## THE FARMER'S ADVOCATE

Home Magazine.
william welib, - Editor and Proprletor.
The Only Illustrated Agricultural Journa

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## The Month.

Since our last report there has been a good ad vance in the price of cheese and butter. We are now in hopes that the price will be fully main ained, and pernaps advanco The enormous and unprecedented rise in butter spirit into our dairymen - not before it was needed as the prices that have been paid have, up to with in the past few weeks, been ruinously low. Wheat has fluctuated but slightly. Farmers are not inclined to sell; they are holding in expectancy of higher prices. The immense crops in th Western States are moving faster than Canadia grain. We do not anticipate that there will be ny decline in this cerne may be looked for
The shipment of wheat from this section durin The shipment of whea been greater than at any time for the three years previous. Orders are now in for more than is procurable at present rates.
The great drain on our cattle and sheep for Curope must,' we think, ensure higher prices in Canada, particularly for first-class animals. Farmers should be fincd for killing the poor, fleshless and bony carcasses that are too frequently seen our markets kill such animals. We must aim to have the bones well covered, with an admixture of fat. It takes about as much of the valuable fertilizers from our soil to form the bones of an animal as it does to put the flesh on the bones. The
loss in marketing these poor, thin, red-streaked
bones, for such does not deserve the name of beef
mutton, should be prevented. Every good farmer will have his animals well fattened. The shiftless ones that can not or will not fatten their stock well, should be compelled to dispose of them at home, and fined if they offer such improperly fed meat on any public market. Good apples will bring a good fair price this year, if farmers will take pains and gather them arefully, and pack them pro.
rop in England is very light.
The potato crop is so bad in England and Ireland The potatoes are now being purchased in Montreal for shipment to Liverpool. This opens another branch of business that the farmers of the Maritime Provinces and Quebec should profit by; and perhaps some of our Ontario farmers may find profitable to ship from sections where the crop good and they are situated at a distance from larg owns or cities.
If you owe anybody a dollar, sell and pay it lose your reputation or pay interest on debts o accounts, therefore to all such we say-Sell! be men; owe no small debts to any one. Those that are out of debt may act on their own judgment, but as a general thing the farmer that sells eariy makes the most in the long run, as from loss in weight, interest, etc., it costs a farmer about 100 bushels per month during the time
bushels of grain. bushels of grain. may not be in as good order as they should be at this season of the year. Feed a little grain early; get them fat or in good order before the cold wea ther sets in, and avoid the poor man's banner-that is, hides and pelts hanging about in the spring of the year. Now is the season to prevent such an occurrence. If you cannot keep every animal well, sell or if you can only keep them well; there is more profit in one kept properly than in a dozen that are neglected. See that ticks and lice are not troubling them, and give salt and brimstone occasionally.
Just look round and see if there is not some spot on your farm that wants a drain opened be fore winter sets in, so that you may be able to get on your ground a few days earlier in ene spring. Woume bad places in the roads this fall? Conld you not spare the time much better now than in haying and busy time next year? Besides, you could do much more good on the roads now with the same amount of labor.
A meeting has been held in Toronto for the purpose of forming a Horse Breeders' Association. A committee was appointed to take the prelimin. ary steps for dratting a constitution Ortawa appointed Chairman, and Mr. Williams Secretary.

## Profit for Some.

We extract the following from the Sept. number of the Scientific Farmer, published in Boston "There is so much competition among the tarch-factory people in Aroostook County, Maine, that they are offering two dollars a in many cases paying one-half of this in advance, notwithstanding the largely increased acreage planted this ing the
Perhaps it would be well for some of our enterprising Canadians to enquire into the reliability of the above extract. Starch is extensively used in the manufacture of many classes of goods. Eng and useb large quantities. Fernaps our malers urers may be supplied throug Island can raise potatoes at half the price above named, and have a good margin for profit. We should look after all these apparently triffing things. The yearly demand for starch represents an enormous sum. It makes a great difference to our material prosperity whether we expend a milliou a year or receiva million a year. It is our opinion that pro industry Who will give the farmers more light on this subject?

## Freedom or Chains-Which :

Let every reader ask himself the question "Am free?" What is freed.m? Is it to have the power to think and to utter unbiased exposs pecu. Are there that prevents the free excrcise of a personal judgment? Can a rabid (Grit or dyed Tory look fairly and unbiasedly on the same question? Are there not altogether too many questions on different religious topics? Can an Orangeman or a Roman Catholic judge unbiasedly? Can any firm, private or secret society view without prejudice the the greatest gifts to man. No class is afforded are the greatest gity of enjoying these great bles. a greater opportanity Throw off all burdensome yokes and galling chains, and act, think and speak like fearless men. We have the power, but are apt to let others lead and guicle us like mules and oxen. The farmer's adowate is, and always has leen, open for tarmers to talk to farmers, and to elevate them and their calling. Is you are free, well thresh this ? why not expross yokin? There wel trough bects to be discussed this winter, and if you have ideas, plans, or useful information to impart, use your pen, and talk through the columns this journal to 100,000 people. Let not your light be hid.
Stagnant and impure water whieh cows drink while at pasture, is one of the most prominent causes of bad odors in milk.

English Letter, Ne. 6.
[from our own correspondent.]

## Liverpool, Sept. 1.

I have just had an interview with Mr. Dyke the energetic agent of the Dominion Government He is exceedingly busy with the development of the new project of the Hon. Mr. Pope for attract ing ominion. I cannot say that he seems sanguin of any very considerable amount of success, and am bound to admit the force of what he says about the intense prejudice of the farming classes here. They have, however, had a rude awakening of late. The harvest all around indicates disaster and many will be convinced, however much agains their wills, that to cling to the old order of thing means simply atter ruin, and my impression is, thau if ond an be shown, as I have no doubt the easily can, that your resources are substantial and the prospects for the future brighter than the are here, the next few months will see a conside able migration of the tenant farming classes. have friends who have been accustomed to make the very best brand of cheese in the South Derby shire grazing districts, and to receive for it 75 s . to 80s. per cwt., or $7 \frac{1}{2} \mathrm{~d}$. to 8 d . per pound, from agents have now great difficulty in finding, customers a all, and prices rule rather under than over 50 s . a cwt., or a depreciation in a little over a year of fully one-third; and this really means, on dairy farms, all the difference between a fair profit and a heavy loss. The result is that very large num bers of the Cheshire and Midland farmers now send their milk to the large towns. The retail dealers buy from them at 7 d . and 8 d . a gallon, and retail it at 4d. a quart, or 16 pence a gallon; so must be rather a good thing. I hear that the Liverpool dealers have combined to keep down the prices they pay, and to keep up the price they receive, so the poor farmers are again getting the worst of it, and the consuming public receiv no benefit. I am rapidly coming to the conclusion that to be a middleman is the finest thing out in trale.
In one of my earlier letters I referred to the intention of the Liverpool corporation to hold provincial horse and cattle sales. These sales are Market. The first of the series came off on Mon day, August 25 th. There were over 700 horse and about 30 head of cattle offered for sale. Of the former, only a very small number were really good animals, every jobber in fifty miles round who had a cobbled up bit of horse flesh of any kind for sale having appeared to regard this as a chance, the market fee being only a shilling a the fair, it is to be hoped, will develop into a really useful medium for producers and importers to offer superior animals for heavy van and omnibus work.
By the time this letter reaches you the Assistant Commissioners appointed to go out to America to collect information for the Royal Commission on Agricultural Depression will have landed on your shores. These commissioners, Messrs. Clare both practical agriculturists, and their report whatever it be, will have great weight with the tenant farming class. They have a very wide field to investigate. Care should be taken by your authorities that Canada and the great North-West get their fair share of attention. This is imperative if the labors of the Commission are to be of any real use, for they have to deal with things, not
men : en, uiries are to he made, the several Cana-
dian localities visited, and, if possible, favorably reported upon, and Messrs. Clare Sewell Read and Albert Pell will be far more astute than they are credited to be in this country if they entirely resist the wiles and blandishments of these gentry. I have an opportunity occasionally of glancing at your Canadian newspapers, and I see that the American Land Companies are everywhere promi nent with there advertisements, trying to seduce your is anly a farm compared with their But tion on this side of the Atlantic. As a sample, it was stated in the papers the other day that some eighty farmers had left the counties of Durham and Yorkshire, in one steamer, last week, fo $o_{r}$ Texas ; and further, that this human consignment had been secured by a Dr. Kingsbury, European gent for one of the Texan Land Companies. have been at some pains to find out whether this was really the case, and find that it was simply a
Yankee canard. The emigrants bound for Texa yumbered some forty souls, of whom probably not more than a dozen were agriculturists, and of these gain the majority were laborers and not farmers This man, Kingsbury, I understand, is most active in his exertions. Letters which were received by riends of mine in the Midland counties from him, promised profits of from 100 to 200 per cent. per annum. From the tenor of these letters I should pity the unsuspicious young English farmer who ell into such a man's clutches. Kingsbury has been from time to time exposed in the Field and tle effect. The fact is, that he has, practically unlimited command of "powder," and for one pound that the Canadian Government spends in inducing tenant farmers to locate themselves in a British dependency, where they will stand some real chance of bettering themselves, these American land speculators are spending hundreds in the effort to make a good thing out of our fellow sub jects' bone, sinew and saving
The reason why I allude to emigration at this ength is that never before-probably since the minds of the general public so much as now There must be many farmers who have succeeded in your country from all sorts of beginnings, and they could do an immense service to the land o their adoption as well as to their distressed breth ren at home if they would send a series of practi cal, honest, straight-forward letters to one of our agricultural or other leading papers, giving them aetual experiences from the first. This is a very important point, which cannot be brought hom the knowledge and the ability to make themselves useful in this way. That a large population would be a benefit to the Dominion no sane man can doubt, and they would be adding to their own prosperity by doing their part in this way to direct the tide of migration towards your shores.
Although the weather, as you are aware, has been unprecedentedy cold and wet, there has nuggy weather which have been exceedingly bad or the keeping of meat, and the result has been severe losses, not only in the dead meat trade but ani in American beef slaughtered on arrival here frigerating been owing mainly to the want of re 'tevensons' cold store, which I have before de scribed, being far too small and distant from the places of slaughter to be of much service in this espect. I understand that one grand lot of bullocks, brought over from the States, slaughtered at Birkenhead, and sent to London, owing to one cents a pound. You may readily imagine the loss
at resulted. It was recently stated in the paper that the Canadian Government had decided to extend the order prohibiting States cattle entering the Dominion. This has afforded immense relie to the trade here, who have been making a steady profit in Canadian cattle which were allowed to be sent alive into the interior. In fact, I am told a head, a fair profit in itself. It may be taken for granted, however, that directly States cattle are allowed to enter the Dominion you will bo scheduled, and this advantage will cease
A dealer informed me, the other day, that the Canadian farmers are keeping their wether lambs his year, and thus improviog their locks, as sug gested by me some few months ago. As this wil reach you at about the time when the flock-master end their surplus stock to the states, I again urg wethers in their own hands. Wether mutton during the next few years, will be sure to command good prices. The like cannot be expected for old ewes and rams.
I trust you will have a fine autumn and every thing propitions for your shows, and that you visitors may see the country to advantage.

## Caution to Farmers.

After issuing our September number we observed he following in the Toronto Globe
grain buying.
A large and influential meeting of wheat buyers 27th milerst Delerates were present from Elgin, Paisley, Walkerton, Mildmay, Clifford Harriston, Palmerston, Listowel, Brussels, Galt, uelph, Salem and Lucknow.
The subject under discussion was the present
nethod of buying grain. The unanimous feeling method of buyyng grain. The unanimous feeling
was that a change must be made, and grain bought according to its intrinsic worth, in order to do
ustice to the buyers as well as to the farmers who justice to the buyers as well as to the farmer
take care in offering grain properly cleaned. The feeling on this subject was so strong that the meeting unanimously agreed to adopt in thei
buying hereafter the scale of weights now in vogue buying hereafter the scale of weights now in vogue
in Waterloo and Wellingon, which is as follows,
wheat standing full weight of 60 lbs. being the in Waterlo
wheat stan
standard :

## 

For grain going over-weight the some scale to be If this plan is carried out in the localities above mentioned, most probably a similar attempt will be made in other parts of the Dominion. The re sult of such a plan would be a continued dispute in regard to the weight, and in some cases there would be au immense loss to the farmers. is much light grain ligs year, or heavy grain. He brings a load to market and sells at say 25 per brings a load to market and sells at say 25 per
cent. less per cwt. than for good grain; when delivering the bushels are weighed and a deduction of as much as 35 cts. per 60 lbs. allowed. Perhaps he has sold at $\$ 1.10$ per cwt., and by the deduction of 35 cts. per $60 \mathrm{lbs} .$, equal to 58 cts., the farmer would only receive 52 cts. per cwt., not as much as bran woul be time the time of his Thus he would lose heses. There will be but ver little of the grain that will stand the weight test. The over-weight clause is of no account to farm ers; not one in a thousand would receive the firs
cent for that. We would advise our readers cent for that. We would advise our readers to have nething train at so much per hundred weight and in no other way. We look
gerous trap to catch the unwary.

Industrial Exhibition at Toronto. This exhibition has been a grand financial success. This is due to the energetic management of
the directors. The greatest boon to this exhibithe directors. The greatest boon to this exhibi-
tion has been the great condescension of the Mar tion has been the great condescension of the Marquis and the Princess, who have done all in their power to satisfy the directors, citizens and visitors.
The enthusiasm and desire to see the Princess have drawn thousands from long distances. The railways reduced their rates lower for this than for any previous exhibition. We have now no doubt that Toronto will be able to maintain a good annual exhibition for all time to come. The feeling of the masses in Ontario against expending the Ontario money devoted to agriculture in Ottwwa has also tended to increase the attendance at this exhibition.
The display in all departments has been very good, excepting in the productions of the soil ; the
exhibits of grain, roots, vegetables, flowers and exhibits of grain, roots, vegetables, flowers and
fruits were not, in our estimation, equal to those to be seen at many other exhibitions in Canada. The show of horses was good in quality, but very small in numbers; in sheep and swine the same remark may be made. The falling off in the exhibit of Durham cattle is most deplorable. There was not near the competition in the show ring that has been seen for many years. This is to be attributed been selling for; and those who have good stock have even other complaints to make. We heard several say that it was no use to try to compete against the Bow Park herd; that the influence of riends and politics was such that injustice had been done and they would not exhibit. The great point on which numerous breeders dwelt was the case of Russell vs. Bow Park last year. Thus ery few of the Dun breeders exhibited, and judged on its own merits. The Bow Park herd stood almost alone. It is really a fine herd, but here are grave doubts if this monopoly is not doing more injury to the country than good. It is a great pity that our numerous good and noted breeders-the really practical, independent, leading farmers of our country-are driven of the field by monopoly and combination of influences. fit were pursuing their ccustom he shorthorn tion, there would aot be occasion for such regret
The Ayrshires were better represented than usual. Some really good herds were to be seen in Herefords; they were well represented by two
breeders. There was a fair exhibit of Galloways, and but four Alderneys were to be seen. Very few Devons were exhibited. The exhibition taking place at Guelph at the same time no doubt kept some of the stock from being present.
This exhibition has been a highly creditable on The citizens of Toronto and the committee have exerted themselves in a commendable manner to
have everything so well arranged. The new buildhave everything so well arrangec. The new buil
ings are a great acquisition to the exhibition.
The display in the main building is equal to the displaya made at $\operatorname{Fr}$ rovincial Exhibitions. The machinery hall is nearly filled with machinery in improvement on the ground; it is filled with agricultural implements of the latest and most ap. proved patterns. The space is not yet near large enough to accommodate all the machinery exhibited, and many implements were necessarily placed in other situations. The exhibits of grain, dairy produce, roots, vegetables, etc., are not equal to those seen at previous exhibitions; in fact many township exhibitions equal the display in
these most important departments these most important departments. There may
be more display in imported gonds and decorations,
but the real products of the farm are the proper
articles to judge from.
THE ROYAL visitors.
THE ROYAL VISTTORS

The greatest attraction at this exhibition is the ing the daughter of our beloved (Queen; we saw many ladies running-or almost running-hither and thither to catch a glimpse of her, after having been three days in expectancy. To you that have not the opportunity of seeing her we will give our opinions in regard to her appearance. Dress light blue; vail and ostrich feather in bonnet, do. brown pirasol in one hand and a bouquet good, features pleasant, kindly firm; step, figure and firm; voice fearless, pleasing decisive-in fact a lady that is perfectly capable of looking after herself, and one that would be a help to any man in any position to whom she might have become
attached. In the implement building she examined attached. In the implement building she examined with interest the workings of the Kirby reaping
and binding machine, and asked to see it bind a and binding machine, and asked to see it bind a
sheaf. A small sheaf was instantly bound and sheaf. A small shear was instantly bound and him. When Her Highness arrived where the novel, queer-looking implement,

did the asked what it was for; on first seeing it we give an illustration of this harrow : The teeth are bent spring steel about two inches wide; in working on fall plowed land they are found most advantageous, as they tear up the ground and leave
it more mellow and loose than other harrows or cultivators. The jerking, springy motion loosens the ground, and the teeth set themselves to any nequality of the surface. Several of our sub scribers, who are the best farmers in the county of York, have procured these harrows, and give the most satisfactory accounts about them. Mr. Pat-
terson, of Richmond Hill, is the manufacturer. terson, of Richmond Hill, is the manufacturer.
He feels highly pleased that Her Royal Highness He feels highly pleased that Her Royal Highness
has shown such an interest in examining the agricultural implements. We should not be surprised if he would call his the Princess Harrow.
There are a few incidents in regard to the visit of the Marquis and Princess that may amuse. For instance: A Highlander went to the doors of one of the buildings that was closed, ready to receive the ('overnor and party, and asked of the attendant: "s Maister enplon " Ash in the man und his vrow goin' to pass dis vay "" A little child called out: "Which is the P and Marquis? I can only see men and women."
The next greatest attractlon on the ground is the glass hen. This consists of several large, round, flat boxes, in the form of cheese-boxes, one of which has glass sides. The eggs are placed in the dark boxes at different times. When the placed in the glass box. In this many hundred
of eggs may be seen, some just beginning to crack others in more advanced stages of hatching. It is really amusing to see the little chickens oxert themselves, until they are exhausted, to get out of the shell ; then they remain quiet till strength is
restored, then another struggle for life. This is often repeated; when hatched they struggle to get up on their feet, then rest and struggle again. These continued trials and struggles, exhaustions and rest, are but emblems of the lives of us all. The eggs are heated by an apparatus that is regulated by little electric wires that open and close a valve when the heat is too great or not sufficient. It is an ingenious arrangement. All go to see it, and all are pleased. The chickens
when strong enough are placed under a glass mother and fed. Little boxes are at hand. Many purchase the chickens for curiosity; ten cents for a steam hatched chick, or three for twenty-five cents. The Exhibition committee will make more money out of this glass hen arrangement than from any other expenditure on the ground. They erected the building and retain 40 per cent. of the
receipts; the admission is ten cents. eipts; the admission is ten cent
Geo. Leslie \& Sons and Messrs. Stone \& Welling ton have lain out and planted a piece of land with
trees, flowers, \&c. Messrs. Stone \& Wellington's nurseries are 'situated at Fonthill. They have 260 acres, nearly 100 of which is already filled with nursery stock, much of which consists of the lates novelties and numerous varieties that are to be found in the nurseries across the lines. They ar erecting forcing houses at a cost of $\$ 4,000$. This firm bid faír to rival, in some instances, in a few years, the fine old-established
nurseries of Leslie \& Sons, who now have over 200 acres in nursery stock. We do not notice many novelties at the Exhibition, nor do the arti. cles exhibited appear to us better than at previou exhibitions. We think the highest possible excellence in most things exhibited has been attained. Still on some things there are improvements de serving of notice.
implements.
Messrs. Haggert Bros., of Brampton, show a threshing machine that has its rods cased in brass tubes, so that anything coming in contact with
the machinery cannot be wound or drawn in, as the rod revolves inside of the casing. This ma chine is so constructed that it drives the dus out of the barn. This is a decided improve ment, as we have often been troubled more with the dust-than with the work when threshing. John Abell, Woodbridge, Ont., exhibits a piece of iron; it has been two of his boiler plates riveted together, then cut directly in two through the rivets and plates. It has been ground and polished. It solid piece It is really a surprising exhibit worth looking at, to see the two cold pieces of iron plate fastened together with these simple iron rivets, should be so compressed as to becom one solid mass, without the slightest flaw, and these sections and joints to appear as smooth and perfect as the blade of a knife. This is effected by an hydraulic power. If you have an opportun.
ity, examine it, it is in the Implement Hall, ity, examine here his threshing machines are. He exhibits several farm engines made from this compressed
iron.
Mr. H. Sells, of Vienna, exhibits improved cider mills. The grinding apparatus is more simple. It consists of a series of small nails on a revolving wooden flange or drum. This tears the apples into the smallest particles, causing the
cider to be more easily expressed. His press has cider to be more easily expressed. His press ha attached. It appears to do the work more speed. ily than it was formerly done.

The Waterous Engine Works Company make a great display. Their portable farm engine stands near the implement shed; a saw-mill is run by it, and a portable grist-mill is in the shed. They can be cutting saw-logs one minute, the next be grinding and bolting wheat, in another minute lent article of flour, and in anos, or grinding they oan be chopping oats and peas, or grinding
corn in their new feed-mill. This mill consists of two small burr-stones, like ordinary mill-stones, These stones are set to run perpendicularly, in stead of horizontally as the common mill-stones. They appear to do the work in a satisfactory man ner. This Company are now prepared to sen their machinery to the States and to several othe countries. They have already exported sever of their saw-mills, and would do a very large busi ness if Canadian interests were as well after in other countries as ish interests are. The Government should enquir into the statement of Mr. Waterous. Mr. Water ous from pushing Canadian interests in foreign lands, but it is the lack of diplomacy. Englan and the States have both their own interests to attend to. They complain that Canadian interest are not fostered by the British foreign Ministera, The grist-mill, saw-mill, feed-mill and engine mak a complete set for a colony.
A seed drill is exhibited that has a combinatio to sow fertilizers. If it works well when put into operation, there will be a demand for it, as sich a machin is waw and
ient implement
A Mr. Jones, of St. Thomas, exhibits a new plan for making iron fencing and setting posts into the ground; he also shows an iron farm gate; the atle new designs to us, and are the most sensible gate and fence we have seen exhibited for many cears. The exhibitions have generally been filled with a lot of patent fixings of this kind that have not been worth the space occupied.
E. Leonard, of London, exhibits an agricultural ngine that attracts considerable attention.
Mr. John Watson, of Ayr, exhibits his horsebinder. This implement is to follow a reaper, pick up the grain and bind it. Mr. Watson is one of our most enterprising manufacturers, and makes a point of making his implements give satisfaction to purchasers. He has expended a good deal of time and money in perfecting this machine. Hex sar vest. This machine deserves an examination. It will be at most of the leading exhibitions this autumn. So will most of the good implements to be seen at this exhibition. We presume that the exhibit of implements, grain, vegetables, stock and fruits will not be excelled at other exhibi tions. The building and royalty will not afford a much attraction as they have at Hamilton, sin
because other places are not so well favored
There are very few exhibitors from east of Osh awa or north of Richmond Hill. Only a few of the Hamilton or Brantford, Paris and Ayr manufacturers exhibit
in full force. The most surprising erives all the works. The surprise is to see this fine, powerful engine smoothly and beautifully running, driving the whole of the machinery in this large building, and to think that two weeks before it was rumning in this building it was all in the form of bars of rough pig iron, as the manufacturers, Mlessrs. Thompson \& Williams, of Stratford, only received the order to construct it two weeks before it was

## petroleum proêucts.

Waterman Bros., of London, made the most attractive, astonishing and valuable exhibit to be seen in the main building. It consisted of suberaneous productions, brought mandeds our use and attractive and pleasing to the eye It consisted of petroleum in its refined state and the refuse from petroleum made into wax, moulded and carved into beautiful devices, pure and colorless. Some was also colored with the various shades of color seen in the rainbow. It must be seen, used and thought of to fully comprehend the value of this enterprising and valuable display the grain, sekd and vegetable department is a very meagre display; in fact, this department we consider a total failure, Mr. Rennieand Mr. Sim mors, Toronto, being the only seedsmen ; the other seedsmen have thought that monopoly was want ed, and they might have it. The names of Keith,
 ernment exhibits and medals are displayed. One person makes a display of several kinds of grain, among which is a black-bearded French wheat from which he is making a little cash- 20 cents pe head being the price charged.
The Egyptian wheat-called the Eldorado-ha been awarded the first prize. This is just in accor dance with the awards that have too often been given by the Provincial Board. This first prize wheat
is undoubtedly the most dangerous and useless is undoubtedly the most dangerous and useless
wheat for Canadians generally; it can only be wheat for Canadians generaly; in all others But many think that a first prize implies a meri torious article for general use. The firs prize or a medal is not always given to the mos meritorious exhibit. We know from experienc of what we speak regarding this Prize and Honor
question. For instance, the first prize for a reap question. For instance, the first prize for a reap Trial at Paris was given to the very worst machine exhibited. It helped the sale of the machines fo prize machines were badly sold men. That first prize machine is so well known that the machin has become extinct, as this first prize wheat will. Mr. J. H. Rowe, of King P. O., made one of the most meritorious displays in the building. It con sisted of many varietics of potatoes, some of which
were entirely new, and promise to be a great acqui sition.
The city was decorated with arches, banners and illuminations. The illuminations were arrange into various devices. The one that drew our large illuminated painting, representing a lady having the features of our queen standing near the Niagara Falls. Over this illuminated painting were these words,

By far the greatest attraction at this Exhibitio was the presence of the Princess Louise. W know of one lady who went from west of this cit more particularly to see Her Royal Highness, and large numbers went from long distances to render their welcome and satisfy themselves. A good opportunity was and were satisfied.

