
have been of extraordinary size. The res.
ally, was a surprise to the visitors. Apples, ally, was a surprise to the visitors. Apples,
pears, plums and grapes were creditable to the
exhibitors and to the Province. The exhibition of exhibitors and to the Province. The exhibition of
cattle and horses were, it is said, superior to any
ever before held in the Islaud. The exhibition of ever before held in the Islaud. The exhibition
sheep and pigs fell short of what was expected sheep and pigs fell short of what was expected.
The display of agricultural implements and car-
riages was large and good. Of grain and of riages was large and good. Of grain and of
potatoose and other field roots there was an excel-
lent display, as might have been expected. potatoes and other might have been expected.
lent display, as might
Textile manufactures in wool and in flax were well represented. The ploughing match and trial of
potato diggers and other implements finished the potato diggers and other im.

In the Advertising Department will be seen the prospectus of a new Atlas of Ontario. From the
prospectus forwarded to as it appears as if it will prospectus forwarded to us it appears as if it will
be a useful publication.

The Paris Exhibition.-Some of its Results.
In reply to an address from the members of
the Colonial Commission to the Exhibition the Colonial Commission to the Exhibition, pre-
sented by them so $H$. R. H. the Prince of Wales,
he expressed his he expressed his warm acknowledgment to the arious Colonies for the cordiality with which they
acted on his invitation to participate in the Exhi bition. He referred to the rapid progress whic of different Colonies have made and the greatnes remarkable display of Colonial produce and manufactures which were made. With the suggestion of the Commissioners of the advantages that woul museum displaying in an adequate manner the various rich products of the Colonies, he expresse
his entire agreement. $H e$ would with apply to the Commissioners of the Exhibition of apply to the Commissioners of the Exhibition of
1851 to place at the disposal of the present Com-
missioners a space missioners a space requisite for the preservation
during the ensuing year of uch goods as they may during the ensuing year of such goods as they may
desire to retain as a nucleus for a permanent collec-
tion. desire
tion.
Dame Progress says there is some alteratio cial agricultural affairs. The cost of assembling nearly 200 people from all parts of Ontario to de each year is looked upon as an item of en each year is looke,
little or no profit.
An Anstralian International Exhibition will be An in Melbourne in 1880. Perhaps some of our
hanufacturers will be there. Canada no doubt manufacturers will
The merchants of Wingham have decided not to take butte
Now is the proper time to make arrangements
for winter meetings and establish farmers' clubs.
Stock Notes.
Imported Stock for Nova Scotia. The North British Agriculturist says :-Mr. ection of cattle and sheep per SS. Canadian cor Halifax, Nova Scotia. The animals were selected personally and with special care hy Mr. Beattie.
The shipment included 67 sheep for the Govern ment of New Brunswick. These comprised a num-
ber of very fine English and Border Leicesters from the flocks of Mr. Bell Irving, Mr. Wilkins, Tin
wald Downs, and others, wald Downs, and others, as well as 30 Borden
Leicesters procured from Mr. Twentiman, Blendechassets. The remainder of the shipment wa confined to Nova Scotia. It consists of 5 Ayrshire and shorthorn cattl
Sale in New Brunswick of Imported Sheep.
The Government and farmers of New Bruns-
wick are fully awake to the importance to all classes of improved farm stock. At the Exhibiion grounds in Fredericton there has been a sale
of one hundred sheep imported by the Government. The aggregate of amount of sales was very good,
the prices varying from $\$ 11$ to $\$ 80$. The increa ing prices varying from demand for mutton for exportation has no ing demand for mutton for exportation has no
doubt made itself felt in the Maritime Provinces.