Cheering reports have been received of a bountiful harvest having been garnered in NewfoundIand, Prince Edward Island and Manitoba. Also that the harvest has been a good one
Missouri farmers are offering their corn at ten conts per bushel in the field or fifteen cents de-

The Government Sale at the Model Farm at Guelph
This sale took place on Friday, the 12th of Sep tember. There were over a thousand farmers
present, about seven hundred of whom partook of lunch. We give the following figures to show the average prices realized
Average of Shorthorn Yearling Bulls
Hereford
Ayrshire
Heifers.
Cotswold Shearli.......
(. Ram Lambs...

Leiceste Ewe Lambs...
Leicester Aged Ewes.
Ewe Lambs. Southdown Shearling Ram Ram Lambs.
Shearling E Shearling Ewe Oxforddown Shearling Ram Berkshire Soars. Prince A. Windsor Boars....
Spring Wheat (Russian No. 7) Spring Wheat (Russian

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| :--- |
| 61200 |
| 312 |
| 100 |}

## $\$ 234455$

These sales are perfectly demoralizing the business of the old staunch breeders of this country. They could formerly afford to import, improve, feed and maintain their herds for exhibitions, but now when the Government taxes them for eans of paying for inferior ininous prices to the public, it discourages them. Every breeder that we spoke to in Guelph about this sale was disgusted with it. They say it prevents and checks rivate entery already be seen at the exhibitions. The former energetic breeders are growing fewer in number, and the magniticent herds of cattle and looks of sheep are not equal in numbers to what were exhibited before this robbing institution was established. The sooner this Model Farce is abandoned the better it will be for the farmers of Ontario، As for the elucation, there is nothing more taught here than ought to be taught in our schools in the country or at the veterinary col leges. And these sales andy onterfering with business of improving the stock and seeds of our country in a better and cheaper manner than it is being done by the Government. A way with it It was only a stolen idea-stolen from a farmer for the purpose of making an office for a person that acted strongly for a politician. It was sprung on the country at the last of a session; then a chang came and it was shifted to Guelph. No man dar
tell us that it was ever established for the farmer' benefit or by farmers.

Seed Wheat at $\$ \mathbf{\$ 5 0 , 0 0 0}$ per Bushel An illustration and particulars of a spring wheat to be introduced this year will be given in Febru ary issue of this journal. first and most reliable accounts procurable about seed wheat during the past 14 years, and continues to inform its readers about frauds and deceptions. We are constraine whem furnishing particularef we request no on to ask us about it until that time.

## The Fall Exhibitions

 The busy bustling time of the Fall Exhibitions is nearly over for this year, and we can assure you we are glad of it, as there is such a thing as excess of pleasure. We could not attend to all if we were ever so anxious; neither couls as we should like to do. We attended the long, three-week's exhibition at Toronto a portion of each week. We also visited the Guelph and London Exhibitions. In London we met several of the members of the English Commission, who are now on this Continent examining our country; also Mr. Moore, the editor of the Irish Farmer, published in Dublin; and Mr. J. G. Ramsay, the Honorary Commissionerfrom South Australia. The two last-named genfrom South Australia. The two lemen expressed themselves highly pleased with the exhibit at the Western Fair. They were quite astonished at seeing such a display, and were both most favorably impressed with Western Ontario. It would not be practicable for us to publish the whole lists of the numerous excellent exhibitions held this year. As each have exhibits of a superior quality, we compiled our prize list from different exhibitions. There are undoubtedly some omissions or commissions in every paper
published. We have not been able to devote as much attention to this number as we could wish. Now the long winter evenings are set in, the busy season is passed, and exhibitions closed, we must devote our attention to the lessons taught by them. All who have attended any exhibtion should have learned something. Perfection in the management in all departments is not, or perhaps never will be attained, excellent as exhibitions have been, and however much we have each some particular improve them. way in will grumble or complain. Some, for tri vial causes, will slacken their interest and exertions because they cannot have everything as they wish. A person that exhibits and does not gain a prize is deserving of the thanks and good will of the community far more than that sordid, tight fisted individual who has a large tract of land, and never comes to the exhibition to profit from the labors, cares, and researches Legislators now see is our impression that our Legislators now see
that the existing laws governing our agricultural affairs must be remodelled. They now see that their recent Act is not working satisfactorily. We well know there is a desire on the part of many : egislators to act fairly and justly to the farmer, and that the party that acts most in accordance with the wishes of the farmer must be in a ma jority when subjects are fairly and impartially looked into. We know there are some who wish to curtail the power of the township exhibitions There are others who amalgamated. Then those wish curtailed, so as
the union and county exhibitions the union and county exhibitions curtaile, sow
to strengthen the influence and power ot the Provincial Exhibition. The following will be a good heading for this winter's discussion : - " The Future Manafemest of our Aciricletural Exhibitions."
We want to give fair play to this question as well as to all others. We merely lay the question before you now, and request any to express their opinions under the above heading. Communica
tions should be in the office by the 20th of each month, but as this issue is late, we will extend the time for this month until the 25 th.
At the International Agricultural show held not long since at Killurn, Eng., it was considered a
remarkable thing that while there were no dairy remarkable thing that while there were no dairy
exhibits from the United States, Canada was represented by a cheese a ton in weight made by Mr.
Morton, of Kingston, Ont.

## Stock Diseases.

In Toronto we met the Hon. W. G. LeDuc, ComIn Toronto we met the Hon. W. G. LeDuc, Com-
missioner of Agriculture for the United States. We are in receipt of several of the Commissioner's reports from Washington. They embrace a fund of useful information on various subjects pertaining to agriculture, stock, etc., for which we return our thanks. Among a few questions sent us in one of the publications is the following:
"I will be pleased to have the results of any experiments you may have had in the prevention, treatment, or cure of infectious and contagious
diseases of swine and other classes of farm animals, and the extent to which such diseases
prevail in your locality.
"WII. G. LeDuc, Commissioner."
In reply, we have never yet seen an anima affected with pleuro-pneumonia, nor heard of one in this Dominion. The hog cholera was introduced into Canada two or three times, but we are pleased to state we have only seen one lot of hogs suffering from this disease. There have been five or six head affected in Canada. At case could be found. do not know that a single case could be found The foot and mouth disease has also been intro duced among us, but we are pleased to state tha we have not heard of a singl a year. Trichina we
existing here for more than a have never heard of as having yet been introduced. We furnished immediate information to our Gov ernment as soon as we saw the first case of foo and mouth disease, also in the first case of ho cholera. The authorities, either wisely or unwisely, took no steps to prevent its spread, but endeavored to prevent the facts becong free from either we hope and believe we are no. We have heard of few cases of glanders. Should any case of that disease again appear, we believe our authorities are now prepared to take immediate steps destroy any animal affected by it.

## The Provincial Exhibition,

Farcially cited the "Dominion Exhibition," has een a grand financial failure, despite the flatter the consequent attendance (see papers.) Thi ournal has predicted a failure, and ruination to the Provincial Association from the time it wa first held in Ottawa, if it was again attempted We attended it four years ago, when it was irn held there. We have cautioned the pubnil, an ven informed the fon. A. . funds were not safe. There was danger; that the funds were no se the foretold the total collapse of this body. Four years ago, when one member of the press only was in the board room, a motion wa carried that strangers be cleared from the room The only stranger (the writer) left, because one had the honor to say one word for the presi We never have entered the door oil some of the old since, and never will again removed. The pub members either resign or are removed. The pub-
lished receipts indicate how far from correct the guesses as to attendance were. The gate-money amounts to about 89,000 ; this the Board palms off on the credulous farmers for the receipts of for a Dominion Exhibition! The extravagant or wasteful expenditures of this Board have been increasing at the rate of about $\$ 3,000$ per aep this perhaps the attempt may ther suise such as Board together under some
the " Dominion Exhibition."
The facts are apparent to us, and they have The facts are apparent there is something wrong. Some of the honorable members that are on the Board have had spirit enough to disagree with some of the iniquitous acts of the Board.

The honorable members should insist on a riggid and close inspection of all the affairs of this Board for the past fourteen years. Only a partial examination was made some years a wid, this Association in its various iniquitons undertakings, to help them again.
Farmers, caution your member, and if he votes for a grant of money to be expended against your interest, reject him at the next election. The receipts of this Board from tickets mold, exhibitors' fees, and booth rents, together with the Government grant, amounted to $\$ 39,000$. We hoar there were receipts that were not even entored in this. For instance, al on Pounts of money having we haven stolen; also that at times the turnatiles, checks, and tallies have been abandoned. Who stole the money ! or who is responsible for the abandonment of the cheoks? The Board have been very careful to keep this from the public. Why do they not defend themselves from these imputations that are constantly thrown outagainst them.
Manitoba made a very interesting display of roots and vegetables at the Ottawa Exhibition. From what we observed whan in Manitoba we be
lieve they can excel the farmers of the Eastern provinces in many kinds of vegetables. The ex hibit was very fine in this department. The grasses were very good and drew forth the praise and admiration of all. The soil exhibited we think could not be excelled. The wheat is of ex cellent milling qualities, the oats good and bariey fair; the pens were much belf elessed all observers to see. The the work, canoe, stuffed birds and skins made quite a miniature museum.
At the annual meeting of the Provincial Association, at which the delegates attend, the Promi. dent delivered a long and well-prepared address, which, when alluding to the independent exhibi tions of Toronto, Hamilton, Guelph and London, he said: "It is questionable whether this stata of things should be allowed lo not be resorted whether legislative action should sot se be made for the proper control of these rival shows, so as ot to impair the great usefulness and Provincial celebrity of this Association." (See report). Rev. Dr. Burnett proposed a vote of thanks to the President for his address; Mr. Brown seconded t. Carried.

Not a voice was raised against this clanse, there ore it goes before the world with the sanction of the whole hoard and ine silen that this clause delegates. It is our ested to the President by some of his co-offlials, as we really think that Mr. Willmot wishes for the welfare of the farmer. These annual addresses are generally cut and dried before being delivered. There are other clauses that might be criticized, but this attempt to commend to our Legislature to enact and in most cases out of existence these excellent and in most caaces
better managed Exhibitions deserves, we think, a severe censure from those that have so ably gup-
ported these City Exhibitions-namely, the far. ported these City Exhibitions-namely, the far-
mers. There has been far too great an attempt made to make agricultural progress subservient to political purposes. We hope some of
may express their views on this subject.

It is curious that in all the enterprise witnessed in the breeding of the various classes of horsees, in the really fine carriage horses command a higher
thai rean
price, relatively, than any other. They are alwaya that realy ine carriag any other. They aro alwayi
price, relatively, than and scarce, and for the reason, as we beliveve,
average farm horse is undersized. Carriage horsee are produced by crossing staunch thorongh-bred
upon upon large, handsome, room.
money in this class of horsea.

Notes from Devonshire, England. [from our own correspondent.]

Exeter, Devonshire, Eng., Sept. 10. For the past two months I have been roaming about among the farmers of Devonshire, taking notes of their modes of doing business, and admiring the beautiful scenery with which they are surrounded. The farmer hereab of hositality. The English farmers that I have come in contact with are not slaves (as I have heard them termed in Canada), but are just as free as the air they breathe. They are intelligent, industrious and generally contented.
generally contented.
Of course, just now there is great depression in Of course, just now there is great depression in
agriculture, and some of them are "death on Americans" (which includes Canadians) for the way in which they invade the markets here with all kinds of produce. In this connection one of the leading English newspapers observes': "If it be asked whether, in the face of the prevailing gloom and doubts as to the eventual falling off in American competition, farmers may look hopefully to the future, our answeris in the afirmaive. Tho is nothing in the situation to prevent the British farmer from outlasting every competitor. He lives in a land blessed with Free Trade, which means that he can work his business at less cost, both as regards the price of labor and plant, than America. He has the richest and most constant market in the world at his very doors. His trans. port service is organized so that it does not-as in the case of his American rival-rob him of nearly all his profit. The British farmer has a tilth to deal with which to a great extent is excellent and easily worked. With these natural advantages in his favor, how is he to get a fair chance? The present Government, in introducing the Agricultural Holdings Act, would appear to have approached the soll, if made operative, would be the ciple of ing of all schemes for giving the farmer a clear field. The principle is that he should in his operations have what every other producer in the country has -security for his capital.
Americans, however, are not the only ones invading the English markets. Australia bids fair to be at no distant day a very powerful rival to the American continent. Several cargoes of Australian wheat orably received.
Whilst the agricultural situation throughout Great Britain generally is said to be fraught with the gravest alarm, on account of heavy rains, certainly this part of England has no cause of complaint under that head. The most delightful weather I ever experienced has prevailed hereabouts for two or three weeks past. The immediate past week has been what they call here
"smoking hot"-weather to me perfectly charm-ing-with no sign of rain, and in consequence most of the grain in Devonshire has been "saved" in a good, healthy condition. The chief complaint in this neighborhood is over the failure of the potato crop. The grain is not put into barns here as leisure
The mode of carrying grain in some parts of Devonshire is very old-fashioned, and on my seeing it, it struck me as being not only very peculiar
but very romantic. As many of your readers are but very romantic. As many of your readers are no doubt aware, certain parts of this county are hilly in the extreme, son of the farming lands rising to an extraordinary height, and it is found sides of these hills. When harvest time comes, therefore, horses are supplied with a sort of huge
basket or cradle, strapped on to their backs, and
the grain is loaded therein and so moved to the " mowey."
In the more remote parts of Devonshire the great reaps" so popular in all parts of England many years ago are still kept up with all their attendant jollification. The hills before alluded to prevent the use of reaping machines.
In going over certain farms I noticed the ground covered with thousands of good-sized stones, and why they did not remove them, frer understand how a scythe, \&c., could 1 ass oyer the land and properly perform its work with such obstructions in its path. The answer to my query I will give you in nearly the same words as came to my ears : "Well, you see, the soil in these parts is naturally very wet, but what it would be like after rain if it wasn't for these stones it is difficult to say; after rain the sun strikes these stones (all lime rock) and makes them good and hot, so that their warmth actually dries the ground more than the direct rays of the sun; we therefore let them stop, you see, not only to dry the ground, but to ould. fhat, to me, was a novel idea, and I for the readers of the Advocate.
Enormous quantities of sea weed and sea sand are used as manure by the farmers living any way seems to be lime and bone-dust.
Of course this is the county famous for its cream, and I fully bear out all that has been sung the milk is to stand the tins in water, and make the latter hot. The old way that I remember when a boy was to place the tins on live coals, and some follow this plan to-dsy.
It will
earn that sunflowers and tomatoes Cane no stran gers in England. On a recent ramble in the country near Exeter I saw several groups of sunflowers, in every respect the same as I saw them in Canada. Tomatoes are exposed for sale in every fruit dealer's window.
In a leading seed store of this city I notice un usual prominence given to "American potatoes" -such as the "Early Rose" and "Pride of Onario -and can ass Tisplay beside the best English spud
The statistical and commercial department o the Board of Trade recently issued a summary of the agricultural returns collected in this kingdom under the principal crops was as follows. Whend 2, 890,136 acres; barley, $2,667,103$ acres; oats, 2 656,575 acres; potatoes, 540,842 acres; hops, 67 , 715 acres. Compared with June 4, 1878, the fore going shows an increase of 8 per cent. in barley, and of $6-4$ in potatoes; a decrease of $10-2$ per cent. in the area of wheat, 1-6 in oats, and $5-7$ in hops. The total number of live stock in Great Britain on June 4 was : 5, 856,599 cattle, 28,154,881 sheep, and $2,091,464$ pigs. Sheep are 251,325 fewer than last year, while pigs are less in number by 391,784 . Compared with 1878 there is an increase in cattle of 118,471.

Devonta.
C. G. T. says: "I have made no better butter or cheese from tame grasses than from the wild. The wide leaf and blue joint varieties of the wild grasses, both for pasture and hay, were the most valuable." This may be true, but he forgets to compare the difference in the quantity produced by each. Five acres of wild grass to feed a cow,
and one acre of tame grass! The wild strawberry is of fine flavor, yet who would say it strawberry as one of our improved varieties?

Picking, Packing, Keeping and Marketing Appies.
Before picking is commenced, suitable places
should be prepared in the orchard for the temporary storing of the apples. Select a dry tempor of
ground near the trees.
Drive into the stakes at proper distances apart, against which set two or three boards on their edges, thus forming a
bin with boards on three sides, leaving one side bin with boards on three sides, leaving one side
open to carry in the apples. If dry open to carry in the apples. If dry epots of
ground cannot be obtained, lay a few old boards ground cannot be obtained, lay a few old boards
for the bottom of the bin, on which spread a little
clean straw cr hay clean straw cr hay. Make enough of these bins
to hold the apples withont mixing varieties to hold the apples without mixing varieties. Ap-
ples taken from the trees before the commencement of the sharp frosts keep better than if left
on until late in the fall.
Apples should be perfectly dry when taken from picking use oval-shaped half-bushel baskets. Drop all inferior apples; be careful to put none in the basket but sound, smooth fruit, of fair size. When
the basket is full carefully pour them in the bin, and when that is full, or at at night, cover with
and the apples while in the orchard with straw. It makes them too warm, and there is no danger of
the fruit being injured by frost the fruit being injured by frost until quite late in
the season. They must be kept dry and from the sun.
To keep apples nicely a dry, airy, light, clean
cellar is necessary. The sides and ceiling of the cellar is necessary. The sides and ceiling of the
cellar should be cemented with plaster to keep an even temperature of cold, and the bottom of the cellar cemented with waterproof cement to keep
out the dampness. In such a cellar bins three feet out the dampness. In such a cellar bins three feet
wide may be constructed around the sides and Wide manes through the centre. These bins may
we filled with apples from the bottom to the height be filled with apples from the bottom to the height
of five or six feet, without danger of injury to the bottom apples by the weight of the upper ones.
Make the necessary upright partitions in the bins o keep each variety upright partitions in the bins better when stored sin large Apples keep much spread out in layers on shelves. When bins canput into barrels and headed up tightly, and stored away in the cellar. In this way they, usually keep
tolerably well. Vegetables of no kind should stored in the cellar with apples.. In a temperature
suitale for keeping the latter most vegetables
will freeze. On the a
On the approach of cold weather the apples in lar, putting away noe carefully moved sound fruit. the cel-
or straw should not be put in with the fruit. They or straw should not be put in with the fruit. They
draw dampness and speck and rot the apples. Ap. draw dampness and speck and rot the apples. Appes put away according to these instructions may
be kept until late in the following spring-late
keepers until midsummer. Whe until midsummer
When packing for market new barrels are preferable; old ones will answer provided they are sound
and clean. old or new barrels, the middle hoops must be well nailed to keep the from slipping
down, and the nails hammered down th the ingide down, and the nails hammered down on the inside
of the barrel. When packing select half a bushel of smooth apples of uniform size. With the hand
place alayer in the bottom of the barrel, fitting place a layer in the bottom of the barrel, fitting Now place a row around the side of the barrel
with the stem next the the with the stem next the stave; then fill uarrel the
centre closely like the first layer, stem down, after which closely like the first layer, stem down, after which the barrel may be filled by pouring them in
carefully from the measure. When the barrel is
half full shake it a little. half full shake it a litttle, and as it is filled con-
tinue the shaking, occasionally giving it sharp raps tinue the shaking, occasionally giving it sharp raps
on the floor, which packs the apples closely toon the floor, which packs the apples closely to-
gether. When full level up with smaller apples, making the top row half an inch above the staves of the barrel. Loosen the top hoops, lay on the
head, and with a screw or lever-press force it down to its place; tighten the hoops, remove the press, put on the top hoop and nail it fast. Nail cleats, on the inside of the staves to keep the head in.
Now turn up the bottom end of the barrel and
mark it for the top, with the name and quantity mark it for the top, with the name and quantity
of apples, being careful to give good measure of apples, being careful to give good measure. If
you wish to ship the apples in the fall or beginning of winter, the packing may be done in the orchard, but the barrels must be kept dry after packing.
If the apples are to be shipped during the winter if the apples are to be shipped during the winter
or spring a packing place must be prepared at or or spring a packing place must be prepared at or
near them. When apples are shipped in cold weather the barrels should be lined with paper. If
the weather is very cold, two thicknesses of the weather is very cold, two thicknesses of paper
being used and the barrels tight, apples may be
shipped a considerable distance with safety. being used and the considerabledistance with safefty. Care,
shipped
however, must be taken that no part of the wood however, must be taken that no part of the wood
touches the fruit.--[Cor. Germantown Telegraph.

## The New Milking Machine.

## by prof. x. A. willard, of new york.

 For many years dairymen have been wishing for some mechanical device to milk cows-a machine combining the following requisites: Milking rapidly; drawing all the milk from the udder with out injury to the teats or udder-causing the cowno more uneasiness while milking than hand milking, and having no tendency to dry the cow of her milk when used from day to day and from week to week; and finally to be simple, not liable to get out of repair, easily operated and easily cleaned, and as efficient in every respect
Inventors have been trying for years to supply such a device both in this country and in Europe The demand for it is very great, and especiaportan this time when economy in labor. Such a machine would relieve the dairyman from a vast amount o drudgery and be a saving of labor on an equality with the mower and reaper.
The drudgery and worry, to say nothing of the cost of hand-milking, in any considerable dairy of cows, can only be appreciated by those who are engaged in dairying. It is a kind of work that can not be put off or slighted with impunity. First-class milkers are never flenty even in the dairy regions, and immense losses are annually sustained in the aggregate on account of cow ferior manner in which cows are milked. A cow to yield the best returns shoilk should be drawn regularity as to time, completely emptied, since rapidly and the milk undrawn at the time of milk. leaving a tendency to lessen the quantity from day to day, and thus dry up the cow. A good milker will milk about ten cows per hour; and in large dairies from ten to twelve cows is the number usually allotted to one person night and morning. A dairy of firty cows will require from four to five milkers, and in many instances the dairyman is obliged to hire more help than he actually requires on the farm simply to obtain the needed help in milking; in other words, if the milking was not taken into account he would ohend. Thus it will be seen the cost of extra labor, including board, will make quite an item of expense to be charged to the account of milking. In Central New Fork women can occasionally be hired to come upon the farm morning and evening and help do the milk ing. Such cases are not by any means common, but where they occur about $\$ 3$ per week is given to each person for the service, t
course, furnishing their own board.
But even when the dairyman has provided for his help in milking, there are many accidents tha are occurring from time the work upon the few his force, thereby throwing the work upon the few remaining hands, who are compelled to overwork The strain upon the moser unfrequently serious, lam work at mand so as to incapacitate it for work dur ing longer or shorter periods of time.

- many persons never learn to be good Again, many persons mile others slight their work and abuse the cows, unless closely watched and prevented by the proprietor or manager of the dairy.
It will be seen, then, that if cows could be properly milked by machine the dairymen would be comparatively independent of hand-milkers, while comparatively the work could be done with more regularity a uniformity, and with less abuse to the stock.
mileing tubes. Among the earliest devices brought out for milkAng were milking tubes, made of silver or other metal, and arranged so that by pushing the tube reservoir at the base of the teat, the milk was tapped and drawn off. These tubes could only be used for short periods, because they soon irritated and inflamed the milk-duct, which not unfrequently esulted in the loss of one or more quarters of the dder. From time to time these things have been dvertised, but warned against them
the colvin milker.
Some years ago a Mr. Colvin invented a milker which operated upon the teat by suction, and although it drew the milk rapialy, it dia not empty the udder completely, and hence never went int
practical use among dairymen. This is the machine which has figured considerably in England, but it had defects which proved fatal to its success. A Colvin's death the patents came into the hands of Mr. A. A. Durand, whose attention was thus turned to the subject, and who has for some years the durand milker.
It is only quite recently that Mr. Durand has felt warranted in bringing his milker to the notice of the dairy public, and he believes he has over ome defects in previous inventions, and is
ble to milk cows successfully by machinery.
The subjoined cut will illustrate the gener eatures of this device.

dURAND Cow milker.
In the arrangement as here shown the machine is stationary, the cow entering the stanchion, and when milked, by simply drawing a cord, the stan hion opens like a g t into the yard.
By a very simple arrangement the working of a ubber diaphragm under each "teat-cup" produces sudden strong remitting suction, the centre reseroir and so out into the pail.
The operator places the teats in the teat-cups, then turns the crank slowly, and like four calves, he milks the cow; like them, also, the machine draws and stops drawing to swallow
This invention more particularly relates to "cow milkers" in which a series of diaphragm pumps are operated directly by mechanical means for ex tracting the milk simultaneously from the severa teats of a cow. Although the invention is her shown adapted to a hand-power micable to milking apparatus driven by dog or other power, or to any number of such milkers deriving their motion from a single prime mover,

The milker, which is attached to a post, has an universally adjustable arm-like support, including an extensible driving shaft, whereby increased facilities are afforded for operating and adjusting it to suit different positions or sizes of cows being milked.
To obtain for the milker a "bunting" movement ing the machine to large or small, short-legged or long-legged cows-cows with very pendant udders or contrawise, the arm-like support has connected with it an adjustable oscillating device.
The several pumps are also made adjustable up or down independently of their frame or holderto raise or lower the teat-cups which they carry for the purpose of adapting said cups to different leagths of teats or different altitudes of the latter from the ground. This is done by means of adjustable parallel bars.
The teat-cups are of cylindrical, or approximately cylindrical, form throughout their length, and ith an internally projecting rounded edge at their pper end, thus securing a clos y cutting or damaging action.
Each teat cup is composed of a nest of cups, fitted with flexible packing, and by inserting or removthg an inner cup they also prot.
We recently saw the "Durand Cow-Miliker" in operation, and watched its action in milking different cows for two or three days. When first operated upon the cows held up their milk to some extent, whihch was to be expected, on account of their being placed in new conditions, with several people looking on. But after becoming acquainted with the operation of the machine they gave down their milk, and were milked clean. The cows showed no uneasiness while being milked, but rather seemed to enjoy the operation, thus showing that machine-milking causes no pain or annoyance. The machine is rean direction desired, eans, an whe of it appered to be a suc and fro
Mr. Durand claims that one machine will milk twenty-five cows in an hour, and that two ma chines and two persons are all that is required in a dairy of fifty cows.
Of course we cannot say what the result would be in a long trial of the machine in milking, but from its uniform action we see no reason to doub the slatement of the inventor, that "cows will hold out better and yield more milk than whe milked indiscriminately by hand."
The machine is certainly most ingenious in its construction, and we hope its operation will prove a grand success.

## -

The best floor for cow stables, according to a cor respondent of the Cultivator, is made of concrete, "or what is simpler and cheaper, a mixture gas-tar and sand, with a little cement in to harden it." This can be laid immediately on he gro Its auvantages and or washing, and the ceanure is saved, none of it leaking tbrough the floor, and thus being lost. This floor can be laid by anybody.

There is much excitement over the report that Peuro-pneumonia has appeared among the cattle Paterson, N. J. The authorities have quaranined a drove from Michigan from which three have died, and forbidden the sale of milk by the wner. State Inspector Force expresses the opinion that the disease is increasing. An will de vastate the entire West.--[Conn. Yarmer, Aug. 30.
§tock.

## Long-Horned Cattle

When at the Royal Agricultural Exhibition, in Bristol, last year, we noticed particularly the old English long-horned cattle-more closely, perhaps, as we never have seen any of this class of cattle
in America. We engaged an artist to sketch the head of one animal, which we have previously published, also the hind quarters of another animal, the tail of which was imbedded in fat, as you see in this, the correct representation. We do not pretend to claim that the long-horned cattle the Herefords, for beef and beauty; but the long-horned cattle have, and most probably will continue to retain, their admirers, especially in the old "Stately Homes of England," where people may see many undreds of deer in one park, scores of buffaloes in another, and rabbits, hares, and pheasants by the thousand, on many of hese fine old estates.

## Contagious Diseases of American

 Cattle.We take the following extracts from an ddress to the American Agricultural ConM.ess, Rochester, N. Y., by
M.D., V.S., Chicago, Ill:-
CLANDERS AND FABCM

Glanders and farcy have prevailed, and prevail to some extent here and there in all of the western States and Territories, among horses and pected. The importance of stringent legislation or the extinction of these twin diseases, is evident oo any one at all acquainted with the dangers attending their un
incurability.

Among horned cattle, the contagious pleurothe British has, during the past year, thanks to cration by our Government, and some headways has
been made towards its extinction; but, as yet, no
laws have been aws have been enacted by Congress for the purpose of preventing its spread from one State to
another, or over the whole United States. This isease has been in our country a considerable number of years. If proper means had been dopted at the time of its incipiency, we should eever have seen it again, except by new impor-
tation ; and until proper measures are taken, or Congress enacts laws in relation to trade and trafSinue to suffer from it, One of the greatest sources trade and traffic in disease is the unrestricted trade and traftic in cattle. Wore proper precau-
tions adepted in this direction, within certain tions adepted in this direction, within certain stamping-out process inaugurated, we should soon The in vasion of a district or country pneumonia peumonia contagiosa is insidious. The disease ommonly escapes observation as it steals into a
arm or country, and is conseguently more destructive than any other known epizootic lisease. Wherever the diseased animals have been the disease has not spread; but where monthe have elapsed before measures have been adopted, has insinuated itself into many parts of the 1 feel eonstrinel to 1 the Ifeel constrained to repeat that the immense
losses among live stock in this country is greatly to be accounted for in the absence of a a sutticient number of men who have been thoroughly and
scientifically
educated in this branch of science. That the great multitude of intelligent farmers and live-stock owners in America should
be obliged to contend with be obliged to contend with quacks and charlatans
of the lowest description, while all other civilized nations, some of them as far back as a a hundired
years ago, have heen provid years ago, ) have been provided by their Govern-
ments with amply endowed veterinary colleges is beyond all sound end reasoning-is, in fact colleges, is in less than a national disgrace, and justly merits
the derision of other nations,

Pampered Sires Produce Puny Offspring.

## Although often ignored it is impossible for stock

 reeders to set aside the axiom that "like pro duces like." Not only does the healthy form, vig orous constitution and temper appear in the pro geny, but faulty shapes, weakness, and disease ar also notoriously hereditary. A great deal of preventable disease is reproduced and distribute the use of unhealthy parents. Among high bs sacrifis of valuable strains it is often a seri which has e consign to the butcher an animal which has shown faulty points or delicacy of con-stitution. Time, flesh and condition are vainly

or expected to remedy the mischief. Being a mere chance inferior outcome of perhaps a fairly vigorproduce sound stock. The exception does, however, but prove the rule. The conservative powers of nature are fortunately great. There is a strong tendency to revert to the normal type. Inferior ol superior specimens, especially of an old-estab lished sort, do not mark all their progeny with either their shortcomings or their excellencies.

rome hers, mecomes more and more important to produce a These are not the times in which farmers can afford ediously to rear weakly animals, to waste good or folds occupied with inferior the stables, yards diseased specimens.
Not only
vigorous, protitable, free , tock be themselves vigorous, protitable, free from disease, and be
descended from a race which have possessed these
desirable qualities; they must, moreover, be kept
in conditions which will enable them to maintain in conditions which wil enable them to maintain mals, and especially males, are reared too artifi-
cially; they are unduly pampered ; fat is developed at the expense of muscle, insufficient exercise
interferes with healthy vior, and inborn tendency interferes with healthy vigor, and inborn tendency
to disease is fostered. The colt may have had a gallon of milk daily until he necessarily "fills the eye," but the promise he seems to afford of size,
power and stamina are not always realized. Many ower and stamina are not always realized. Many
oung bulls of crack breeds, when early forced, how to advantage, but turn out shy breederse, or roduce puny, stunted, delicate calves. Fat rams
are notoriously disapointing in many ways, and are notoriously disappointing in many ways, and
often beget weakly anamic lambs. Mr. Robiuson, Kelso, in an admirable paper on joint diseases Metropolitan Veterinary Medical Associa-
tion, recogizes this ir creasing caune of
wealn weakness and loss. $H e$ wisely says. "It
is not, however, entirely throngh the
is and medium of the breeding and pregnant ani.
mal that faulty dietary seems to operate in the production of defective and ill-elaborated tissue formation in the young. There seems influences are imparted to our male stock
inder animals by want of a correct appreciation
of the dietetic conditions necessary for the of the dietetic conditions necessary for the
development and maintenance of perfectly healthy animal existence."
To remedy these evils, young stock,
whether of aristocratic or plebeian descent, should be reared more naturally, with free space and abundance of exercise, neither on the one hand over-forced, nor on the other
starved or stunted. Male animals, if expecstarved or stunted. Male animals, if expechave their food properly regulated ; should not, as is too common with bulls, be kept
closely tied up, but be daily led out. The losely tied up, but be daily led out. The
American system of stud paddocks ensures more merican system of stud paddocks ensures more
effective service, and the production of sounder and more vigorous offspring.
In purchasing sheep it is judicious to select those that have been fed on soil inferior to that for which
hey are designed; and the best symptoms of a
 he skin at the brisket, whiteness and evenness of
the teeth, firmness of the wool, sweetness of the teeth, firmness of $t$
breath and coolness of feet.
The steamer from Summerside, P. E. I., brought lan unussally large cargo to Point du Chene last
week. There were four car loads of sheep en route we Quebec, for shipment to England, and nearly a thousand barrels of oysters for various markets. Farm horses should, whenever the day is warm
enough to bring out sweat, be allowed to wallow and scratch their sides and backs on the ground. They will get much more comfort in this way than you can give them with the curry-comb. Many orelder. It is the greatest nonsense one can prac-
tice. Clean, sweet hay and grain, and a clean, tice. Clean, steet hay and grain, and a clean,
soft bed to sleep on, with a proper place to wallow, soft bed to sleep on, with a proper place to wallow,
will insure a fine coat of hair and a strong, muscular body. Nothing else can. As a general rule, those not tutored in the management of horses accordingly.-Ex.
In all parts of the United States tuberculosis is steadily on the increase among our cattle, and especialy and angease, especially the so-called black-
of leg and spleenic appoplexy have prevailed among young cattle. In various parts of Texas, Nebraska, Kansas, wissouncoatic ophthalmia. Among sheep the prevailing diseases have been foot-rot and scab, Some restrictive laws are wanting to
trade and traffic in such diseased sheep. There have been several instances of severe
losses among cattle in the State of Illinois, from the Texan cattle fever, occasioned by the trans-
portation of cattle from the Gulf States, in defiance of the laws forbidding such transportation between of the laws forbidding such transport
the months of March and October.
On one point we may settle with a certainty of
being right:-We must begin now to feed well. being right:- We must begin now to feed well.
No matter what the cost is, cattle must be well No matter what the cost is, cattle must be well
fed from this tine to midwinter, or there will be lod from the very worst policy is to permit them to
loss.
The fall off now. If there is to be scant feeding let it
be as late as possible.-Pres. Elmira Farmers'
Club.

## The Guelph Exhibition.

This exhibition taking place at the same time as
the Industrial Exhibition at Toronto, was not near the Industrial Exhibition at Toronto, was not near
as good as it otherwise would have been. Notas good as it otherwise would have been. Not-
withstanding this, the display was really remarkwithstanding this, the display was really remark able. In the root, vegetable and grain depart the vegetables were much finer, and in much betthe vegetables were much iner, and
ter order, and the grain shown by farmers was highly commendable. The agricultural imple ments were about as numerous, although there was no fine machinery hall or machinery except the implements. In quality these were about on a par with Toronto.
The horses and stock were good, but on the whole we think the stock at Toronto was the best in quality, although many of the animals at Guelph we he prizes awarded there.
many of the prizes awarded there.
The ladies' work at Guelph was highly deservin The ladies' work at Guelph was highly deserving
of awards at any exhibition. The dairy products, of awards at any exhibition. The dairy products,
fruit and flowers appeared to us to be quite as creditable as those shown at Toronto.
Many of the farmers here are highly indignant at the directors of the Industrial Exhibition in claiming the week this exhibition has had for its annual display, as they feel it must injure their exhibition. They think that Toronto wants to monopolize too much.

## Lucky Laziness,

or an accidental cure of a kicking horse. Last month, when walking along Front Street, Loronto, we noticed a person driving a horse, having its harness on and hitched to the shafts of a buggy. The weight of the shafts was supported by a rope from the crupper-strap to the centre of the hind bar of the shafts. The boy driving the

horse was pulling the shafts from one side to the other. The horse would switch its tail over the rope, but would not attempt to kick. The shafts were attached to the horse carrying them, to replace old ones that the horse had broken by kicking a few hours previous. An attendant on the side-walk informed us that this horse, which was a fine looking animal, belonged to a Mr. Mathieson, recently the Bursar of the Central Prison. The horse had a bad habit of kicking, and, as you may well imagine, he kicked when first hitched in the man ner above described; he had three good spells of kicking, but could dick when we saw it. querea, as it wown bect
This harness may be turned to useful account by those who have kicking horses. and how he might tire himself out without harm, and thus be conquered.

A cow giving milk requires about 80 pounds of bone material in a year. Thus a herd of 25 cows
will carry off front pastures and barns a ton of bone material each year,

## The Ashland Bag Holder.

 This is another Yankee patent arrangement, and This is another Yankee patent arrangement, and it, we are much inclined to the opinion that most good farmers will soon have one. It consists of ways, so as tot metal strip with adjustable sinding prongs to hold the bag in position. At the end of the metal strip or belt is a hook, which fits into
screw eyes which are elevated or lowered so as to stand at the exact height of the bag. The bag io held open at its mouth to receive the contents. It can easily be attached to a post or set on wheels, and will be handy in the barn. The cost, only $\$ 1.50$, puts it in reach of every one. One enterprising threshing machine manufacturer has
received the right to send one with every threshing machine he sends out By its use the service of a man or boy is dispensed with. This is a kin of Yankee invention we like to give onr readers of Yankee in
notice about.

## The Northerin Exhibition

We regret that we cannot give reports of the We regret that we cannot give reports out the
many excellent exhibitions held throughout many excellent cannot, however, omit some brief
country. We cannoter notice of the Northern Exhibition, held at Walkerton the week of Sept. 26. This exhibition bids fair to be a successful rival of some fairs that hav been longer established. The exhibition is said to have been first class of sheep; Lincolns, Leices-
ters, Cotswolds and Southdowns were well repreters, Cotswolds and Southdowns were well repre
sented Of agricultural implements, that now sented. Of agricultural implements, that now
form so interesting a feature of all our shows, there was a large assortment from many of our principal manufacturers. Of the more immediate product of the soil, grain, roots, \&c., there were excellent samples. In the fruit department the plums were nost admired. Of this fruit the Northern Fair representing the old Huron District, showed specimens the largest and finest flavored of their
kind. From the President's address we take a brie ail it must have fair play; and we recommend for oil it must have fair play; and we recommend for
the falling off in the yield of spring wheat to sow more clover; avail yourself of the opportunity aftorded by these exhibitions of obtaining good siring stock of all the useful breeds; grow roots, and you will not long have to complain of short is, subscribe for the Farmer's Advocate; you will find it a first-class paper, full of uscmen." mation and a great help to amateur stockmen.

## Hog Cholera

From the investigation now in progress in the From the investigation now in progress ind ite states with regard to the hog cholera extract the following. The Government report, dated June 10th, 1879, says:-
"The number of hogs given as being produced in
about one-half of all the counties of the United bout one-half of all the counties of the United States and Territories was 19,932, ,14. Of this
number, $2,727,278$ were affected by disease, and of number, $2,727,278$ were affected by disease, and of
those a ffected over one-half died, entailing a loss
on the producer or farmer of $\$ 10,451,071$. If other on the producer or farmer of $\$ 10,4151,071$. If other
counties not reporting lost as heavily-and we counties not reporting lost as heavily - and we
have no reason to doubt but they did-the losses have no reason alone for that year, would amount to
among hogs aly
over twenty millions of dollars." over twenty millions of dollars.
Farmers of Canada, can we be too careful in preventing the spraad of this disease among our stock! We have had the disease Sho can tell where disease will stop, if ever? The atmosphere would favor its spread at any time. Prevention is better than cure.

Novel Horse Collar.
A novel collar was exhibited at the principal A novel collar was exhibited at the principal exhibitions this year by Messrs. Fisher \& Watson,
of Kincardine. This collar is made of a steel plate, prepared in the desired shape to fit the neck of the horse. The collar is then polished. It opens at either the bottom or top. Different sizes of steel plate are inserted at either top or bottom to suit the size of neek; also different sizes of collars are made. The traces are attached direct to the eollar, thus dispensing with the use of the
hames. The steel collar and harness weigh from hames. The steel collar and harness weigh from nine to the pommon collar and harness is from twelve to twenty pounds. The best collars we

have ever used for ease to the horse are the hardest. A soft collar always galls the neck of a horse more than a hard one. One of these collars was put on one of che stec-car horses in this the horse was rather heavy animal, with a sore oulder, and did not work easily in his own collar He endured the hard work of that week, and the shoulder improved. We give the accompanying cut, which shows this new collar ready for the attachment of the traces. The collar is put on th neek by unfastening at the bottom; it is then abou as handy to put on as a pair of hames. This appeared to us le lot to be seen at the Exhi and useful novel

Let our rule, as Canadian farmers be-make the hest meat, fruit, wheat-overything, and mak ans of eorned beef are packed annually in the tate of Maine, and sold in every part of tho world. By such measn Americans gather in their lollars-they make the most of every product.

Winter Management of Sheep.
Sheep should have better care in early winter than farmers are in the habit of bestowing. Wintering sheep to make them live only, is not attended with profit, let prices rule high or low. than any other farm stock, for they are often the very last taken from the pastures.
If sheep go into winter quarters in a declining state, the result is a demand for extra feed and
care during the winter, and a light clip of wool in care during the win a a thiving wool grows the spring. When a sheep is thriving, wool grow checked. If kept fat, large fleece; if poor, a light one. Sheep should have a little grain every day from the time grass begins to fail in the fall until it has a good start in the spring. I would rather my sheep would have a gill of corn or oats per day from the middle of November till April, than a pint a day from January till June. There should be one object constantly before the mind of the thriving condition.
Shelter is one of
heep successfully. Farmers often condemn barns and sheds as unhealthy places for sheep, when it is a want of ventilation that does the injury. It is no argument against housing because some people keep them so poorly ventilated as to injure their health. Nor is it an argument against shelter for
stock, because it is improperly used. I am no believer in having sheep shut up too closely ; I like Warm comfortable quarters for them at night, but
they should not remain there all day. They should go out, get some exercise, and have some sun-shine after a storm. We ought to kn . W .
appreciate its beneficial effects on animals.
Too large a number of sheep should not be
wintered
together. I
I enough for one lot; by no means let there be more than one hundred. There is much more
danger of disease in large flocks than in small ones. The division should be made so as to put sheep of about the same strength together. Lambs
should be by themselves, with a few old tame should be by themselves, with a few old tame
sheep to keep them tame. All large and strong sheep to keep them tame. All arge and strest wethers should be by themselves, also all breeding ewes. By this system of division all have an equal chance, which is impossible where large numbers of all ages and conditions run together.
FFeding sheep cannot be to carefully and scien-
tifically done. It should lee attended to, as near as possible, at the same time every day. Sheep, above all other animals, should have a variety of
ood. They are naturally very particular about food. They are naturally very particular about
their diet, are fond of dainty bits, and refuse everything not clean will eat musty hay or grain, or hungry before they will eat musty
that which has been trod under foot.
wo other animals saould be tolerated in a yard with sheep, for it will only r sult in vexation and
loss. $-[\mathrm{Ex}$.

Were it not for the very poor crops in the old world, prices for crops in the new world would rule very low. Farmers should think of this. Suppose that there are large crops in the old world next year and large crops here. Prices for our
crops will bs yery low, hardly paying the cost of production. The production of stock, however, is not likely to be overdone for a long time, if ever.
There may be too much wheat raised, but not too There may be too much whep. The wise farmer,
many fat cattle and shep
therefore, will enlarge his means for the production of beef and mutton, well knowing the foreign demand will continue and gion
for them.-[Rural World.

Canada is the only cattle-raising country in the world free from contagious diseases. All other
countries are more or less affected by it, which necessitates the slaughtering of animals at the port of entry, while, on the othe other hand,
Canadian cattle can be raised for any market and shipped alive. This gives at least an advantage of thirty per cent. in favor of the exportation of Canadian stock ove
can't he so shipped.