For the week ending October 23rd the number of and Canada was much below recent periods, while the number of sheep was largely in excess of any
former week, and fully compensated for the de former week, and fully compensated for the
crease in the supply of cattle. Live pigs also arcrease in the supply of cattle. Live pigs also ar
rived in increased quantity. The totals were- 892
cattle, 3,226 sheep, and 859 pigs. Of fresh mee cattle, 3,226 sheep, and 859 pigs. Of fresh meat
the quantities were- 2,472 quarters of beef and 130 carcases of mutton. There were also landed

The Bow Park Live-Stock Sale.
The sale of thoroughbred stock at Bow Park on Thursday, 31 st Oct., went off very satisfactorily. There was a large crowd of farmers present from
all sections of Ontario, and a goodly number from the States. With trifling exceptions, the ninety
lots offered were all sold, and the prices, consider the States. With triling exceptions, the niniety
lots offered were all sold, and the prices, consider-
ing the times, were very good.
(enomercial.

## 

The produce trade generally has been very quiet the past month. With the exception of a pretty ree movement in wheat there is little to note. lowed by a great many other failures in Great Britain, has had a very depressing effect on ou trade here, but still more so in England. Glasgow had a failure every day for some weeks after the collapse of the Bank. English letters, which we have seen, say they prefer doing nothing to selling produce and not getting paid for the same. What with strikes and failures, the outlook is anything but a pleasant one.
$\qquad$
Prices have been going down, down, down, for the past two months, till we think they have about touched bottom. Still we cannot see any reat chance of much improvement for some time freight and insurance which will have the effect of checking any advance on this side, even should prices advance in Liverpool. Still there is a better feeling, and a good volume of business has been done the past two weeks at a slight advance in prices. Holders along the lines of railway are now pretty well sold The French have been free bayers this season so ar, and were it not for them we don't know what wheat crop of France is very inferior, and much of it unsaleable. There has so far been little or no accumulation of wheat stocks from the largeim. ports into France with the exception of Marseilles. The imports at the more northerly French ports go immediately into consumption. A late New York circular, speaking of the French imports, says :- The 8, Sept 187. which were required to were 22,080, 903 bushels, of 1877, and the crop of 1878 , also poor, is 57 . 20,000 bushels less than the crop of 1877 . It would seem from this that if the estimates of the crops of the two years are approximately correct, to Aug . 11 , woul 1 bereign wheat in 1888-9, sept. two crops plus the amount required to supplement the crop of 1877.
peas.
The deliveries are still light, and many of them of very inferior quality, so much so that they are farmers to kop beef or mutton, which we think will pay quite as well. The corn crop of the West is so abundant and so fine that we cannot see any chance for any improvement in the price of peas. In fact, many too dear, and they cannot sell to-day at cost. They have been guided by the prices paid for splitting purposes, which
$\qquad$
barley
ish and lower again. from what we can learn, maltsters have been trying to clear out their stocks of old malt, which were heavy, and those who have Wes When these the finest samhave to take what they can get, and there will then e hopes for the medium samples of Canadian men
are being laid down in Ontario from the West at 25
to 27 c ., cost and freight. The crop of Western is very heavy and good. We know of one firm in last seas in the manufacture of oatmeal.

## bUtTER

continues in about the same state of inactivity. Only finest parcels are wantea and buyers are very nice and hard to please in their selections. Choice small packages and rolls will be wanted at fai prices the coming winter for home consumption.
chrese.
The trade in this article is at a complete standtill, and we do not know what the trade is coming to. A large quantity of August cheese, and August, September and October, is still in the factories. The parties who have contracted for the same have been either unwilling or unable to move them, There is at least one-half the August still in the country, with nearly all the September on hand. We hope factorymen will learn a lesson this season, and sell their cheese at the market value and not pay any attention to the reports and blocking prices that some of our un scrupulous dealers writing under date of 10th of A Liverpool house, writing under date of October, says :- Wo wese, plenty in cood conwhion alling by auction and otherwise at 23 s. to 3is per and latter end of August has been 33s. per cwt., and latter en. or August has been sold at 40s. 6a.. of fall cheese and the accumula tion of stocks on this side, must indicate low prices during the whole of this winter. We are of the opinion that a lot of our cheese will have to be carried into the winter or shipped on con signment.

London Markets.


English Markets.




Toronto Markets.