## gatiscluamedus.

## The Wealth of our Dominion.

 The wealth of the Dominion is such that it ca the country in timber. The fisheries, and in mines and minerals, great and almost unrivalled as they are, are but a small portion of her wealth. He great resources are in a soil as fertile as any on the globe and as vast in extent as that of her southern neighbor, the United States. In a very suggestive article on the great wheat crop of the Wester States, an American agricultural paper-the Fa tory and Farm-estimates the wheat and cor crops of one State, Mlinois, at nearly one hundre estimated at not less than forty-two million bush els, and worth in the hands of the producer the sum of thirty-seven and one-quarter millions ondollars. It is estimated that the Indiana wheat crop is worth nearly as much as that of Illinois, and that of Michigan as more than twenty-five millions of dollars.
The wheat-growi
The wheat-growing territory of our Dominion is
of greater extent than that of the United States, and, what is of greater importanue, it possesses greater fertility, the produce of the Canadian
North-west being from thirty to forty bushels per North-west being from thirty to forty bushels per
acre, whereas that of the Western States is only from twelve to twenty bushels. Of the Western
States Factory and Farm says: "The fabulous States Factory and Farm says: "The fabulou
stories told of incomprehensible fortunes being
dug from the cold and silver mines of the great dug from the gold and silver mines of the great
silver belt of the West, cannot compare with the sum which the farmer has plowed, reaped and
threshed from the bosom of mother earth; and no more is the gold and silver that is dug from the earth an addition to the wealth or a created sum
than is the return from the harvest gathered by than is the returr,
the husbandman."
The great North-west of Canada, the best whea growing territory on the continent, is yet to give
forth her abundant harvests. The farmer has cul. Torth
tivated sufficient to prove what the country can
produce. The brawny hands of the emigrant farmers from Europe and from Ontario will, we have no doubt, gave hitherto been unknown. Such $\mathrm{i}^{\mathrm{s}}$ the wealth of our Dominion.
In Canada we are happily exempt from losses occasioned by an excessive humidity of climate We can welcome the emigrant fa having a soil and climate favorable to the production in perfection of cereals and other products. If proper measures
be taken, their leaving the old home will be no be taken, their leaving the old home will be no
loss to the Empire - they will here remain loyal loss to the Empire - they will here remain loyal
subjects, and they will add to instead of diminish her power. We hope our Government and tha
of the old Country will unite in aiding the enter prise. Farms can be had in our wide Dominion
for every family in Pritain who thinks that the for every family in britain who thinks that the
accuisition of a new home would be to his advantage.
The Bulletin (Cincinnatti) says: "In the firs place, only the varielies of theat shd place, seed
that find readiest sale. In the second wheat should be selected with as much care as prudent farmer is lik'ly solect his year's seed
corn after this year's experience. With the im proved fans in the country, or 'screens that are ac cessible to every one, there can be no excuse for
sowing a single defective grain of wheat. There
s. is just as little excuse for having smut in wheat,
if soaking in blue-stone before sowing will prevent it; or for having the crop ruined by rust, if sowing
a bushel or a bushel and a half of salt to the acre in the spring will prevent it.

If it pays farmers to raise scrub stock, how much better will it pay them to raise the improved
breeds. Now that we have good crops, when we get the money for them will it not be wise to in-
vest some of it in the choice breeds? It would be vest some of it in the choice breeds? It would be
better in our opinion than loaning it out at interest. Buy thoroughbred males, if you are not able
to byy the females, and grade up your tlocks and
herds.

What English Agricultural Papers Say. The average under the main crop in the United Kingdom, adding the Irish, are as under : Wheat, 3, 048,000; barley, 2,931,000; oats, 3,
987,000 ; potatoes, $1,384,000$. These return show an important decrease in the areas under wheat and oats, and a considerable increase as was to be xpected under barley. A sunless spring and sumner accompanied by excessive rains and low temthe inevitable result. I have, therefore, very little
hesitation in estimating the probable outcome of each of these crops at one-third less than an average yield. This deficiency of grain at 50 cents ions of pornds sterling to the cultivator, nearly ions of por.
$\$ 75,000,000$.
At an equal rate of loss for the partial failure of eans, peas, and
$£ 3,000,000$ ( $\$ 15,000,000$ to add, making an ane ate deficiency equal to a money loss of $\$ 28,000$,oo, on our cereal and pulse crops alone. Taking acre will not compensate growers for the blight that has come upon it. On the $1,384,000$ acres nder this crop the loss cannot be less than $£ 15$,the areas under artificial and natural grasses it will amount
Times.

A Plain Case.-A friend who has thoroughly that his late experiments are the most conclusive of any he has tried yet. He had several grade of the same age. equal number of common steers,
He gave them the same feed, put them into the market at the same time he ound that the lot of Shorthorn grades had ncreased 708 pounds, while the lot of common
steers had increased but 502 pounds on the average. He sold his grades at 33 cents per pound, and he could get but 2t $_{8}^{7}$ cents for the common steers. This is a plain case. Now let any one count the
difference, and he can decide whether he can afford to fritter away his time and feed with common stock, when he can buy Shorthorns, now so cheaply,
to produce grades with. Both lots of cattle were to produce grades with. Both
fair representatives of their class.
Wheat and Oats.-In Iowa an experiment has been tried of sowing wheat and oats together. In
the fall two bushels of wheat mixed with one bushel of oats were sown upon an acre of ground.
The oats grew rapidly, but were of course killed down by frost. They, however, furnished warm covering for the earth, and when the snow fell
mong the thick stalks and leaves they kept it nong lowing away. This covering prevented the winter killing of the wheat, and the rotten oat eaves and stalls afforded a rich top-dressing for
the crop the following spring. The result was an abundant yield of wheat, while land precisely similar alongside of it, and treated in the same nanner with the exce
was utterly worthless
Worth of a Pure Bred Sire.-The gist of the is sufficient, if rightly managed, for a herd of fifty cows. Suppose he costs $\$ 100$, the increased cost
of each calf over and above that of a sire costing $\$ 50$ is simply the interest on $\$ 50$ a a yeare costing per cent. on $\$ 50$ added for deterioration as age
grows on the animal. The calves are certainly worth $\$ 5$ each more than from the ine certaingly
bull hould commend itself to every farmer in favor of good breeding. Yet how many look at it in this
light? Nevertheless, this is the only way in which it can be estimated.
Plastrer a Deodorizer. - An excellent use for
plaster is as a deodorizer for stables.
Sprinkle over the floors liberally. It will absorb the ammonia in the manure and sweeten the air of the
stables, thus making them more healthful and stables, thus making them more healthful, and
improve the quality of the manure. Dry muck and road dust are also good tor the same purpose, but where it is much trouble to procure them plaser is a cheap substitute.
A correspondent of the Country Gentleman says
he has had an experience of more than 25 years in the use of lime, and he finds that when his land is well supplied with alkali (from lime) the clover
and grasses crowd out sorrel and other sour weeds and return him large crops of sweet hay and pas. turage.

## Agriculture.

## Canadian Potatoes for England.

The article headed "Potatoes in England," Nhich we give beneath from the London Daily for pors some shipments from the Mry. There have bee the Old Couutry, and they have paid well. The humid temperature of Britain has a tendency to produce the potato disease from which the drier climate of Canada fortunately makes us almost
wholly exempt. Farmers need not be told that a good potato crop pays better than most other crops, if there be a good demand for the produce The loss from the partial disease of potatoes in England is estinated this year at $\$ 50$ per acre, on A correspondent writing to the London Daily England is so great that in the course of the in three years that country has imported something
like 600,000 tons, representing a total value of nearly $£ 2,600,000$, the weekly consumption of Lon
don alone being equivalent to 5,000 ton country of Europe contributes more or less to th supply, but the largest quantities are imported
from France, and the reports from there are the reverse of encouraging. It is estimated by a very
competent authority that the potato crop will be very bad one, and that the yield will not exceed
$60,000,000$ sacks (three bushels each), while the consumption in France averages about 75,00, 1 ane
bags. It follows, therefore, that if this estimate proves correct, the French will have to import in stad of export. The districts in which the pota.
toes are grown are the Vosges and the country about Cherbourg, and it is in those districts that correspondent in reply says that the larger quan tity of potatoes imported into England is from
Germany. For a few weeks about June, England Germany. For a few weeks about June, England
gets potatoes from Cherbourg; but as soon as they
ripen in England, trade with France ceases, and then large quantities are brought into England from Gerpmany between the months of August an
the following May. According to the board o
trade returns, the imports of potatoes into th trade returns, the imports of potatoes into the
United Kingdom amounted last yean to 8,751174
cwt., against $7,969,136$ cwt. in 1877 and 6031341 cwt., in 1876 . In the first six months of this year
they were only $3,039,823$ cwt., against $6,311,993$ in 1788, and $2,906,587$ cwt. in in is ift. The countrie
whence England received those supplies are no whence Eng
designated.

Application of Lime to the Plowed Clover Sod.
The $N_{0} Y$. Times in an article on fall fallowing, hawing referred to the chemical aetion of lime as-a
fertilizer, points out the advantages of applying it to the plowed clover sod
It might be pertinently mentioned here that
these facts go to prove the wisdom of the practice, popular in some well-farmed districte, of applying
lime to the plowed clover-sod in proparation for lime to the plowed clover-sod in proparation for
the corn. The decomposition of the clover stems leaves, and roots, is hastened by the lime, and an
abundance of plant-food is furnished by the nitrification which goes on. It is interesting to fine an
instance of the propriety and scientific truth of an old-established custom thus proved and justified by later discoveries, brought to light ln the
chmist's laboratory and in the agricultural experi.
ment stations. It is an example of well-founded principle, that known successful practical opera
tions in the field, although founded only upon ob servation, are really as truly scientific as though
they had originated from the chemist's investiga tions and the experiments of a professor. Correct practice,
science.

> Destruction of Weevil.-The leaves of the
elder strewed among grain will effectually preserve it from the ravages of the weevil; the juice wil also kill maggots. The leaves scattered over
cucumbers, cabbages, and other plants sulject to

## Harvesting the Root Crop.

 Of the several varieties of roots grown on tharm for winter feeding there is none that bear s reat an intensity of cold as the turnip. In Eng. and they are fed through the whole winter in the Gelds where they have grown; the degree of cold oes not injure them. But here we have much eener cold, more intense frost, so that we need $t$ tatoes are generally stored in pits by this date Mangolds should be taken up and stored this month; so should beets and carrots. Turnips during this month make considerable growth if the weather be at all propitious. They attain to reater size in cold weather, where an exposure to orld says :
Varieties which are hard to pull can readily b
ifted by running a subsoil plow with care. rathering mangolds that are to be topped in the eld some system should be observed by arranging heaps, roots in and tops outi. This precaution plan in gathering mangolds when the tops are not
wisted off as they are pulled, is to lay them in ows, tops in and roots out, four or more rows be
ing put in one. If two hands are working to ether, which is the most expeditions way, mak ween them, the roots being on the inside. The topper in this case, with a large heavy knife, cuts
of the leaves to his right and left as he goes, bein careful not to cut the root itself, as mangolds if cut Roots designed for market are best left awhile ntil the earth on them is dry, that it may fall of sumption receive advantage from it, asit prevents oring place. Let the heaps be three or four feet igned to feed after spring opens can be preserved a pit; one dug three or four feet in depth in ing water, is preferable. Two modes of covering ectly on the roots, the other where they are first placing the earth. Whichever course is pursued, is advised to use at first barely enough covering
to suffice, adding more asthe cold weather increase

In an article designed to combat the spirit o any soulless and heartless in these days, the N. readers. Take a part of each day, week, and year 0 remember that you, too, are a man and not ere money-maker. farm more language Broaden your mind by friction with men. Go to will cost money Dress, eat and furnish your ind cost money. Dress, eat and furnish your
house more simply; your sons and daughters will be better men and women for such simplicity Sequeath to them high no struggle to give your
in lieu of money. Do not sum children a fortune, or to push them into a higher ircle of society than your own. Give them the

How many farmers know how many pounds
ork they have made from a bushel of corn? ew. How many farmers can tell what the cos of wheat, corn, oats or other crops? We venture to say there is not one in ten that can tell to a
nicety. This should not be. Farmers should conuct their farming operations on purely busines principles, keep an account of all the farm doings
dollars and cents, like a merchant or other bug dollars and cents, like a merchant or other bus ance, and carry the balance, if any, to capital stock very farmer should know ho stands with th world-his world i. e., his farm-at at
nent of each year.-Farm Journal.
The Superintendent of Agriculture, Vermont
sys that, in five years after he fixed his stables a as to save his liguid manure, he had doubled the culture to-day is this waste of the lisuid excre culture to-day is this waste of the liquid excre-
ment of cattle.

SORRRL in Pastures.-A correspondent wishes
be informed of the best mode of getting rid o orrel in pasture land. We have, in a forme number, referred to the extermination of sorrel.
Of getting rid of it in pasture land, the following
from the antipodes is a simple, inexpensive method If the antipodes is a simple, inexpensive method If you wish to avoid ploaghing up and laying
down the pasture afresh, sow white clover upon it but at once stock it heavily with sheep for a weel or two, until the clover is brairding, when the
stock should, of course, be removed for a time. It lock ere of course, be removed for a time. attended with useful results.
Perhaps some of our Canadians might try it and
report on it.
The killing of ab
The killing of sheep by useless curs, the prop-
erty of men who haven't industry enough to raise money to buy a lamb, nor the sense to raise one il our country everchanges. We saw it reported a
few days ago that eighty head had been so kille few days ago that eitghty heod had boen sor killed
on one farm in a single night. If they had been on one farm in a single night. If they had been
stolen by thieving bipeds instead of killed by a gang of murderous canines, the whole country
would have been aroused to hunt them down, but the dear dogs get off scot free. We are indisposed o recommend to mercy any dog that will kill t sight.-Journal of Agriculture

ARTICHOKES.-A correspondent of an agricul with the artichoke. writing about his experienc of the opinion that he can eradicate five crops of Canada thistles more easily than one of artichoke at them once into the ground, and rest assure
they will eventually become the oldest inhabitant. He recommends them to be grown by every dys eptic individnal, as 20 feet square of them wil give him all the work he wants in trying to root
hem out. Farmers should avoid them as they would the plague.
A sheep-grower says :- "It is folly to keep old
heep. They should be turned off to the butcher in their prime. It does not take half the amount rder to put them in the condition for slaughter the whole structure must be rebuilt. Four sets of her to five years, and this is the age when, with a
hil ittle extra care, she will round up to a full carcass. Exceptions may be made when the breed is scarce,
and the blood is more desirable than anything and
else.
A correspondent writes the Germantown Telemay be saved from borers pyy removing the traes
around the buts, and applying coal-dust around round the buts, and applying coal-dust around
hem. I have tried it for two years. A neigbor tried it before I did. Boiling yearsill also save a
peach tree. A neighbor had three with tha yel peach tree. A neighbor had three with the yelows in a dying condition, who applied lye around
two of them, which were restored; the other died.
There is trouble about American smoked and
orned meats, and also with canned meats, in Switzerland; so says the United States Consul Stare. In a communication to the Department of State he says that part of a shipment of meat, Havre from the United States, was condemned, For a most valuable remedy for heaves, which is pound of resin, one pint of ginger, half a pound of mustard, one pint of unslak rime, one pound ounces of cream tartar. Mix thoroughly and divide into thirty powders, and give one every
morning in their feed before watering.-[Conn. Farmer.
Oxen as beasts of draft are in some places better from horses. They require different treatment
from horses, and especially in the spring, when warm weather opens. Sufficient time should be Siven for them to feed, and being slow of motion
they should be driven accordingly. In wor king small farms oxen will be found more economical
than horses, and a paik may be useful on a large farn.
A gooseberry plant makes almost double growth
if set out in the fall. ${ }^{\text {The growth in spring is }}$ very early; but if not planted till spring its grow.

How to Dissolve Bones for Fertilizing Purposes.
R. T." wishes to know the best method of dissolving bones for fertilizing purposes. Some time since the information now asked for was given in the Advocate. As "R. T." is a new subscriber, and has not had the opportunity of seeing that number, we reprint from the N. Y. World the following explicit article on the subject:-
To dissolve bones in the shortest possible time, phare acid (vitriol oil). The usual rule is to mix with the crushed bones from one-fourth to onehalf their weight of sulphuric acid. When quick action is desired the last-mentioned amount should be employed. The acid may be applied as follows:
Place a layer of bones eight or ten inches deep in Place a layer of bottom of a barrel or tub (a petroleum barre) serves the purpose well), and wet them thoroughly
with water; then pour acid cautiously upon them with water; then pour acid cautiously upon them and mixing the mass with a wooden shovel; follow with another layer, repeating the process until the
tub or barrel is full; allow it to stand ten or twelve hours; shovel out into a heap and mix with ground plaster, wood ashes, or similar material. Never as is often done previous to applying to the bones, pour the acid into twice its bulk of water, stirring all the time. This having been done the bones nay be placed on a heap or ashes, the acia poured
on, and more ashes piled on to cover the mass, which, after a week or ten days, may be thorough-
ly mixed together. The objection to the use of y mixed together. The objection to the use o
sulphuric acid by other than an expert is its dansulphuric acia by ouner than Great care should be
gerous corrosive qualies. exercised to avoid spilling or spattering it on the
flesh or clothes. Bones may be sufficiently disintegrated in six months' time to serve as an efficient
fertilizer by crushing them and mixing in a heating fertilizer by crushing them and mixing in a heating
compost of barn-yard manure and ashes. The mass must be kept moist, either with liquid manure or water, and a thin covering of fresh earth or plaster
should be spread over the pile to prevent the escape of ammonia. This compost is best when made in the proportions of equal parts of bone and
ashes with three times the bulk of both in manure. ashes with three times the bulk of both in manure,
When there is only a small quantity of bones to be disintegrated it is easily done by burning 2 few a time in the kitchen stove or range, saving, o a time in the kitchen stove or
course, both bones and ashes.

## Barnyard Manure.

The London Agricultural Gazette says: "The farmer regards dung as by far the most important
fertilizer which cau be obtained. In his eyes it occupies a position much higher than that of nit rate of soda, superphosphate of lime, or any othe substance. In this opinion the best scientific culti-
vators entirely concur, and it is delightful to find a point of great importance on which the learned chemist, the practical farmer, and the illiterate abourer are completely at one. No doubt eac
would approach his conclusion from far different cousiderations. The chenist sees in farmyard ung a happy combination of constituents, so hended as to supply the losses accruing from crop
ping. The farmer and his man see in the same substance an unfailing help to a growing crop. P'enty of good dung, say they, is the stuft to put under may be good for special purposes, put good old
fashioned muck will do for every purpose. It is insitself a muck will do for eo foory purpose. It ish is gradually made available for growing plants during the entire
period of their existence. It is the natural means of restoring fertility, because, in the economy of nature, the forms of plants and animals are afte with it, and then to assume new forms. Farm yard manure is quite as much esteemed upon the continent as here, although the study or agricul tural chemistry is more generally followed and
more highly esteemed by farmers than with us."

Professor Stewart, of Cornell University, has
fund, by actual experiment, that one-yuarter of au acre well set in clover is sutficient to feed one cov 1sid days, if cut and fed her, while if allowed to run on it would not probably last two weeks.
Another alvantage in the care of milch cows is that they give more milk from the same amount of
food, it being found that the walking to and from

## Improved Sced.

The Royal Agricultural Society of England offers wo prizes $£ 25$ and $\mathfrak{£ 1 0}$ each for distinctly new yield of grain and straw per acre with improved form and size, smooth and thin skin, full and white kernel, and high specific gravity in the seed, and
with bright, firm, and stiff straw. One sack must be delivered to the society by each competitor, together with a sample bundle of straw inside of a month. A portion of each sample will be kept
for comparison, and the remainder, divided into equal portions, will be cultivated next year in four localities differing in respect of soil and climate.
The prizes will be awarded for the best varieties of The prizes will be awarded for the best varieties of auspices, if in the opinion of the judges they possess qualities which entitle them to distinction. The produce of the experimental crop of 1880 will first to the competitors who submitted the seed. The society also offers prizes of $£ 25$ and $£ 10$ for
newer and improved varieties of wheat upon the ewer and improved varieties of wheat upon the that the sample sacks shall be delivered by October, 1882, thus giving time for the develop

## Saving Manure.

The ordinary compost pile is composed of any and all waste material that is made on the farm, as
ld sod, muck, leaves, straw, ashes, and animal manures. To be economical' it must abound in greatly depend on the quantity of stable manure, night-soil, and other sources of ammonia. Sub scape of ammonia by absorbing or fixing it. Be n making the compost heaps before cold to winter. Then, putrefaction fairly started, there will be little trouble, if the heap is large enough, and
fresh material is added from time to time, of continuing the fermentation all winter. Having seleced the spot most convenient for making the heap, begin with a foot or more of muck, clay, or other
absorbent, to which add any vegetable refuse ; folow this with a layer of barnyard manure-two o three loads of animal droppings and urine to one ypsum to every four loads of material-forms an excellent compost for general farming purposes.

Climate of the Canadian North-West. The following remarks of the Prairie Farmer
the climate of the North-west, is of interest to on the climate
It is a great mistake to suppose that the further limate necessarily is There more erand exent th o this rule. Climate not ouly depends on latitude heric cure, but upon the great ocean and atmos endant warm air currents modify the climate of the British Isles and of northwestern Europe, so cean modify and soften the climate of this great Pacific ocean, striking the coast in the vicinity o Puget Sound, and Howing over the Rocky moun tains where they are lowest, modities the climat up into the British Provinces.

An Anerican journalist writes:-"At a neigh came rushing in, saying that all the cows had eater of the green clover brought up (for soiling), and
that they were much bloated. My aulvice was hat they were mued the cows to be put into the
asked; and I directed
yard, which was only accomplished with difficulty yard, which was only accomplished with difficulty,
and I found ten or twelve cows of the best Swiss reed in this same condition: drink ing water after
eating clover. My water bath was at once resorted to. Everybody, including the lady-guests, went to emptied it, a bucket at a time, over the backs of the cows, put some garlic into their throats. and in that is available on every farm. It was published In several German agricultural papers, and I had
the satisfaction of hearing that wherever it had been resorted to in time, it had cured the afllicted
animals."

## GLEANINGS.

If you have a cold and heavy field which you intend to sow or plant next spring, by all means A soggy and nearly worthless hill-slope has besult of the application of lime. So says the report of the Connecticut Experiment Station.
Never plant evergreens on the sunny side of
your house. If you want shade on that side plant deciduous. trees. Norway spruce planted from six to eight feet apart makes a good wind-break for an

A correspondent of the Country Gentleman says of the farmers of the State of New York: "Within a year past fully one-eighth of the farmers of
the State have failed - some say one-third, but this is too high an estimate, I think.
The New York Tribune is anxious for a greater
home demand for cheese. It says: "If the cheese producers would take half the pains to suit American tasturs that they do to push their wares abroad the time consumption would be doubled in hal foreign trade.'
There is room enough for a very great increase of the acreage of grain cultivation. Of the State of Illinois fully one million square miles yet re-
main untouched by the plow. Illinois is a great corn-growing State, but far inferior to a more norlittle grown in Illinois, and that little is a prey to rought and chinch bugs.
The great error in wheat husbandry consists in ween plowing for wheat and seeding to admit of hat packing of the soil and that perliminary de mposition of cruce vegetable mater which, on most soils,
At the annual meeting of the Fruit Growers emphasized the necessity of encouraging the growth hought the public should be impressed with the inmense benefits which had accrued to the country from the increased developmen o
in Canada during the past few years.
Oat straw is, as a rule, superior in feeding value larger proportion of digestible, fat-forming and heat-producing principles. Barley straw contains ore nitrogenous matter than either wheat or oat ften harvested, in contains but a very small proportion of sugar, more than nine-tenths of the fibre Gool or Bad.-"I want mure of your butter," whose product aiways came to his counter in splendid style, "for I can hardly get enough to supply my customers. No, sir, said he the next day fub, with not a very clean cloth over the top of it and in a rather soft condition; "no, sir, butter is very plenty and I have a
And he had, of that sort.
Attend to the accumulation of munure by every possible means; let it be gathered as it is made,
and stored in good-sized heaps, well covered to preserve its most valuable components from being ngs, parings of banks, ditches, and the accuma lation of rich earth on the headlands to the compost hesps, mixing them with fresh lime, sea
it-sand, making them up into pyramidal heaps pit-sand, making the
to throw off the rain.
Ticks.-Cattle grazing at the outskirts of woods, rong brushes and shrubbery, and near old hedyes,
re liable to be troubled with ticks. Brushing the attle over once a week with a mixture of one part of kerosene and two parts of lard oil, will Vhen ticks are found an cattle in considerable numbers, they should not be removed by force because in that case the head of the tick will re when in ledded in the hide of the animal, and siderable irritation and inflammation of the skin. By applying a light coat of lard oil, or a little
benzine, by means of a brush, to the body of the go their hold on the hide.-Nat. Live Stock Jour go the
nal.
(b)arden amd (0) Chatd.

## October-Work that Must be Done.

vegetable garden.
Earth up celery, but not when wet with dew.
Put in trenches a foot wide and as deep as the Put in trenches a foot wide and as deep as the when there is danger of hard freezing
Cut parsley well back-to force a new growth-
and transplant enough for winter use into frames.
As frosty nights approach, cover tomatoesenough for cars comes sharp enough to kill the vines, gather all of sufficient size and lay them in a warm sunny place, covering at night. They mat
for weeks after the vines are gone.
Dig root crops; throw in heaps and cover with a
few inches of earth to keep out slight frosts. When the crop is removed, dig the ground over and leave it rough and unraked, that the frosts
may mellow it as well as kill the eggs of insects and the seed of weeds.
Rhubarb and asparagus beds are benefited by covering four to
Cabbages keep best by inverting the heads, setCabbages keep
ting close togett
inches of earth.
Finish harvesting root crops. If there is not
Fing orther room in the cellar put them in a pit.
Late turnips, parsnips and horse radish should
be last cared for, as freezing and thawing injure be last cared for, as freezing and thawing injure
them little. Those not needed before spring may be left in the ground with slight protection.
Use every spare moment in digging the ground
and manaring reut arder
Transplant currants and gooseberries, and prune the old wood. Cuttings succeed much better when planted in the fall. and the soil pressed firmly against the lower ends
If raspberries were not pruned last month, see
to them now. Last year's wood is now worthless, to them now. Last year
either for growth or fruit.

Prune blackberries, and plant new vines.
Prune blackberries, and plant new vines.
Transplanting may continue if the season re
mains favorable.
As soon as the leaves fall, prune grape vines; lay
down tender varieties and cover with earth.
Bend down the tender sorts of raspberries and
cover the cones with earth.
Strawberry beds should be covered with straw,
leaves or other material when the ground freezes.
flower garden.
Spring flowering bulbs, such as hyacinths, tu lips, crocus, iris, narcissns, jonquils, scilla, snow-
drops, and all varieties of hardy tilies, may now drops, and
be planted.
Pconies may be set out.
The seed of hardy annuals such as larkspur, gilia, candytuft, alyssum and mignonette, may
sown now if you wish early summer flowers.
Gladioli, tigridia and Amaryllis formossissima should be taken up on any fine day before frost.
Dry them in the sun and store for the winter in a prace free from frost and damp.
As soon as the frost touches the tops of dahlias,
caladiums or cannas, take them up, dry in the sun caladiums or carn and
and put in a dry cellar.
If tuberoses are in bloom, pot the best of them and bring into the house to finish flowering. The bulbs should be dried in the sun
This is the best period in autumn for planting This is the best period
evergreens and hardy shrubs.
Tender roses - of the China, Tea and Bourbon class-should be lifted trom the open ground and
potted for blooming in the late winter or carly potted
spring.
Zonale pelargoniums, lemon verbenas and similar plants, desirable to be savecr, should be taken
up as early as possible, potted and moderately up as early as possible, potted and moderate
pruned back. When the planting on should have a thorough
every part of the garden
cleaning. All annual flowers will have passed
their beauty, therefore cut off the decayed flower-
stem and trim off the borders.
Dig all vacant ground from one to two feet deep. Grading, making new borders, lawns and walks,
aay be done in the fine weather of this month. The bulb beds should be well covered with lit Storing tender bulbs and protecting plants
pat all in winter quarters.
Cover herbaceous perennials with littery maeaves for compost ; clear up rubbish, and put ases and movable trellises under cover.
See that all newly planted trees are well staked
and protected from the winter wind. Give the roots a good mulching of leaves or litter; it is a great beneit to them. Liberal mulching rareily in
iures anything, and is generally very beneficial.
house plants.

Hyacinths, tulips, crocus, narcissus, etc., inAmaryllis and Cape bulbs that are now starting to grow should be re-potted.
Bring in all house plants before the frost injures
them; set in a room without a fire and give abundthem; sef air every mild day.
Callas may now be divided and re-potted.
Put in cuttings of fuchsias, heliotropes, verbenas and carnations.
Daphnes, camellias, Chinese primroses, and any other greenhouse plants that require larger pots,
should be shifted, but only if the pots are full of
Be sure and keep potted bulbs in a dark cool place until well rooted.
Do not keep plants too warm-sun heat is gen-

## Planting Fruit Orchards.

The ultimate success of fruit orchards depends
upon the judicious selection of soil, situation, trees, upon the judicious selection of soil, situation, trees,
and their proper arrangement and management. Pomologists very generally agree that fall is the stocks. Many of them go farther and advise voids all danger from loss in heeling-in and gives the trees time to throw out and mature new rootlets before the severe summer heat and irough lanting. Another argument advanced in favor of all planting is the leisure time occurring at this sason, which naturally induces more extended orchards with work better done
rush and worry of the spring season.
The best site for an orchard varies with locali-
the neighborhood the knowledge required. An eastern nd southern exposure on low ground is to be frosts prevail. If high winds from the west and north are to be guarded hosen where some natural that a situation be chosen where hill, will break their force. If no such protection already exists, it will be wise to set out, at the same rcee, which will form a protection by the time the fruit trees have $\boldsymbol{q}_{7}$ 品,
Selecting the varieties for a fruit orchard is a nost impore to special purpose for which the fruit is intended. Low, stout trees, other things being equal, are prexlath this preference be observed in elecated and exposed positions.
elt
The square form, in rows the same distance apart and an equal space between each tree, is the ussual plan practised in setting comonly allowed
Twenty-five feet is the distance common Tor the average apple orchard. A good authority recommends thirty feet in all directions as none
too many for standard trees. These distances are of necessity, only approximate, there being a grea of necessity, only approximate, and varieties of th
difference between the sizes and same fruit, and also in their habits of growth.
The season previous to planting the soil should
be at least twice plowed and enriched with suitable composts. When this has been done planting a
corchard is a simple matter, holes being dug dee
and wide enough to admit the roots. Where the
soil has not been pmon soil has not been previously prepared planting
requires considerable labor. especially if there are requires con siderable elabor. especially if there are
any defects in the soil, which ought to be remedied at this time by the aid of composts. Dig large post, composed, if the soil is to good bed of compost, composed, if, te. to ronder it more porous; and, if too light, of clay, stiff loam and ashes, to
render it more retentive. Lime should form a part of these composts, especially for apple and
pear trees. Half a peonk of lime mixed with the pear trees. Half a perk of lime mixed with th
bed of each tree, in soil not naturally calcarous hed of each tree, in soil not naturaly calcaroris
has becommended. In soil anapted to fruit
culture if in a good state of tilth there culture, if in a good state of tilth, there is no
necessity for either large holes or compost. The necessist
compost having been laid and covered with a layer of pusverized soil set the tree in the hole, carefully
adjusting the roots, and fill in with fine earth adjusting the roots, and fill in with fine earth,
which should be firmly trodden down around the tree. Where the trees are larger or in exposed positions one or two stakes should be placed with
Mulching is always advised ; it preMalching is always advised; it pre-
vents the moisture of the soil from evaperating, and maintains a uniformity of heat. A deep
mulching is required for trees planted in the fall mulching is required for trees planted in the fall
to prevent the frost from penetrating to the roots to prevent the frost from penetrating to
and heaving the tree out of the ground.

Growing the Apple in Sod. From a paper read at a Michigan Hortioultural
Society by Mr. Goshorn, we give the following extract: No man can claim to be a good grower of the pple, or is intelligent ons this fruit in sod ; I mean to grow it in a commercial point of view. There is a way in which fruit of this kind can be grown den or lawn, where the grass is a part of the object in view ; but where the fruit is the prime and only object, the soil must be cultivated. In all cases, where trees, plants and vines must be grown in
sod, the grass should be cut often, and not removed rom the ground, but be allowed to lay where
it falls, and there to decay. Under this system it falls, and there to decay. Under this sys.
the trees have an equal chance with the grass. the trees have an equal chance with the grass.
The largest size possible to be obtained can unmistakably be only grown by thoroughly cultivat-
ing the soil. When the tree is yet young, and not ing the soil. When the tree is yet young, and not of bearing age, there is at least three times more
growth in a thoroughly cultivated soil than in sod. growth in a then the tree becomes of a bearing age, the
And when one in cultivated the simple reason that the larger the one in soder capacity. The growth of the tree,
tree has more or its increasing capacity for bearing, is no less im portant to the market fruit grower than the value
of the fruit itself. It would be about as wise to plant corn in sod, with the view to grow both cor and hay together, as to expect good growth for
tree in sod; or to immediately sced down the tree in sod; or to immediately sced down the
ground after planting the corn, and expect a good crop.
Another wrong practice in the management of the apple, is to seed down the orchard after it get
into bearing. An apple tree under which grass is sown when of a bearing age and size, would pro
duce like results in comparison to one that had duce like results in
been well cultivated.
been well cultivated.
Another inportant matter in the culture of the
apple is to fit the tree so as to winter well. The apple is to fit the tree so as to winter well.
tree in sod does not get as much vitality during tree in sod does not get as much cultivated. In
the growing season as the one well cult case of a dry summer, sod will dry out the ground
so that there is little moisture left for the tree to so that there is little moiss a store-house of mois-
winter on. A tree requires winter on. A tree requires a store-house
ture to winter on ; and unless this is provided for by either cultivating the ground, or by an abun-
dance of fall rains, it is exposed to great injury by a dry, cold winter. Whare shall we pursue? My a dry, colc warse of culture shall we pursue? My
What con the
own practice in this matter is to commence in the spring by plowing the ground somewhat sha nlti-
with a one-horse plow. After that I use the cnlt vator. Always, after a rain, the ground becomes crusted over, bat it sho moil is dry enough to work. I never work the ground wet. I am careful in this. By stirring the soil often we keep it moist; and this facilitates the growe to keeping the soil ruit. We all times of the growing season. To keep the weeds down is not enough, or in the soil
words, it does not cause sufficient work o keep it in proper condition. Weeds will trouble
as little when we cultivate often enough to keep the ground as loose as it ought to be in order to secure the best growth in both the fruit and wood,


Notios 70 Corksspoxpmyts.-1. Please write on one side
of the paper only. 2. Give full name, Post-Office and Pro i, cice, nat necoessarily for pubblication, but as guarantee of good that course seems desirable. 3. Do not expect anonymoue communications to be noticed. 4. Mark letters "Printers
Manuscript," leave open, and postage will be only le. pe $\$$ ounce.

## Farming in New Brunswick.

Sir,-In New Brunswick the farmer is doing fairly, although all farm produce is low. Wheat some years, has for the past two been raised with most gratifying results. The present season is the best ever known in New Brunswick for wheat farmers will raise from 15 to 25 bushels per acre
This part of the Dominion has been greatly injure by extent This crop learmer thand successful raising of anything else, while farmer cannot raise as many bushels per acre as they can
of wheat; besides much. If wheat continues as good as the present season indicates, farming in New Brunswick will
pay well. We have not as good a climate in some pay well. We have not as good a climate in some
respects as that of Ontario, but in many ways we have an advantage over the Ontario farmer. We
have the marsh mud and other manures in greater quantities, or at least more easily obtained, tha the Western farmer.
It is of very great importance to all farmers to had that attention which it should. I am inclined to think that the success in wheat-raising here is
in part, at least, owing to the frequent change of seed, and also to a careful att
the cleanest and best varieties.
I notice that farmers are cultivating Indian corn wre generally put in the aftermath after haying is over; this is a bad practice, but the use of this
corn will be a substitute, thus leaving the hay land in a better condition for a crop the next year.
B. H., Elgin, Albert Co., New Brunswick.

A corn grower asks: "Does smut in corn caus
the death of cattle that are fed on the fodder, husks and stalks that are left in the field ?"
UThe death of cattle in several instances in the
United States, where corn is a general crop, has been attributed to feoding without restraint on
stalks and husks of smutty corn. There are, however, some who say that smut has never been the real cause
Dawson says he is very certain that smut in corr never killed an animal of any kind, but that the great amount of dry shucks that a hungry animal
will eat is the real cause of death, and not smut A great'many farmers compel their cattle to rely for their subsistence entirely upon what they find full that the mass of dry shucks impedes if not entirely suspends digestion, and no amount of drugs

will give action to the bowels. He thinks the | thriftless farmer loses most in this way, as he com |
| :--- |
| pels his cattle to live in the stalk field. His plan | is to feed his cattle at the barn on corn and hay, ta about half their needs, and turn them on the

talks for a few hours each day, and let them eat stalks for a few hours each day, and let them eat
whatever they can find, whether of corn, smut or shucks, and he never loses any, and is satisfied he never will with this management. They will not
so greedily eat so many shucks when fed in this way. Mr. D. thinks it quite essential that the bowels of cattle should be kept somewhat loose by a moderate supply of corn, and then indigestion
will not take place. grass he feeds them a little corn and good hay, in reasing the corn from day to day until half the
need is thus supplied. and no danger in the stalk need is thus supplier. and no danger in the stalk
field need be feared. If cattle are to be kept cheaply, they had better be fed on straw and hay
than to allow them to make their living in the than to allo
stalk field.]

## Farmers' Clubs.

gravels or farmers' clubs-which? Sin, - As a class farmers are very slow to move as
an organized body. They are patient in enduring wrongs and tardy in the resentment of the injus-
tices to which the tices to which they are exposed. It is not that
they are less intelligent than other classes, but be cause of the partial isolation in which they live,
this prevents them from uniting in expressing their wants and grievances. But sooner or later the
time is coming when their voices must be heard time is coming when their voices must be heard
and heeded. The long winter evenings are now
approaching. We should assemble and disususs our and heeded.
approaching.
position and position and pro
future operations.
It was
were going to be a benefit to us, but the apathy and dread of loss have thoroughly disorganized
that Order. The injurious trading which has ab sorbed too much attention, the losses that have already been sustained, and the losses that most
assuredly must fall on the Granges by insurance and banking, together with other causes, have al-
and bady pread to such an extent that the best farm ready spread to such an extent that the best farm.
ers in this section at least will have nothing to do rs in this section at least will have nothing to do with it, and many of the most intelligent farmers
in other parts are abandoning it. The oath that
binds a man to aid and do all. he can to aid the binds a man to aid and do all he can to aid the
Order is the tie that prevents many from acting Order is the tie that prevents many from acting
openly and fearlessly in stepping boldly from its
hains. I say that because a Granger is not a ree man, he is a bondsman. Many of the organ-
zers have acted in honor and have attemptel to izers have to their fellow farmers; there are others
do goo act from the sole desire of pecuniary gain.
whe Who act from the sole desire of pecuniary gain.
The organizers got a fee and made money; the ge. A good profit has been realized on every scrap of paper and every tawdry ornament monthly dues have been exacted for years and not the conntry. All the goods purchased could have een parchased as
There has been some amusement and some trainGrange that I have yet heard of has done as much ood as Farmers' Clubs, and the Grange has in in each section should at once reorganize their
clubs and hold discussions on thbient nce to them. I have read the Granger and the ADVCATE. I consider the latter a most valuable ournal and one that has done much good; at the
ame time I think you are rather too severe on the Board of Agriculture and Arts. They may not
ave acted right in all respects, but what have have acted right in all respects, but what have
they to do with stock diseases? Veterinaries they to do with stock diseases? ©eterinarios
surely can attend to that. I think they are wrong
retaining the Secretary. I should commend in rety can attend to that. Secetary. I should commend
you to take a moderate course. I also think that
y you to take a moderate course.
you are rather too hard on Manitoba; from acrably of that country.
Should you think this deserving a space in your
journal, you are at liberty to use or burn it, but to give my name or residence.
[We have asked for fair and open discussion herefore we feel in duty bound to insert this, al $\mathrm{S}_{\text {Ir, }}$-Can oleomargarine be known with cer
ainty as distinct from butter? If so, how are
 [Oleomargarine, however well it is made, can be
known from genuine butter by its peculiar odor known from genuine butter by its pecaliar odor
"At a fair in New York City ten tubs of oleomar garine were smuggled into the fair in the following fanner: thrties who are interested in the manu vere friendly to forward the tubs to commissio ouses as genuine butter, with instructions $t$ so entered by these houses, it is said, in good faith without a suspicion of what the tubs really con States, in order to create no suspicion. The look of the stuff was quite respectable, nor was ther ny peculiar odor to it. But when the trier, or a the nostril immediatecly detected the strong smell of tallow upon the metal, which seemed to develop the purpose of testing the judges and in aned for that it could not be detected from true butter by
the best of them. It was very quickly found out however, in every case, and the packages were left
open for the inspection of the curious.

Improving a Farm
SIR,-You would greatly oblige me by giving
your opinion on the following: I have bought a farm of a pretty heavy clay loamy soil, which
seems to have always been plowed very shallow seems to have a ways been plowed very shallow
for if I plow it deeper than five or six inches, I
come into pure clay which seems to
 plow it deeper, to mix the wild clay (as I call it)
with the get the soil mellow to a greater depth, and give the
wate water more chance of soaking into the ground
What would you ad fields, or parts of fields, Canada thistles form a
great part of the crop. I intend to summer fallo great py plowing and harrowing them thoroughly several times, and then sow buckwheat thickly on the most thistly parts and plow it down when then sow it with fall wheat and seed it down with grass. I also intend to draw the longest and most
fibrous manre fibrous manure on the most clayey spots, and th
shortest on the more mixed spots. this is a good plan? After writing the alove I notice in your valuable paper that clover, when will try that, too. 1 am at present a reader of the ADvocate, and I intend to remain so.
C. L. W., St. Jacobs, Ont.

The first step for any permanent improvement
must begin at the foundation, so with your farm underdraining will do more towarna and anour farm. Plow it deeper than it has been; leave it as frost and air as possible. We have seen thuch stubborn clay soils plowed in England in the dry. est weather, when the clay would turn up in larg weight, requiring four heavy horses to draw the plow; this would be equal to about three span of our ordinary horses. This kind of work require a strong plow, hoo admits the fertilizing elements
plowman. This into the soil; rains, sunshine and frosts will all be state to admit them. Plowing clay land when it state to admit them. Plowing clay land when
is wet and easily turned over has no such bene
ficial results. We have tried ber ficial results. We have tried both plans and the
result on the crop is incredible. Try a small
. piece in this way-say one field or part of a field
Be sure Be sure and have your plow, harness and men al
of the right stuff. One acre plowed when dre hard may cost you as much as plowing eight acre when wet. We would rather take the profit of the you underdrain, the interest on the outlay may cost you as much as to plow four acres more. Then than from the twelve acres. Your system may do after the foundation is laid
A mere summer fallow, as fallowing is too fre
quently done, will not totally exterminate Canad thistles. To do it effectually not a single leaf of a thistle should be allowed to show itself on the crop is put in and no thistle allowed to the surface to breathe, then you will have a clean field that
may stamp you as a good farmer may stamp you as a good farmer. Hard labor is
requisite in any business to be successful. There can only be one master on a farm, that is, either the farm or the owner. If the farm is allowed to out of your possession. Then you will have to join with other shiftless farmers and bring yourser, as many are doing, beyond the pale of com-
fort and civilization, amidst mud roads, wild life and indescribable hardships and privations. Stick agenent together. The good farmers in England and in the eastern part of America are enjoying
all the comferts this world can afford; the baid farmers must shift as best they can ]
We give the following from an exchange in reply to a correspondent who wishes the
treat old orchards to the best advantage :
To rejuvenate old orchards, cut out all the dying
wood and three-fourths of the suckers; scrape the trunks of the trees completely, removing all the of whale-oil soap and water, a pound of the soap年 a bucket of water; and give the orchard, not nerely under the trees, but every part of it, a
heavy top-dressing of good barn-yard or compost heavy top-dressing of good barn-yard or compost
manure. It there is any life or prodnctiveness in
the trees this will bring it nut.

Cows Gnawing Bones. "Stockman "enquires: "Why do cows, when
they have good nourishing pasture, have a craving
for food that seems unnatural to the for food that seems unnatural to them? They
sometimes chew and swallow bones with apparent sometimes chew and swallow bones with apparent
relish, if any be within their reach. They even gnaw old shoes and wood."
of fheir pasture does not possess all the materials tritious. Something more is needed to build up their frames and keep them in healthy thriving condition. It is not only the tlesh that needs
daily food; the bones also need suitable food to daily food; the bones also need suitable food to
bild them up and to replace the constant waste It is necessary that animals be supplied with or have accesss to bone-producing materials. Some
materials are designed to produce flesh $;$ some to materials are designed to produce flesh; some to
produce fat and heat. In addition to these, animals need such substances as are bone-producing, such as phosphates of lime and other substances.
If the food of animals be deficient in these, they have an instinctive craving for them, and this inhave an instinctive craving ore them, There are many
duces thes en te.
pastures that are deficient in bone-producing mapastures that are deticient in bone-producing ma-
terial, and this needs to be supplied. From the teria, York Tribune we reprint the following item on the subject: "If soil is naturally deficient in
limesalts and has been scourged for some time by lime-salts and has been scourged for some time by
the esale of all its products, or by heavy stocking with breeding cows, the animals will soon come to
show the lack of the mineral food. Now in all such cases the artificial supply of phosphorus and such cases the artificial supply of phosphorus and
lime will meet the need. The daily administration of phosphorus leads to a larger development and a
firmer texture of the bones; and even to an infirmer texture of the bones, and even to an in-
creased deposit for the repair of broken bones. A cheaper mode of supply is to give bone ash in the ashes, then supply the fine powder to the amount of one or two ounces to each animal daily in the food. This obviates the risks of choking by the
accidental swallowing of the solid bones, of in accidental swallowing of the solid bones, of in
juries to the teeth and soft textures in the process of chewing, and of the introduction into the sys-
tem of putrid products of the marrow and other tem of patrid products of the marrow and other
soft parts in a state of decomposition. Besides sot sapply of bone-dust, it may be needful to give
tonics and stimulants to arouse the now torpid digestive and assimilating organs to a more healthy
action. A liberal supply of salt and of the purest water will be essential. In place of the bone. dust wheat bran or rape cake, grown on rich land, may
be employed to supply the lime salts. When this can be availed of it has the advantage of furnish-
ing the mineral elements in their natural com ing the mineral elements in their natural com-
bination, so that they will be more readily ab. bination, so that they, will
sorbed and assimilated."]