Montreal Markets
Grain and provisions nomiual
83 10, to strons bakers' $\$ 435$.
Chicago, Nov. 1. Wheat, per bush, 82zc to $83 c$ c corn, 33 ,
io 35 ; hogs
Live Stock Markets.
 Sheep have maintained their value of last week, although
 T.ambs have brought $\$ 3$
and $\$ 2$ to $\$ 250$ for third.

Calves-The esame prices is last week would be paid still :-
$\$ 1$ ito
third
ther Hogs-Dressed are selling at $\& 5$ to $\$ 6$; and $\$ 325$ to $\$ 375$ live
weight.


Cheese Market.
Very few factories registered their offeriuln on account ot


## -Inter national Dairy Fair

 Avenue at the American Institute, Third Avenue, 63 ro and ing through the week, under the auspicies of the different State and County Dairy Associations, the American Dairymen's Assnciation, the Northwestern Dairymen's Association, and for the exhibition of Butter, Cheese, and other Dairy Products, Impliments and Machinery for Butter and Cheese Making, Agric Dairy Buildings and Barns. Also, Dairy Milch Cows, and all other articles or commonties in any manner connected with the Dairy. The circular gives the list of premiums to bewarded; they are liberal. There are a great warded ; they are liberal. There are a great
umber of $\$ 50$ prizes to be awarded ; the sweepakes prize is $\$ 100$.
There are seven speeial awards to Canadian pro-
ucts. We do not know why the Canadian Dairynets. Association should be omitted from among he names cons, icuously announced on the top of
the circular. There is no announcement of any ee circular. There is no announcement of any and money to attend this exhibit will prevent many Western men attendin, in such numbers as
they would do if held at a greater distance from they would do
the sea board.
We wish this and every exhibition of the kind a success. Should any of our readers wish to know
more particulars about it, they might address the Sere particulary, T. M. Seaver, American Exchange, 309 Greenwich Street, New York.

## Compliment from Abroad.

 Srib,--I enclose you one dollar for a new sub-Your paper is fast gaining favor here. I will get as man papew names as possible for you. Oct. 16th, $18{ }_{3}^{\text {R. }} 8$
[Perhaps some of our readers in our own Do minion who have not yet sent in one new sub criber, might take a pattern, and oblige.]
The Air Africultcral Works. - Mr. John Watson, of Ayr, h has been awarded the only Gold Medal for Agricultural implements from Canala at the Paris Exposition. His industry and lerseverance exibitons he exhibited a laryer number of agricultural implements than any other manuacturer. He has long been noted for the exerla of his productions. He has gained Hauress nine different feed-cutters, six varieties of root-cutters, three varictics of grain-choppers, four cimeren
styles of horse-powers, and is the only manufacturer that makes the chilled-iron plow in Canada. given good satisfaction. He sold five hundred and thirty last year, and had orders for on He is preparing to make a larger quantity for nex He is preparing to make a farger quantity
eason's business. Send for lis circular.

the great devohishire CATTLR FOOD
May be relied on as containiuy no copperas on
other metaice subtante ind ind he only scientitic comblination to prodine
 thien of cetat, st
teto
Devonshire Footl.
ASK FOR THE DEVONSHIRE and take no other. Beware of Wortillerss IIITA-
noos.
nation
sition per Box. Book sent free on appli

## JOHN LUMHERS,

IvE STOCIK INSUHANC:

## insure in the



Engines and Boilers FOZ PARMUSE.
 The safest, handiest, cheapest and most ceonom E. LEONARD \& SONS,


Ten years' experience has proved OUR VRINGERS to be the best in use. With our recent improv THE BEST WRTMPV MARE OR IN USE Sold by all principle lardware dealers in the Do-
minion. Ask for it. Aake no other; or write us minion. Ask far it. 'taker no other
for Price List (Citulogn'.
Address:-
D.C.-12 Hayward \& $\underset{\substack{\text { (fazainaloque, } \\ \text { Abrot }}}{\text { Ont }}$