Sir,- Can you, or any of your readers, inform
me how to follow bees- to find bee trees in the woods? If you can give' me any information on
the matter you will very much oblige, as I am troubled with robber bees, having lost the honey
out of three good hives. I believe that bush bees out of three good hives. I believe that bush bees
have been the cause of this, though I clesed up the hives so that only one or two
time; but the honey is gone.
Also, can you inform me where I can prociure
the sweet balm cruse, it being ased by some for the sweet baim into the new hives.
H. G. S., Gorrie, Ont.
[The following from an American exchange, re-
specting the "Bee Hunter") and his method of specting he
following bees, may be of value to our correspond-
ent: "In autumn, when bees have almost finished their labors and are carrying home their last loads,
the Bee Hunter may be seen with his bee-box in hand, the bottom of which is supplied with a
choice piece of honey-comb. In the middle of the choice piece of honey-comb. In the middle of the
box is a glass slide to prevent the bee, when first caught, from becoming besmeared with honey, as
in that case, when liberated she would not return direct to her home. A bee is found upon a flower,
when the hunter, carefuly placing the box under.
neath, claps the cover over the bee, and withdraws the glass slide as soon as she becomes fuiet. The
bee soon fills herself with honey, the cover is re see soon fills herself with honey, the cover is re
moved, and she is ready to take her flight. Circling upwards, mounting higher each time, until
assured of her location, she darts in a 'bee line to her home in the forest. This is the moment
seized upon by the hunter to ascertain the direc tion or l ne of the bee. The box is allowed tor rest on some convenient elevation, as the bee soon re.
turns accompanied by others, and the hunter is turns accompanied by others, and the hunter is
then enabled to stake out the line, when he cate
filly covers the box, and carries the hees several
ods th the right or left, opens the box and takes a
"cross line," which enables him to find the tree
"res where the lines meet. The hanter sometimes when the angle is very acute-showing that the ree is at a great distance-when he lines again,
and also takes a cross line. If the honey happens and also takes a cross line. .
to be found in a hollow trund and well protected,
large fire is built at the foot of the tree, which a large fire is built at the foot of the tree, which
is cut down under cover of the smoke, but when he entrance is low they are often driven away bethe entrance is low they are orten driven away be. are often found in one tree, requiring a cart and
team to carry off the honey." Perhaps some of our readers can
respondent.]

SIR,-We Canadian farmers owe you no little
redit for the sand credit for the stand you have taken in warning the
Government and the Board of Agriculture of the Government and the Board of Agriculture of the ing stock from the United States to be sent into
the Dominion. I have read many good articles in your paper on this subject. There can be no monia has been and still exists in the States,
though itaro.pneuread in the Toronto Mail, October 3, the following
item:-"In conseguence of the prevalence of the tem:- In consequence of the prevalence o lately
foot and mouth disease anong 1,300 sheep,
rrived in England, the Privy Council is about to issue an order, placing American sheep in the same category with the cattle." Farmers of
Canada should insist on the strictest prohibition of sheep, as well as horned stock, from the States into Canada. No half measures will do. What is our Agricultural Association ahout that they never
take action in such matters. The introduction of these contagious diseases into our country would be incalculable injury. So, Mr. Editor, stir up ion. It is necessary for Canadians to wateh their interests. If they keep the disease out of the country the exportaion of ar sheep to be a profitable business.
London Tp., Oct. 1879.

Stockman.
SIr,-I have seen in an English paper lately a complaint of the appearance of sab in sheep im-
ported into England from the United States and ported into England from the United states and
Canada, and though none that were imported from Canada, and though none that were imported diseased, the introd uction of it from our neighbors gives apparent grounds for ob
jections to the importation of live stock from any part of America to England. It is well that exporters and breeders in the Canadian markets
should have warning to ship no animal that has should have warning to ship no animal that has
the slightest symptom of any disease, and the ADJ-
vocate having so wide a circuation in the Dovocate having so wide a circulation in the Do-
minion, is the best means for the purpose. There is no excuse for farmers permitting scab in their
flocks when the remedy is so simple and inexpensive. Tobacco is a simple and effectual remedy Two years ago a farmer bought a flock that had
been quite scabby. They were dipped twice in been quite scabby. They were dipped twice in
tobaco juice, and there has since been no sign of scab in his flock. I can add my own testimony t to
its being a sure remedy. A. O. F., Kingsville..
[We do not know that there has been any scab ing can do no injury, and your remedy may some time prove useful. "Fore-warned is fore-armed."

SIR,--I wish you to tell me through the ADVo-
CATE what quantity of bone or phosphate should CATE what quantity of bone or phosphate should
be used as a fertilizer for wheat. My land needsa |The amount of bone or phosphate to be applied to wheat depends on the condition of the land.
If in good heart or fair condition, one hundred and If in good heart or fair condition, one hundred and
fifty to two hundred and fifty pounds to the acre;
and if the land is so poor or exhausted that you fear young grass will not make a good catch, then apply three hundrea to
acre. The above amounts are for fine ground raw acre. and for the best class of phosphates. If the lone is coarse or the phosphate poor, then much
larger amounts must be used to obtain the same results. We get the best results from this bone by if you want to meke a heavy a pplication, of say three hundred pounds, drill a portion of the bone dust separate and then go over the same way,
finishing with the bone and wheat mixed in the
drill together. I

Transplanting Evergreens. SIR,- I have been unsuccessful in trying to grow
cedars and pines planted a number of cedars, wishing to have a durable evergreen fence by my front yard, but they per ied. A few words on the subject in your pa-

[The failure of evergreens and other trees to
grow when transplanted arises from taking them ap from their places without sufficient roots, or
up from allowing the roots to dry before replanting, trees should not be too old and large for removing.
The holes should be prepared beforehand, and be large enough to allow the roots to be spread to their full extent. It is well to steep them in water or in diluted cow droppings, if they have
become at all dry. When planted mulch with
fallen fallen leaves or litter. This will save them from freezing in winter, and preserve the moisture in summer. Some prefer planting in spring and
others in the fall, and we have never had any fail-
ures in ures in fall planting. No evergreen is more cer
tain of growth than the American cedar tain of growth than the American cedar.]

## Ticks.

If you have not yet killed the ticks on your sheep by all means do so before the cold weather material in feed, in wool, in mutton and in the lives of your ewes and lambs next spring. Every good sheep farmor in Britain takes care to hav the ticks killed once a year. Mr. Briggs, of Ham ilton, has now introduced an effectual remedy tha will pay every farmer to use. It can be sent by mail to any part of this Dominion, and thirty cents expended for it may save you the loss of farm animals, as they are paying better than any other branch of your business Keep them all right and they will pay you much better.

## Useful Hints.

Sprigs of wintergreen or ground ivy will drive away red ants; branches of wormwood will serve he same purpose for black ants.
and sifted very finely, thordughlyground and mixed with oll, make a good cheap paint. Any To rest
which has become stained, mix up a mantlepiece the strongest soap lyes with quicklime to the concistenee of milk and lay it on the stone for twenty four hours. Clean afterwards with soap and water.
Papering and painting are best done in cold weather, especially the latter, for the wood absorb the oil of paint much more than in warm weather while in cold weather the oil hardens on the out
side, making a coat which will protect the wood instead of soaking into it.
To Remove Moths. - Moths will work in carpets in rooms that are kept warm in the winter as well
as in the summer. A sure method of removing the pests is to pour strong alum-water on the floo to the distance of half a yard around the edge
before laying the carpets. Then during the season sprinkle dry salt over the carpet before sweeping. Insects do not like salt, and
sufficient adheres to the carpet to prevent their alighting upon it.
To prevent flat-irons from rusting, melt a quarter an ounce of camphor, and half a pound of fresh hogs lard over a slow firo, take off the scum, and vill briwh composition a the articles for which it is intended. Let it lie for twenty-four hours, and then rub it well with a dry
linen cloth. Or mear the iron over with melted suet, and dust thereon some pounded unslaked
lime from a muslin bag. Cover the irons with lime from a muslin bag. Cover the
baize, in a dry place when not in use.

## Marketing Inferior Wheat.

SIR,- I wish to call your attention to a grievanc in the Chatham market. The wheat 18 sent to
market in a most unfit condition. In fact, it is complete robbery to bring such unprepared stuff to any market and call it clean whet. Is there no law by which such nefarious transactions could be
prevented ? The loss to the country must count prevented ? The loss to the country must count
up high in the thousands. We that sell good grain up high in the thousanas. We compelled to have ours mixed with such rubbish as comes to market, greatly to ou
detriment. Our wheat will rate No. I, I believe with any raised on the continent; and it is too bad to see some farmers bring such stuff, and call it
wheat, and ask the highest price, bringing down the price of No. 1 , and lowwering the quality o
Chatham wheat. Good wheat brought to market Chatham wheat. Good wheat brought to marke
is mixed with the inferior article, and the mixed is mixed with the inferior articie, and the mixed
wheat is then marketed as No. 1 Kent; when, in
a fact, the buyer has deducted two or three cents bushel, which he puts in his pocket, and the good
wheat becomes No. 2 in grade with other wheat.
(It is to the true interest of the farmer to orin his produce to market in the best condition, bu there are some, we fear, who do as our correspon
dent says. There is not tufficient differenee made by buyers between the different samples of grain. Were they mpre exa
better for alf parties.]

$$
\mathrm{S}_{\text {TP }}-\mathrm{Th} \mathrm{C}
$$

SIR, -The value of muck as a fertilizer is a dis-
puted point in this neighborhood. A farmer who puted point in this neighborhood. A farmer who
applied $i t$ to fields of grain crops and of root crop appiied never saw any good results fro
says he
an article on the subject some years an article on the subject some years
ago in the ADvocate, but have misago in the ADvocate, but have mis-
laid the paper. I would request a
few lines in the current few lines in the current numberr, as you are well posted in all points re-
lating to the farm. S. D., Chatham. having. failed to produce any percephaving.failed po produce any percep-
tille effect is not at all aul unusual
one--not because muck is barren of one-not because muck is barren of
the elements of fertility. There is often in it not less than four or five per cent. of ammonia, but is is not in
:i form available for plant food. It is combined with aciids, and is in consequence insotuble. Muck, when
dug from its bed, should be left for time exposed to the influence of the atmosphere,
till the acid liquid has quite oozed away. It may be then mixed with stathe manure, and in this
state it will become slowly soluble is a good fertilizer for either light or heavy soils, especially for pasture or root crops. If it be composted with lime or ashes, it is more speedily-de-
composed, and in a short time becomes a valuable composed,
fertlizer.

SIR, - Will the cut or grub worms be more
likely to destroy the corn on timothy sol if plowed likely to destroy the corn on timothy sod if plowed
this fall and skim-plowed in the spriug, than if plowed next spring.
[Plowing late in the frll is one of the best means
know for destroying insects, if they are turned kuown tor destroying insects, if they are turned
with the furrow. In the case of cut worms those that are left alive will continue to eat until destroyed, since they are of only one years growt
in the soil. The white grub reyuires three years to complete its growth in the soil. The third year it does little or no damage to crops. The second year, or when haln to two-thirds grown, is when it
does the most injury. If it be ready to change into the beetle state next year, but little trouble may be anticipated. In any event fall plowing,
say to a depth of six or seven inches, will assist in say to a depth of six or
destroying the larvie,] $\qquad$
A great many farmers make a mistake in buying
their curry-combs. They yuy them in the spring their curry-combs. They buy them in the spring
about the time when they get a new hired man. The proprietor tells his man to cleause his horses
well. so the new groom, with the new cemb scratches the horse up and down, backward and
forward, for five or ten minutes. I would like to see a horse that would not get angry with such foll-November or December is a very good time.
At that time the horse has a very thick coat, and there is not much den er that you will scratch a
horse solpadly that he will hite or hick at youn. 1 , bite, and I ams satistied that it is his own fault. He
licks and kicks his horses more in one week than I licks and kicks his horses mores
than I do mine in five years.


## quattry.

The exhibititions during the past 6 weeks have occupied so much of our time and attention that we have had to shorten our Manitoba article this
month. But we have some notes to prepare yet. The accompanying illustration shows the mode of carrying the lady passengers from the station to the tage, namely, the ladies stand on the bottom step of the railroad cars. The stage driver grasps them round the legs, and transports them safely through the mud into the muddy conveyance, and thence to the hotel. But good mud must not scare a good settler, although Manitoba mud will always be a horror to the cleanly housewife. But fortu. rately mud does not last all the year. We speak there in a dronth, and depicted it truthfully, some would not be pleased; had we been there in winter and been caught out in a storm, we might not be heard of again.

The Potato Crop in New Brunswick. Comparatively few of our own people are aware of the extent and value of the farms in the county of Aroostook, and the rapidity with which improvements are being made since faciities have been given to send products of the fied and fores to the great markets on the seaboard.

Which Large Breed of Poultry is the Best.
Each of the large breeds has its friends and its merits. Without entering into a description of merits of each, and without meaning to say anything to the detriment of any other breed, we would say that the Brahma usualy proves eatis-
factory, and that we should just as soon have it as factory, anow.
The house need not be so very large; ; fifteen feet
Tuare will answer for seventy-five chickens square will answer for seventy-five chickens. Bu
it must be well ventilated. Have the yard just a large as you conveniently can, the larger the bet tice m
Lice may be got rid of by syringing with a solu-
tion of carbolic acid. A preventive will be found tion of carbolic acid. A preventive will be found
in thoroughly washing the walls with a strong lime wash, containing a pound of sulphate of iron
to every three gallons. It should be applied hot to every three
from slacking.
The food for laying hens should be nu
tious. During the cold weather tious. During the cold weather a nutri
soft, warm feed of some kind should be fed in
the morning. This feed should be mixed the morning. Chis feed should be mix
nearly dry. Boiled potatoes, mashed a
thoroughly mixed with corn meal, while war thoroughly mixed with corn meal, while warm,
are good, and greatly relished by fowls. Barley are good, and greatly relished by fowls. Barley
meal provender and wheat middlings are very meal provender and wheat middings are very
good. In cold weather the fowls should be fed in ing meal should be of whole grain,
such as wheat, oats, buckwheat and corn. Some meat should also be fed
in some shape. Broken oyster shells powdered or burnt bones will fur${ }_{\text {nish this. }}$ Pulverized earth is the kest dust Pulverized earth is th
bath.-[Western Rural.

## The Poultry House.

 If a hundred or two hundred fowls are kept, not more than one-half ofthese should be housed under a single if hens are kept for laying purposes
and for marketing, twenty to thirty It is impossible to travel through the country withont observing the great extent of land planted with potatoes, and the fine appearance of the crop. It is no unusual sight to see farms with ten, fifteen, There are now twenty-two starch factories in the country, each of which is capable of working up rom 1,500 to 2,50 per day. Those factories will
2,000 bushels each per aver 2,000 bushelsoach per day. run until about the middle of November, making at least sixty days' work, after they commence
This will give for the season-a total of $2,640,000$ bushels manufac tured into starch within the two months. Should the weather continue mild as late as it frequently
does, the cuantity manufactured may be largely increased, the crop being so abundant this year that there will be no necessity to stop for want of
raw material. raw material. The price paid for the potatues a
the factory is, in most cases, 25 cents per bushel or a total, for the above-estimated quantity, of $\$ 660,000$. This is a large amount of money to be distributed among a portion of the farmers of
county for one kind of produce. A low estimat places the whole crop of the county at over five and a quarter milions of bushels, and at the same
price as paid by the factories, the value will be
over $\$ 1,300$. 000 . But the price eneneally obtained over $\$ 1,300,000$. But the price generally obtainee
for the portion sent away is much higher than paid by the factories; so that the amount above named
may be received and enough retained for home consumption and seed nextyear.

A correspondent of the Rural. Messenger has
had good results from the application of lime, wood had good results from the application of lime, wood
ashes and old iron put around the roots of fruit trees that were not doing well, thus restoring the
trees to a healthy condition and improving the पuality of the fruit. As a wash for mossy trees
he gives the following: Heat an ounce of sal-sod he gives the following: Heat an ounce of sal-soda
to redness in an iron pot, and dissolve it in one yallon of water, and while warm apply it to the
trunk. After one application the mas trunk. After one application the moss and old
bark will. drop off, and the trunk will be quite
smooth.

## in a flock is a much more profitabl

For a For a single house, then, in which to quarter
thirty to forty fowls the year round-if these can have a roomy yard outside to run in-the henhonse may be fifteen to thirty feet, divided in the
centre, with runs and yards to correspond; said centre, with runs and yards to correspond; said
yards to be divided, also in the middle, by fencing. Or, a house twelve by fourteen feet will be ample. The shape must be made to conform to the space
which the poultry man bas to devote to the building conveniently, the ground floor occupying in round numbers 440 to 500 square feet.
Rought boarding battened over the seams, a shinglect, quarter-pitch foof, the want ten feet high
in front and six in rear, a portion of east and south in front and six in rear, a portion of east and south
sides glazed with sashes to let in light and sun-
winth warmth in winter, and small openings near the eaves at both ends for ventilation will give you a
good substantial house, in which fifty to sixty yood substantial house, in which hity to sixty
fowls may be kept (in two apartments) to advan-
tage. And this building should cost not over $\$ 60$ tage... And this building should cost not over $\$ 60$
to $\$ 75$, built upon a three by four inch joist fram. to $\$ 75$, built upon a thr
ing.-[Poultry World.

Table Refuse for Poultry
A proper feeding pail is an absolute necessity to successfully prepare the refuse of the table and kitchen, to make it proper food for fowls. Get a hardwood pail, or ask your grocer for a hardwood butter firkin shaped -like a pail. Cut a board to
fit into the chine firmly on the whole botom of the pail, and thick enough to project an inch or all scraps and waste of every kind, cooked or raw vegetables, chicken boncs, and everything except beef, pork or mutton bones; these save by them-
selves, and put into a stock soup, kettle, with all
all pheces of raw meat, or cheap several days; then cut up the soon as they become soft.

PRIZE LIST OF THE FAIRS.

## (Abridged.)

Industrial Exhibition, Torovto
horses.




 Stallion 4 years old and upwards, $\mathbf{W}_{\mathrm{m}}$ Meek, Langstaff;
Wm Hendrie.
Stallion 3 years old , Yichnel Perdug Cam



 and











 ears old, 1 John M Bell, Atha; 2 Wm Cox, Thornhill, Year

 wo years olid. 1 Duyald McLean, York Mills; 2 George Keith
Toronto. Yearling filly, I and 2 A Pilkey Uxbridg.
Brood










Provincial Exhibition, Ottawa.
gold medals.
Best stallion, anyy ave, "Magyar," John Clark. Best pair
mateten h horse, geidinपs or mares, is harness, Alex Frankliin,
Norrishury

 one bull and hive females, of any age, Georye Ruda. Betse
herd of Ayrshire cattle, consisting of one bull and 5 females
ehe




Central Fair, Hamilton.





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gouler
Beurr
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Western Fair, London

## .








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sutury - Lox. woultain


 $\left\lvert\, \begin{aligned} & \text { Tine } \\ & \text { like } \\ & \text { R. }\end{aligned}\right.$



## Guelph Central Fair.






 Turnips, Marrhalls siv
 CChas Heal, 2 T Talbot; 'slarpe's improved purple- top swede
IJs Anustrong, 2 Jesse Auderson; Carter's imperial purple,




St. Dohn County, N. B., Fair.








 carriage and gadale stallion,
carriage mare, 1 B Hevenor, 2 Whay
sIlerP.






Prince County Exhibition, P. E. I.

 Alrshirest shll carthor,
heifer calf, A Wright.
Wheat, Robert P Hooper, Bedis Wheat, Robe
Port Hill: wo-t
Sumuerside.
 Subjects for Thought.
Civil and Military Squabble.-At the presentation to the Marquis and Princess in this city a soldier was stationed at the entrance with fixed bayonet, having instructions from the commanding officer to let no one pass. The Chief of Police attempted to pass, but was repulsed by the soldier. The Chief then summoned the soldier, who was fined one dollar and costs
trate. The soldier appeals. The Queen must defend him in the discharge of his duty.
Our American neighbors boast of their freedom, of their churches, of their great speakers, and their humane and religieus societies. Yet, despite for the great sin of attempting to protect them. selves from the vilest depredations continually committed on them by the most lawless and unprincipled inhabitants of their country. Where is justice: Where is their vaunted freedom? Every report admits that the white men are the aggressors.

Bank directors have been arrested and incarerated in prison in England and in Montreal for passing false accounts to the public. Too much
leniency has been shown to rascals who obtain money under false representations; there are too many influential persons ${ }^{\circ}$ who favor leniency to such. All our moneyed or trust institutions should be closely watched. There are many in Canada that are living on other people's money; they make a great show, live in style, aind give largely of money not their own. Some should be in jail instead of in their carriages. Closer investigation is
required. Some Government officials ought to be required. Some Government oncials and
in irons; some receive money and give no value in return for it.
The prospects are that beef and mutton will be nuch higher in England after Christmas, as the hay, turnip and grain crops are deficient there. This year they have not the feed to fatten their
usual quantity. Keep all the stock you can keep well. -_
of our advertisers of LeiMr. Hugh Love, one much better sales this fall than for many years past ; in fact, it is difficult for him to retain sufficient for his breeding stock, the buyers tempt him with such prices,
Mr. T. W. Glen, of the Oshawa Manufacturing Works, informs us that he sold over $\$ 5,000$ worth of agricultural implements at the Western Fair in London. He erected the best show stand on the ground. He also informs us that he would expend $\$ 00$ or $\$ 10 \mathrm{i}$. the Exhibition Ground, if the institution was per
manently fixed. This, no donlt, would be largely supp'emented by other manufacturers. The Directors should exert themselves to obtain such nec
Ravates of Pletro-Pseumonia.-Putnam Co., New York, is excited over the ravages of the contagious Pleuro-pneumonia. At a meeting of the citizens in the county, Oct. ., John G. Borde
offered to alvance $\$ 10,000$ to wards crushing out the disease. It is supposed the disease was communicated by a drove of cattle coming from Buf falo via Albany
whole county.

A Good Prospect for Farmers. The farmers should never be despondent. One
and favorable season may remove the incubus of debt that paralyzes their energies.
case with not a few this year. The following extract from an American paper is as applicable to our own fair Dominion as to farmers south of the line. A Canadian farm is $f$ after all, not the worst paying or least secure bank to invest money in.
Advance on Farm Lands. - The wheat crop
just harvested has asved many a farmer from bankjust harvested has saved many a farmer rrom bank-
ruptey. A story is going the rounds of the yards of a man who thought he owned 640 acres of good
land, but the same was covered a foot thick with land, but the same was covered a foot thick with mortgats, to pun in about six hundred acres of spring
mind to
wheat, which could be harvested and marketed bewheat, which could be harvested and marketed beore the mortgage would close him out; he for-
owed out his plan, and when he came to thresh he lound he could not only pay all his debts bethave several thousand dollars left, which made him a
rich and an honest man all at one time. Numerous rich and an honest man. all at one time. Numerous
other instances are related of farmers that for the first time in many years put in 40 to 60 acres of
wheat, the yield of which has paid off their long wheat, the yield of which has paid of their long accumulated debts and farmer who in the spring looked with gloomy forebodings on the future now
thinks this a pretty good world, after all said and done, and this happy frame of mind is due to the good crops of wheat and ether crops

Emigrants from England
The ensuing season gives promise to be one of the most important in emigration that Canada has witnessed. Agricultural Commissioners are on the prospects of the cicutural prode There are also in the country delegates from the tenant farmers of England to inquire and report what would be the prospects for emigrants of that class in Canada-men who are practical agriculturists, thoroughly conversan with farming, and having means to carry it on as will becomound done. It may be that English farmer those seeking new homes in the northwest have occupied.

A Peasant Proprietorship. The striking contrast between the agriculture of a country farmed by the yeomanry and a country under a peasant proprietorship was thas portraye by Lord Beaconsfeld in ar The question of peasant proprieership in France $5,000,000$ of peasant proprietors who do not hol each more than six aeres of land-that is $30,000,00$ acres. What is $5,000,000$ of proprietors occupving a superficies of $30,000,000$ acres compared with what our 500,000 farmers have done. France has a most fertile soil,
while that of England is ungrateful ; and that fertile soil is managed by the most ingenious and thrifty nation in the world-a nation that can make something out of nothing; that displays in its
management the greatest ability. But what is the
result? It is that the production of England per management the greatest aoduction of England per
result? It is that the prod
acre is double that of France. The average of acre is double that of France. The average of
England is 28 bushels; of France it is 14 bushels.
The Germantown $\overline{\text { Telegraph }(O c t o b e r) \text { says : }}$ : Those who wish to cultivate smilax next winter
" should start it now. Separate the bulbs, allowing but two or three to a four-inch pot. Use loam, leaf mould and sand in equal quantities for pot-
ting, with a little cow manure mixed thoroughly ting, with a little cow manure mixed thoroughly
among it. Place the pots where they may have a fair heat, and not much sun, and keep the soil just
moist. When the plants, appear above ground moist. When the plants appear above ground
remove to a window where they may get the morning and evening sun, and keep the pots moist, but not drenched with water. Smilax likes plenty
of heat, but not a hot sun. Many persons make of heat, but not a hot sun. Many persons make a mistake in attempting so trand yiven a small
trellises. They should simply be eili make a nice
twine to cling to. Thus they will twine to cling to. Thus they will make a nice
growth, and besides being very pretty will furnish growth, and besides being very pretty will fur
an abundance for cutting during the winter."

## British Columbia

On Reading.
Sir,--Your readers would, I have no doubt,
ike to hear something from this, the most distant pe to hear something from this, the most distant
part of the Dominion. Though rains have caused large as in former years. As a rule, spring wheat proved superior to the fall wheat, as last winter was
unusually wet. Root crops are ver heavy Many unusually wet. Root crops are very heavy. Many
portions of the country are admirably adapted for portions of the country are admirably adapted for
the cultivation of fruits and cereals, and horses
winter out from the winter out from the 49th parallel to Fort Frazer, a
stretch of 450 miles. The climate is favorable, stretch of 450 miles. The climate is favorable,
healthful and delightful. All kinds of breeds of cattle brought here thrive, without risk of loss by being arclimated. Cattle have been raised here in
British Columbia, driven 2,400 miles to $W$ younin British Columbia, driven 2,400 miles to Wyoming
Teritory, U.S., then brought from there to Chicago, and sold at a profit. When the C. P. Railway
is completed this will be a magnificent country.
$\qquad$ VIC
The Canadian Horse.-Mr. Herbert, a very at the truth, says: "With the one solitary excep
tion of the tion of the Norman horse in Canada, no special
breeds have taken root as such, or been bred, or attempted to be bred, in their purity, in any part
of America. In Canada East the Norman horse of America. In Canada East the Norman horse,
imported by early settlers, was bred for many imported by early settlers, was bred for many
generations entirely unmixed and as a general agri cultural horse of the province exists yet, stunted
in size by the cold climate and rough usage to in size by the cold climate and rough usage
which he has been subjected for centuries, but in no wise degenerated, for he possesses all the hou
esty, courage, endurance, hardihood, soundness o esty, courage, endurance, hardihood, soundness of
constitution, and characteristyic excellence of feet constitution, and characteristic
and legs, of his progenitors."
Corvin Horses' Fert.- - Corns are the result of
bruise of the sensitive parts of the sole of the a bruise of the sensitive parts of the sole of the
horse's foot, and generally occur at the in: ide heel. They are caused by the the shoe. Among the symptoms are redness or discoloration of the hor
at the inner angle of the heel, more or less increas. ed local heat, tenderness, and consequent lameness. When standing, the horse is inclined to
favor the foot, by slightly raising the heel from the ground. In some cases active inflammation
and suppuration may ensue, evidenced by the escapo of matter above the hoof, where the hairs
join the same. In ordinary cases relief may be jon the same. In ordinary cases relief may
obtained by proper attention to the shoeing. Such
horse should be shod regularly every three four wetks, the diseased parts earefully pared down, but without starting the blood : and the
shoe should be affixed so as not to bear on the inshooe should
side heel. - Ex.

The following passage is from an addiess report-
in the Boston Advertiser, by Dr. 0 . Wendell ed in the Boston Adrertiser, by Dr. O. Wendell
Holmes, at a recent annual meeting, in the house Holmes, at a recent annual meeting, in the house
of the late Mr. ©. Ticknor, of the society to Encourage studies at Home. He asked
That is shall we make a serious business of reading? This seems a strange cuestion to ask, but let
me give some meaning to it. It was at the hospit able board of this very house that I heard the late
Mr. Edward Everett tell a story of Lord Palmer Mr. Edward Everett tell a story of Lurd Palmer
ston, which I have never forgoten, and often re ston, which I have never forg-
peated. Some asked hini-
"Have you read a cert in "Have you read a certain book ${ }^{\text {"I }}$ I never ning it. ston's answer.
Mr. Everett
Mr. Everett did not explain or account for this
answer, so far as I remember, but I siupose he answer, so far as I remember, but I suppose
meant that he had enough to do with reading writ.
ten documents, newspapers, the faces and charac ten documents, newspapers, the faces and characters of men, and listening to their conversatiou to
find out what they meant--perhaps quite as often find out what they meant-perhaps quite as ofte
what they did not mean. Some persons need reading much more than
others. One of the best preachers I have known others. One of the best preachers I have known
read comparatively little. But he talked and listened, and kept his mind sunticicently nourished
withoutoverburdening it. On the other hund without overburdening it. On the other has a, one
of the most brilliant mean I have knowa was al ways of the most brilliant men I have known was always
reading. He read more than his mind could fariy.
digest, and, brilliant as he was, his conver ation digest, and, brilliant as he was, his conver ration
had too much the character of those patch work
quilts one sees at country cattle shows, s. varitgatपuilts one sees at country cattle shows, so varitgat
col was it with all sorts of
The first time tation. The first time l ever visited Theodore Parker he
was not quite thirty y yars old, and I own that hiy
reputation as a scholiar liall nut reached me. lut reputation as a scholiar lial not reache d we. In
looking round his litary, I saw upon his shetves

The Futcre of Wheat Cultivation.-The
operations this year will tend to greatly stimulate the cultivation of wheat lands, and there is an unsettled district in northern Texas, which,
lieved, could supply as much as Europe needs this heved, could supply as much as wip be seen one
year. In this year's experiences will of the great results of the rapid commercial com-
nunication that rules the world. All the west of Europe would be afflicted with famine this winter if this were not an age of telegraphs and steam-
ships and the systematic interchange of infornaships
tion.
Catrle Diskase-The New York E.ppress says : There is a far from agreeable plevalence of pleuro-Pleuro-pneumonia, it is claimed, is very contagious, is unwholsome and sometimes even poisonous. It is a curious fact that there is, at the present time,
more pleuro-pneumania in this city than in all other parts of the country put together.

Good times have now farly set in again. Good
crops, good prices; confidence again restored merchants and manufacturers hopeful; and frequently the railroads and steamships are blocked
with freight. Freight and goods have advanced with a greater bound than ever known before;
every car in requisition. Peace and plenty reigns. At the International Fair to be held in New
York the second and third weeks in December, Canadians are invitec to compete for two prizes for creameey butter, two for dairy
of one hundred dollars for cheeses.



The family Cfircte.
"Home, Sweet Home."

## THE DAY YOU'LL DO WITHOUT ME

## two chapters.

Chapter I.
The day was full of sweetness and light, the
glory and warmth that only summer can shed over glory and warrth that only summer can shed over
and extrat from the land
Down to the oft of the verdure-covered old Vicarage-house-where
the chief action of the story $I$ am relating took place-broad meadow. lands lay bathed in a purple
haze-purple haze that pyoke of intense haeat in
hit the open, and that made even the selle -aborbibed
young pair under the trees on the lawn grateful for young pair under the trees on the lawn grateful for
the shelter afforded them. Any one who had deen the sheter ther orraed thame. sen the naturananess of
them ther-aborption, and at the same time have
 birwen the third daughter of a poor country par-
gin, who eked ont a slender professional income
ond gind who eked ont ${ }^{\text {s. }}$ slender pro pessional income
by taking pupils.
The boy was the highly prized by taking pupils. The boy was the highly-prized
son of a noble house. And still they were allowed to be together
The oung fellow of seventen, though he had
not come to his full heritang of manly beanty yet was a very worthy idol, so far as appearances went for a young girl to set up and worship. He had
the slender, clearly defined, delicate form and features that belong to the handsomest race in the world - the English aristocracy. There was a look
of "breed" about him that was unnistakablethat look that is never seen unasess blood and cull turen, that May Baron contrasted him with the
 anh
whereon ghe worshipped Lionel Hastings unceas ingly: She was supremely happy this morning,
for her mother had given her a hal-holid ay to dis pose of as she pleased. That excellent mother, on
household cares intent, quite believed that she would go off for a stroil in the woods with som girl-Iriend, asit had been har wontly of rom her
childhood. But Lionel magificently ordered her to "stay and read poetry to him under the weep.
ing-willow;" and she was only too pleased to obey him ${ }_{\text {The }}$ The sanbeams fell down like scattered gold young heads-the boy's covered with crisp curls o
dark brown; the girls crowned with such yolde dark brown; the girrs crowned with such gold
tresses as only fall to the lot of one woman in tresses and The masculine head reposed comiont.
thbly on the boy's own folded arms. ably on the eby's swn folded arms. The feninine
one was bent o own over a orume a collection of
miscellaneous poetry-from which she was reading miscellaneous poetry-from which she was reading
lines and verses at random.
"This is very jolly," Lionel said languidly, fo
the heat was subduing him. His only reason for speaking at all was that May had kept her violet eyes cast down on her book for a long time, and he
liked He had his " "tastés desi
 friiges obediently, and bent her honestly adoring
gaze upon him, as she said, sympathetically
 yast increase of energy, hhen he withdrew one arm from under his head, and thung it round her
slender waist-slender certainly for thousb senderwaist siender certainly, for though May
wasten, she was symmetricilly and perfectly
formed. "Now you may formed. Now, you may go on realing," the
young sultan said, as May acknowledged his caress by saying. "Oh, oear Lioncl!" A rosy color
flushed the girls face. The thought that perhaps she ought not to let lionel Hastings treat ther as ha
might his sisters crossed her mind and dounded her happiness sor an instant. Then, in purity and in in.
nocence, she blamed herself for even that thought. nocence, she blamed hergelf for even that thought,
condemning it to herself as "drealful." Then in her confusion she began reading at randon, select.
ing by chance the very poem she ought not to have
selected. It was an American poem, written by
an anonynous author, and deserves too be more
widely widely known than it is. One verse ran thus :

|  |
| :---: |
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|  |  |
|  |  |

Her voice had faltered more than once in the
reading, and he had watched her confusion, and enjoyed it w
was, he knew was, he knew so woil what was in the young girls
heart. He thoroughly understood her sudren
shen shame, and perfectly realized how keenly the dread
that he might go away and forget her, cut May ${ }^{\text {Barrn. }}$ "Look at me, pet!" he said with sudden au${ }^{\text {thority. }}$ II-I
stammered looking for something else to read, "Looker at me, and confess : Aren't you sorry
you read those lines, because they describe your you read those lines, because they describe your
oww situation and feelings to a certain degree ?" "Lionel, don't be so rude and cruel.
He had taken her chin in his hand, and turned was telling the truth, that she loved him much! My own pet!" he said, more softly and seriously. I shall never go away and forget you-trust me
or that." Then he reared himself up, and kissed or that," Then he reared himsief up, and bissed now; and May was well content to believe him. I shall have you painted by Millais,", he said pre-
sently lying back and regarding her critically. "Shall you" she was slight with pleasure at
the way in which he was assuming the right to the way in which he was assuming the right to
direct her and manage for her in the tuture. Who is Millais? Is he any one I ought to know about?"
"He's one of the greatest painters alive," he aid with reproving gravity. I don't know that $I$ painters, if it weren't for Leighton's conflicting laims. Of course you ought to know about him, eet; only, how should you know about sny one
while you're kept cooped np here !', Then he went
to tell her that Millais had panted his tw n to tell her that Millais had painted his $t w o$
isters, both of whom were great beauties and elebrated belies, and both of whom were married o peers of the realm. "They were the youngest
brides of their respective seasons," he added. "Ida was only sixteen."
ent.
"Yes, by Jove ! you are sixteen. But my sister end of offers ; but my mother knew that St. John would come on at the end of the season, so she kept would con
Ida free."
"It wa
"It was lucky your sister Ida didn't care for any
the others," she suggested timidly. "She others," she suggested timidy.
"She though. She was an awf
fellow called Bartie Friel; but he hadn't the cousin, and introduced St. John to Ida. He thought"-the boy paused, and laughed lightly at
the absurdity of it - "that Ida would win old St John's liking, ond get him to give Bartie,something good; but Ida won something more than old st. ohn's liking-she won the title and coronct.
"And his heart?"

And his heart?"
His heart! I
opularly supposed to have lost his heart thirty ears ago to my mother.
"Then he must be quite old?" May questioned old and gray?"
"Of course he is. He's fifty, and Ida's eighteen." "Poor thing!" May ejaculated with honest pity "Very few people speak of Lady St. John as "She's the leader of about the best coterie in "ondon."
The Boy's. Friel then," she then said softly The Boy's face clouded. "Bartie Friel is
He stopped abruptly. And she asked with interest: "Is what? Never mind ; I can't tell you, pet. Something young lady," he added, half sneeringly; then he
ended by saying: "He's not half such a good fel-
low as old st. John, after nll." low as old st. John, after all.
They were summoned to
this, and May went in dreamily, her head being ful of faint outlines of the romances in real life, of which

The dining-room of the picturesque vicarage was
dreary an apartment as drab furniture and dingy as dreary an apartment as drab furniture and dingy
papered walls could make it. Nature had done a great deal for the room by throwing garlands o blush roses and French honeysuckle across the lat ice windows; and through these horal shades th
sunbeams fell in the dancing, graceful way in which sunbeame do play through leaves. But, alas ! al beauty and grace came to an end here. The coarse
crude, time-worn, children torn furniture could crude, time-worn, children torn furniture could
not be beautified even by the sunbeams. We are so apt to accuse the mistress of a house of "want
of taste" if her surroundings are ugly and stiff and of taste" if her surroundings are ugly and stiff and
soiled. But how can a woman with an empty purse ond full hands drape windows artistically, and polish up her household gods perpetually? Poor
Mrs. Baron most certainly had not solved the diffiNrs. Bron most certainiy has not solved the diffi
cult problem of how this was to be done. She has seen things fade and grow more and more dilapi efforts to repair them. But repairing is not replac ing, and things had been meagre even at the beginhing; so now it was but small wonder that an air
of dull though decent poverty should reign over everything inside the house.
It may be asked: "But with daughters who were grown up, should the taste of beautifying, or
of attempting to beantify, have been left to the of atteady overworked mother and manager?" The answer is simple enough. The two elder girls wer wearing their way, through the world as yover
nesses. And May's education was incomplete, she being only sixteen. Truth to tell, May had never troubled her handsome little head about any o these shortcoming day. But now when she sat down to lunch con, something about the dinginess of the room struck her as being sordid and utterly inharmoni ous; utterly out Lionel Hastings like an atmosphere. Her meditations on this subject were put to flight abruptly. Her father spoke in agitated
tones-tones which the poor wife knew so well portended fresh anxieties, fresh struggles, fresh combats with poverty. Lionel, 1 have had etter from lady Hastings this morning; she thinks
that the sooner yon go to Oxford the better." Mr that the sooner yon go to dxord the veter. Nionel
Baron's voice trembled very obviously. Lionel "going to Oxford" meant the direct loss of thre hundred
Balton.
It is needless to recapitulate here all that was thought and felt and said after the key-note of
seran separation hal been struck.
boy's natural delight at the proposed change, there was a pang of regret at the idea of parting with
wleasure and sorrow were delicately blended
May May. Pleasure and sorrow were delicately blended
in his heart, and they filled the situation with emotional interest. But in May's heart it was all pure sorrow, unmixed with any pleasurable sen
sation at all. He was leaving her, going to Oxford sation at all. "He was leaving her, "beging life;" and in these facts he found compensation for leaving
her. But she only felt that she was losing him her. But she only felt that she was losing him!
For her there was no compensation either in the present or the future. Lionel was going away! With present or the face of a gir's first love, she never once feeling this approaching separation painfully, as she felt it. It was natural, she told herself, that boys should long for and rever in the commence
ment of their enancipation from the trammels ment on boyhood. Especially was it natural tha
their Lionel should do so. Light as her father's rule over the lad was, still it was a cule, and hing was so
born to be "free," if ever human being was so Thus she reasoned and argued against her regret
at his going !and went on regreting it just the at his going, 'and went on regreting it jast the
same. The positive difference which would be necessitated in the household arrangemer ts by loss
of that sum which Liouel represented to her mother of that sum which Liouel represented to her mothen
never occurred to her. She was too young and loving and thoughtless to cumber herself with
domestic cares, or take thought for the morrow of domestic life.
It id not occur to Lionel that he ought to say something more definite than he had said to the
girl, whose whole horizon was darkened by the girl, whose his departure. He had meant loyally
thoughts of
and lovingly; and so, when he kissed her on the and lovingly; and so, when he kissed her ond thought lips, and put a gold ring on her ninger, he thought
he had done all that was needful. When the time came for him to marry-fellows of his "order
married early-he should marry May, of course. married early - ha should marry May, of course.
Meantime it was useless to talk abont it. And May relied unconscionsly upon the fidelity he did not plead a "meanwhile" than he did.

## A Hurried Dinner.

 "Oh, see here, Lizzie, I shan't be home to dinner to-day; there',This speech came from my liege lord, Charley, as he popped his heausinass.
had started to his business
" All right," said I.
The head popped out again, and I added to my-
self: self: get, and I will have a good day to work up stairs." So I cleared away the breakfast, tidied , up the
rooms, and after that took myself upstairs." We had not been keeping house very long, and I made it a rule not to let things become s.
using, but to keep them clean and fresh.
But up stairs there were certain trunks and boxes
that needed renovating some of the summer clothing was to be packed away and the winter wear got out and made ready for use.
I tied a handkerchief over my head to keep out
the dust, pulled trunks and boxes out of the closet, the dust, pulled the set to work.
and sen
I was in the very midst of it, when I heard foot-
steps at the front door, and directly it opened. steps at the front door, and directly it opened.
It was Charley, I knew, for he had a latch-key
and was accustomed to let himself in. I jumped and was ac
"Charley, and not a sign of dinner ?" I exclaimed.
He said he wouldn't come. What can have
He said he wouldn't come. What can have
brought him?" The sound of voices, as I stood listening, assured
ne of what Charley had brought. Visitors, and I in such a plight.
Charley came running up stairs, with his face in a glow.
"Why, why, little woman, what's all this? I
couldn't find you anywhere down stairs. Isn't it couldn't find y,
"Yes, Charley, but you said you were not com.
ing home, and I didn't want anything tor myself." ng home, and I didn't want anything tor myself." " Well, I-wasn't.
met?"
"I don't know, I'm sure."
"It was Liston and his wife. They were on their way to a hotel, , but of course I wouldn't tallow I have no doubt there was a spice of irony in the I have no doubt there was a spice
tone in which I answered, calmly:
"Yes, I see you did. Well I hope you also remembered to stop at the ,
something for them to eat."
"Well, I declare, little woman, I forgot the butcher. But I dare say you can scare up something. Only hurry, for they've only an hour or so iknew it was of no use to say to a man, "Why ag didn't you send me word ?"
It wouldn't teach him to send it next time. So I only said :
"Well, go down and entertain them, and Ill
"ome as soon as I can change my dress." Charley obeyed, and I hurriedly dressed, not in Charley obeyed, and
the pleasantest mood.
They were old friends of Charley's and I had
looked forward to meeting them with pleasure, but looked forward to meeting them with pleasure, but
1 knew Mrs. Liston was quoted as the very pattern of all pattern. housekeepers, never flurried or put ont by anything.
I knew too, that she had means and servants at
ner her command, while Thad neither, and dreaded to
receive her in such a manner, more than 1 could recelve hut as $m$
tell
comprehend.
comprehend.
What with my hasty dressing, I knew my cheeks
What with my hasty dressing, I knew my cheeks
were flushed, and my hair tumbled. But it was were fat too, wait, so I ran down, and stood fire
too late
during the introductions as well as I could, quite during the introductions as well as I could quite conssious that instead of appearing my could see.
appearing my worst, as even Charley coll As soon as possible I excused myself, saying, by way of apology, that I was not ex
"Pray, don't put yourself to any trouble," said
Mrs. Liston, politely.
"It's no trouble at all," I as politely replied, feel-
ing as I went to the kitchen, that that small speech
ing as I went to the kitchen, that that small speech
was at least a fib, for I was almost at my wits end was at least a fib, for
to know what to do.

A happy thought struck me !
Oysters!
A regular dinner was not to be thought of, but most people were very fond of oysters. I I
Charley was, and I could prepare them well.
They were to be had opposite, and I was not ong in getting them either.
I bethought myself of half a cake which I luckily vould answer for dessert, with silver cake basket, bought with the oysters.
Really, 1 shald not do so badly for an im-
romptu occasion. My spirits rose as I set the table, adorning it My spirits rose as
with a cluster of resh chysanthemums, and with
lass and siver I possessed, so that it looked very glass and silver
That, at least, Mrs. Liston could not find any ault with, even if she were disposed to do so Charley had said hurry, and hurry I did. As
speedily as possible I had everything ready on the fable and the dessert arranged on a shelf by the open pantry window, so that I could put it on at once.
Tired,
Tired, flushed, nervous and doing my best not
to look cross, I went to the parlor, where they were chatting gayly, and announced dinner.
Then that awkward Charley must put his foot into it, man-fashion, by saying
"My little wife is a famous cook. I hope you
have a good appetit
"ndeed I have. Traveling alway
I made some laughing reply, and led the way to my little dinner.
Ah, oysters !-my favorites," said Mr. Liston. I was glad to hear that, but my heart sank when
Mrs. Liston declined to take any, saying she never ate them.
"I am so sorry." I said, tlushing. "But I will poach you a couple of eggs."
"By no means," she said, pleasantly. "I shall coffee.,"
And when I insisted, she was obliged to say that she never ate eggs.
I was at a loss what to propose then, so I ceased
to press the matter. Meanwhile I had poured the to press
coffee.
I hand
I handed the cups, but I knew by the aroma
which reached my nostrils, that, though tolerable it was not nearly as good as usual, for in my haste had made it too weak.
I was specially mortified at this, as I prided "I won't apologize," I thought proudly. But my pride fell the next instant, when Charley,
having tasted his, made a queer face, and then tasted " ${ }^{\text {a Wh }}$
"Why, Lizzie, what ails your coffee?" he asked. Liston said, kindly
"Tat, tut, there are, worse things than weak
Of course, as I had no
remove the, platess and bring on the dessert myself. That, at least, was nice. But when I went int
he pantry I barely suppressed a scream of horror Mre pantry I Ian's big gray cat had jumped into the window, and was contentedly munching my cake.
With frantic haste I dashed her off and rescued what she had left.
Only six thin little slices. They looked so forlorn in the large basket that 1 I consigned them to a small glass dish and with out a word of apology put them uponed I would apologize no more.
The apples were
as well as we could.
For my sake Charley tried to appear very gay,
but I saw he was deeply mortified, and I did not pity him half as much as I might.
I think I was quite excusable when I said to him
after that dreadful dinner was over and our guest
were gone: ${ }^{\text {C Charle }}$, without letting me know first, flll never forgive you. And lill order dinner from the
restaurant, and leave you the bill to pay."
But that stupid Charley " can't see why it need
wôrry me."

## The Next Best Thing.

"Mr. Moncton," said my grandmother, "I " 0 , send Louisa round to pick up some," said "O, send Louisa round to pick up some, said "But she has picked up all she can find." "Then let her break up some old stuff." "But she has broken up everything already." " 0 !, well, then, do the next best thing- I must be off,", said the farmerr; and off he went, whistling
on his way, and no doubt wondering in his heart
what the next best thing would turn out to be. what the next best thing would turn out to be. Noon came, and with it came my grandfather
and four hungry laborers. My grandmother stood in the kitchen, spinning on her great wheel, and
singing singing a pleasant little ditty; Louisa was scouring
in the back room, and the cat purring on the hearth before a black and fireless chimney, while the table sat in the middle of the room ready for dinner, with empty dishes.
"We Well, wife, here we are," said my grandfather, " so I
"So I see," said she placidly. "Have you had "Why, "o se sue But where
"In the pot on the doorstep. Won't you see if it is done ?
And on the doorstep, to be sure, sat the great iron pot, nicely covered, but not looking particu-
larly steamy larly steamy. My grandfather raised the cover,
and there lay all the ingredients of a nice boiled dinner-everything prepared in the nicest manner, and all the vegetables as raw as they had ever
been. My grandfather stared, and my grandbeen. My grandiather stared, and my grand-
mother joined another roll to the yarn upon her mother jond began another verse of her song.
distaff, and
"Why, woman, what does this mean?", "Why, woman, what does this mean?" began
my grandfather indignañtly. "This dinner isn't
cooked at all!" my grandfathe
cooked at all!
""
"Dear me, is it not? Why it has set in the sun
his four hours," "Set in the sun!
"Yes, you told me to try the next best thing to Yaving, you tire, and I me thounght setting my dinner in
the sun was about that." the sun was about that.
My grandfather stood doubtful for a moment
but finally his sense of humor overcame his sense bot tinally his sense of humor overcame his sense
of injury, and he laughed aloud. Then he picked of injury, and he said: "Come, boys, we might as
up his hat and said
well start or the woods. We shall have no dinner well start for the woods. We shat,
till we have earned it, I perceive."
" Won't you have some bread and cheese before you go?" asked my grand mother, generous in hon victory, a
the day.

## How Silver Thimbles are Made.

The manufacture of silver thimbles is very
The simple, but singularly interesting. Coin ailve coin
mostly used, and is obtained by parchasing dollars. The first operation strikes a novice as
almost wicked, for it is nothing else than putting a lot of bright silver dollars, fresh from the mint, into dirty crucibles, and melting them up int
solid ingots. These are rolled into the required solid ingots. These are rolled into circular pieces
thickness, and cut by a stamp into of the required size.
A solid metal bar, of the size of the inside of the intended thimble, moved by powerful machinery
up and down in a bottomless mould of the outside of the thimble, bends the circular disks into the thimble shape as fast as they can be placed under
the descending bar. Once in shape, the work of brightening, polishing and decorating is done upon lathe. First, the blank form is fitted with rapidy revolving rod. A shige from the end, another
chisel takes a thin shaving does the
the rim.
A round steel rod, dipped in oil and pressed upon the surface, gives it a lustrons polish. Then a rnament, held against the revolving blank, prints that ornament just outside the rim. A second tre, while a third wheel with sharp points makes the indention on the iower halin and end oolished
thimble. The inside is brightened and phe. in a similar way, the thimble being held on a a ${ }^{\text {te. }}$
volving mould. oil the completed thimbles in soapsuds to remove
he oil, brush them up, and pack them for the boil the
the oil, b
trade.

## 

## My Dear Nieces,-I have been hard at worl

 making a little window garden, and I wonder whether some of you might not like to do like wise. It is so nice in the middle of winter to have a little green spot, where on9 can dig and rake (though it be only with a fork), and breathe in spring-ilie odors fron we carth and green thing growing, and when they bloom every lower seenlike a part of summer : We must fist get a yood. sized strong bix, and bore a dozen small holes through the botton of it; plase this in another bor, such as a tea-chest, contraning a little oarth Tli is will mal $c$ a stand for it, and allow the upper l.x to be wateried freoly, without any danger of
the cartti yetting mouldy and the box too damp as'any excess of water-that is, more than the soil neeels - will drip throngh into the lower box and i, absorber by the dry sand it contains. Fill th plant box first with about an inch of pevtes an plants yon wish to trausplunt, and fill up with rich plants yon wish to traupphat, and fin up with rich
light earth. Place your garden in a sunny win dow, in a moderately warm room. There are many vays of ornamenting these boxes. A very pretty
cffiect is made by covering the sides with dried effect is mate by covering the sides with dried morses, stuck on closely, so that the plants seem
rising from a bank of moss. Another way is to paint your box in Japanesese style, in the way we explained last month. As to the deviec of plants they are innumerable. Perhaps the eastest raized by planting in October and beening them in a dry room, covercod over with slates, so as to ex a dry room, coverecu over with slates, so as to ex-
clude all llght. Just water enough to keep then from drying ap, and as soon as the first leave show remove them to your winter garden. Abou January you will be rewarded with a profusion of
flowers.
Minvie Mar.

Answers to Inquirers.
A. J. W., Lakefield.-To mix carbolic acid with
whitewash, put four ounces in each pail of white white
wash.
James L - By all means go to bed early, and rise carly to do your lessons. Never study late at
night when yon can get up early in the morning.
M. Quicker--It would be improper indeed fo a young lady to make a matrimonial proposal to
gentleman, however marked his attentions may be to her. If these attentions have been paii for length of time, and undusyusedy, betore the
family and riends of the young lady, her father or amily and frients of the young lally, her father or
some near relative shoulili ask liim to explain his some, near
intentions.
ind
Bov.-To bo constuntly moistening the adhesive
portions of postance stain

## portions of postage tainly unwhillessone.

R. C. Kingston- " "cin yon give directions
how to lo bauch almonds, and obliye a correspon
dent dent ?", Pace the almonls inc olid water, over a
fire ; let them remain until the water is st boilia
 and throw into eold water. Remove the skins
and dry the almonds with a cloth befroe using or, when they are to be pounded for macaroons meringues, \&.c. . they should be
or three days
a
into paste to into paste to prevent insects from eating wal
paper to get the laste. Use oil of cloves, alum or paper to get $t$,
carbolic acid.
Polonais
polunaze.
Petron - wis parts of petroleum and castor oil make the very best application for any kind of leather, especially for outdoor service. This combiration is ver softening, penetrates rapilly, is antiseptic, doe
not gum, never becones rancid as will animal faus nond mice will not touch a harness to which the petroleum mixture has been applied. $I$ have tried
many- this is the hest.
 hagen, a chestnut horse which he had ridien
the battle of Toulouse, from 4 in the morning till 112 at night of the day of the battle of Waterloo
Copenhagen died blind in 1835, aged twenty.eight ears and lies buried within a ring fence at Years, and hes,"
ElLA asks for a recipe for polishing silver or
in. sprinkle freell the best kind of dry zino No. 1 , ench as painters une-after rubbing it fine of an old woollen stocking will answer); then rub Che silver, ete., with the olloth; then brush off with
tissue paper, or any clean soft cloth or paper, and assue paper, or any clean sw.
S. A. R., Tallahassee, Fla - " Will some of your trom dampness) out of kid ripo fores taking spots lean and dye kid gloves, so as to have them soft ? poots caused by perspiration cannot be entirely releaned with but liteses but troble in in naphthay 11-pint will wash three or four pairs. Pat the he hands and dip them in, rnbbing together with he same motion as in washing the hands; whe
Llean rub dry with a fresh towel. This will take
Ler bit a short time, as the naphtha quickly evapo Heses. Sone wash gloves in naphtha the same
they would wash a handkerchief, anter wards hang ing them up to dry, but the process given is pre
ierable, as
by drying them on the hands they ierable, as hy drying them on the hands they
etain their shape. It does not pay to dye kid gloves, when done by
them smewhat stiff.

## recipes.

Here is a reipe for "Angel Food," the delicions White cake which is becoming so popular. In should be :-The white of eleven eggs, one cup of flour after sifting, one teaspoonful of oream tartar.
Sift the flour and cream tartar four times.
Beat the eggs to a stiff froth, and then beat in one and one-halif cups of granulated sugar and a teagpoonful
of vanilla. Add the flour, and beat lightly but thoroughly. Bake in an ungreased pan, slowly,
forty giny
Th forty minutes. The pan should have a tin strip
projecting above each corner, in order that whe it is turned over to cool the air may circulat
freely nider it should be a new one. An ordinary pan will
answer, if it be set up on the edges of two other pans to cool seautifully in an earthen ware dish It is necessary that the oven should be a slow one if it is very hot the door may
cake should rise gradually.

Barberies may be put in jars in bunches, and
overed with cold vinegar.
They make a ver covered with cold vinegar. They make a, very
pretty garnish for the edge of dishes, and also pretty garnish for the edge of dishes, and als
make a cooling pleasant dish for a fererist make a
patient.
wasturtions.
After the flower has gone off, take the green
seeds that remain; pick off the stems, and put them in sufficient cold vinegar to cover them. They will keep good a year, and may be used as
pickle, or instead of capers for boiled mutton.
tavgh steak.
Instead of pounding cut it with a sharp knife,
making fine parallel cuts on either side until every part has been crossed and recrossed. Press it to. gether and lay on a wire broiler. Hold close to hie fire uutil each side is seared to retain the
nice, then turn and tend with the utmost care juice, then turn and tend with the a tmost care
Place the steak upon a hot platter, and season with iace the steak appon and palt,
macaroni and chesse.
Take one.quarter of a pound of macaroni, three
ounces of dry
grated d cheese, one-half ounce sunces of dry grated cheese, one-half ounce of
butter, one:half pint of milk, one egg, one gill of

 cola water and boil firteen minutes; then turn the
vater off, add the milk, and boil half an hour longer. When boiled beat the cream well in in
bowl, ald the egg, and beat it well also, then ad the pepper and salt-plenty of pepper and very
little salt (the pepper helps digestion); add also little salat (the pepper helps digestion); add alaso
the cayenne pepper, take two ounces of the hese
and one ounce of butter, and put it in with the macaron and mix well together; pour into $d$ dee
dish; sprinkle over the top the rest of the chees add a a little more pepper and salt, divide into piecos the half.ounce of butter which remains o
the top and brown in the porato purs
Take cold roast meat-beef, mutton, or veal
 in likea; boil and mash some potatoos; make then into a paste with an eyg, and roll out, redging
with tlourr; cut round with a saucerc; put some on the seasoned meat upon one.half, and ford the
other like a puff; pinch neatly, and fry a little
brown.

A very nice way to coock sansiges is to boil then first in water in a frying-pan; then encasing then in a ocvering of pain piecrust,
they are done. Yon may make a thay unt if yoil line, out of the water they were hoiled in, ad ying
intowned flour, a small piece of butter and a d little browned fiorr, a small piece of butte
summer savory.
according to the testimony of an experienced phy sician, is a most useful compound, not only in
infants, but at a a later period of life, when the functions of digestion and assimilation have been
seriously impaired. A tumbler of milk, to which four tablespoonfuls of lime-water have been addei
will agree with any person even when other will agree with any person, even when other fiod
is oppressive and fails to afford nourishment.
stuffed tomators.
Take a dozen firm, well-shaped tomatoes Have
a pound of cold roast beef, or the same of coll steak, or if you use raw meat it is just as yood
chop an onion with a tablespoonful of parsley; add
 white pepper; pound up six soda crackerss, fry the
onion thoroughly in a tablespoonful of butter, to which, when ooked, add the meat, which has also
been , been divided; let tit all cook thoroughly with the
onion and parsley: take the tomatoes, cut off the
teen stem end, which do not use; remove the insi.ie of
the tomat
 tomatoes, which are to be placed on a bake-pan,
and bake for one hour in a moderate oven.

## Helped by a Crow

A little boy in New Hampshire had the bad told him to do anything he did not like malso of leaving things, when he was through playing without ever thinking of the maxim, 'A place for very
He was very fond of pets. One day he fond a
wee crow. Frank's father cut the crow's tongue so that he could be taught to tall, and very soon he had learned to say simple worls. He would
call "Ida" and "Frank" as plainly as the children. There were some pear trees in the garden, back
of the house, and one day Crow, as they called orime house, and one day Crow, as they called
him, was seen picking off the pears. When told to come de whe obea, but the next time, instead
of coming when he was called, he turned his head on one side, and saia, "'" won't.".
"Crow, come down," was the orler:
"I "I wow, come downe he answered again.
"I won't" he answered again.
Frauk heard him, and hought, "Do I answer
my parents in that way?" He sat thinking and my parents in that way?" He sat thinking;
the third time the answer came, "I wont." One day grandpa missed his knife. He seareiein
all round, but could not find it. He thought Frank must have taken it; but Frank knew nothing about it. A few days after, the gimlet was miss
ing, and Frank was ourreed with hosing that too The next day, while they were at dinner, his
motherst thimble was tale "I must find the thief" said grand to the door, and saw crow coming across the field "Perhaps he is the thief," said he, "TIll track
him." So he followed Craw to him.", So he followed Crow to a hole in a
stump, and there, sure enough, not only the
thimble, but the stump; , and there, sure enough, not only the
thimbt, but the gimlet, knife and various other
articles were found.
Frank was delighted to have his honesty proved.
"Dear old Crow,' he said, taking him up and pat. "Dear old crow, he said, taking him up and pat
ting him, "You have taught me two good lesons one is to be careful what $I$ say, and anotiter to put,
a thing in its plave when I Mave done usiug it., ${ }^{a}$ thing in its pla

## On Doing Withont.

Oh, Tom, 1've just seen such a love of a bonnet :
Pale blue, and tear-roses, half blown, and such I'm sure that some poet could write a sweet sonnet thout it, when over-well, somebody's face.
The cost? Thirty dollars. You know it's imp orted,
The fashion, you see, dear, has but just come out, The fashion, you see, dear, has but just come out,
I tried it on, Tom, and oh! I was transported. I tried it on, , om, and oh! I was transported.
Can't have it? Now, Tom, why? Can't I do
without?

Let's see : here's the gas bill, the milk, and the
grocers; ; hack wants his new shoos, and the butcher's
And the dress-maker-- There, I sec you wish to know, Sir,
How much it all makes. Well, of course, fortytwo
Have I lonnets up stairs? Yes, Worn out? No, of conrse not.
Be it There ! I can't have it ; to argue's no use.
Well. Tom, then that tab'e, all gilding and what We suw at the auction. Don't scowl so, you
The table is lovely. Im sure that we need it;
The parlor, you know, dear, is really guite bare.
Twenty dollars: tis nothing; you never will miss
it.
Why, Thomes,
Im for a swear
$\mathrm{Ver}_{\text {scolding. }}$ well, Sir ; there's sure'y no use of your scolking.
The gat gill, I hate it; the butcher still more. Youre always reminding me-Hark ! did the
ring
the
What's in it? No matter. I'll sec for myself
then. cars? what a story : There, now, it is open. " Mr. Smith, for tobacco, to So and-so debtor." Five hundred cigars. Fifty dollars, no donbt. Now, then
Preacth poor. Now that bonnet I slua'n't do
without.

## Kecping Winter Fruits.

 Apples should be gathered as late as possible le-ore cold weather, and should be picked with the fore cold wence oonadness. Pack carefully in a
hand to ensure
c'ean, tight flour barrel, shake down ently and c'ean, tight flour barrel, shake down geat is well
head up; phace in a conl, shardy shed that is will head up; place in a cono, shaty side of a building,
open to the air, or on tho north side of
and cover np the top with loards. Lay the barrels
 on their sides on rails, aep out of doors as late as
the top with boards. Keep
possible and then renove to a cool, dry cellar, phere air can be admitted on pleasant days. Here
when
and the the barrels should be laid on their sides and on rails.
Pears shouid be allowed to hang on the trees
until frosty nights, when they should be carefully until frosty nights, when they should in capernly hand picke iand wrapped separately packed in shaliow boxes, where will probably rot.
examined, for sone of them Keep covered to prevent shriveling. Pace in bring
cool, dry eellar, and as they begin to ripen bre into a warm room and wrap in wooll
their flavor will be highly increased.
Grapes can be kept well into the winter if care is exercised. Choose the late ripening sorts, such as Clinton, Catawba, Diana, Isabella, ecc.
the finest and most matured bunches, careflly cutting out the decayed grapes, if any, being care
ful not to disturb the bloom; after sweating a few ful not to dieturb the a shelf in a cool place, pack in baked saw days or a shton batting, one layer of saw-dust and
dust or con
one layer of grapes, aud so on; keep at an even one layer of grapes, aud so on, keep at an even
temperature and cool as possible, at abont freezing temperature and cool as possible, at
point.-[Lake View Horticulturist.

Shun the inquisitive, for thou wilt be sure to find him leaky; open ears do not thee.

## Heart-Rending Case-An Innocent Creeds of the Bells.

 Man to be Hung.From the most reliable reports we have as yet been able to procure, we glean the following dreadal account :-A young, lusty, stont, quarrelsome man named Cooke had, uninvited, entered the house of a peaceefu, caln, the township of Nulmer. In the prese of Monroe Cooke takes improper Tiber wies Monses wife, and is remonstrated with. Instead of leaving the house, as he should have done, he prepares in a most violent manner to fight Monroe. The latter being weak, to defend himself and possibly his wife's honor, takes his gnn, and (perhaps accidentally) shoots Conke and kills him. Mr. Monroe immediately went to thic house of Cooke's friend ane went to the legal done; the honorale himself up, relying on the justice of the law of the land (the man's conscience in this act, being a calm man, must have directed him aright; had he the least fear of justice not being done him, he would have fled).
The case was tried at the Simcoe Assizes, held in Barrie on the 26th of September, and although it was shown by the eridence that a great deal of provocation had been given, yet retarned in verdict of guilty of murder; they, heverer strongly reconmed the prisoner to be hang on the 17th of Octoler, and further informed the poor idd, peaceful, injured man that he could hold out no hote for Mercy We know none of these parties. We metely lean our information as yet from such reports as whave been able to procure. In this city there was one man we think undeservedly hung-merely because his whole mind had been ton devotedy wrapped up in the faur lady of his choice. will give further accounts of both ens. We by no means justify any one imes when law in his own hamen, It is very diticult to such a course is pernited. raw the defining line extremely variable. If his poor man is hung it will be a heavy blow against the linniss of matrimony, and an encourage nent to immorality and inpravity. It will tend to make a man's honse and home less privat., con sequently less end aring ath les chaste. We honp and trust that every mulister of the dioper near Barrie will sim and poth petition for the reve of the sentence passer. We further trust that our law that has already we believe, unjustly sent one innocêht, harmless, honest man out of this world.
 preserving oranges and lemons in warm wather
'Examine the fruits and reject any which are in "Examine the fruits and reject any Which are in dre sightest degres hruised or them in loxes or
dry, carefully, and then pack them
barrels, in dyy sawdust (which is maie from wool barrels, in dry sawdust, (which is mate from woot
as free as possibl. from resin), so that they ion not
Keep them in a cool, dark thuch each other. Keep them in a cool, dark
hace. They can be buried in dry sand, but in this case should dirst be enveloped in tine tissue paper.
If it is not of importance to preserve their exter if it is not of mporta dipped into melted paratine,
nal looks, they may be
which thoroughly potects them from change. which thoroughly potectst them from change. Of
course they would not be generally saleable in this course, they would not be generaly sateable in this way tor
condition, but might be preserved home use, or for use in large hospitals, et
Another, and perhaps a better way, is to cover
them in any kind of clean vessel, with clear sour them in any kind of clean vessel, with clear sour
milk, and lemons will keep fit for use all summer. milk, and lemons will eeep fit for we all summer.
The flavor is slightly changed, but in every other


Creeds of the Bells.
s read by mes. scotr siddons.
The poem was written by Mr. G. W. Bungay The notes as to how it should be read are by Mr. tionists."

How sweet the Chime of the Sabl th bells In tones that floed in music tells As soft as song, as pure as praye And I will put in simple rhyme The language of the golden chine.
Ny happy heart with rapture swell
licesponsive to the bells- sweet ly
"In deeds of love excel-excel."
Chimed ont from ivied towers a be "This is the church not built on sand Emblem of one not built with hands; Come worship here-come worshin here.
In ritual and faith excel." In ritual and faithe excel.
(2) Oh heed the ancient landmarl: well," (!) On heed the ancient landmarls $w$.
III solemn tones exclaimed the bell.
". "No progress made by mortal mon Can change the just etermal ple"l
Do not invoke the avenging rod: Come here and learn the way to God. Say to the world farevell, farerelel
Pealed out the Presbyterian bell
(3) "Oh swell ye cleansing waters, su tll," In mellow tones rang out a bell,
Thonsh faith alone in C Man must be plunged beneath the $r$, To show the woricis unfaltering fait "Oh, well ye rising waters, surell", T'ealed out the clcar-toned Baptist bell (5) "Not faith alone, but works as weil, Mast test the soul," said a soft hell, And work your way along the road, With faith in (iod and faith in man, And hope in Christ where hope began,
Do well do well do well-do well," I'eved forth the U nitarian bell.
(G) "In after life there is no hell,"" In rapture rang a cheerfult tell; Where arge's wait to facd tho way, There future life; bo just and right. Xo hell - no hell- no hell-no hell,
Kang out the Universalist bell.
5) To all the truth we tell-we tell,"
"Cume all ye weary wand rers, see
 De enved and praike the Lord.
saivations free we tell-we tell."

## shoutcd the Methodii tic bell

(1) This tine to ter sung like a hime of bells; the
second line is only real, hat the succeding second line is only real, hut the succeeding,
five linus to "excel" slould again he chimed, varying the chimes on cach two lines. If the reater cannot sing the chimes, the lines may may be read in a pure high ton
(2) Rend in imitation of the tolling of a bell, deep
aud siow. I well on the Italic words like a and siow.
pealisg lech.
(3) Rear like No. 2, but higher pitch.
(4) Rise higher on this hace and chant "swell," Same as No. : , but onftor tone. Swell with
graater power on ".1), weil," \&c., giving a
 (6) Loud and clear toll of a bell ; clanting "No (5) Chant loud and clear. Rise higer on "Come all," "ce. Chant load and rapid "Repent,"
\&c. The last line is to be read. " "hisw dhy you like the hyyns?" asked Charlen of his sity cousin as they left the church on sun
day. "One of them was just splendid," replied she with enthusiasm. "Ah "! which one ?", ". The one in the next pew with llack, cunly hair and
such killing black eyes. (h)! Ithink he was the most fascinating "him of all:" think he was the farther.

Home.
Home is the one place in all this world where hearts are sure of each other. It is the place of ask ofe. It is the place where we tear off that he world forces us to wear in self-defence, and where we pour out the unreserved communication of full and confiding hearts. It is the spot where expressions of tenderness gush out without any sensation of awkwardness, and without any dread
of ridicule. Let a man travel where he will, home the place to which "his heart untrammelled fondly turns."

## Window-Gardening.

It is very pleasant to keep a few plants in the window, especially during the dreary months of winter, that one may have something bright and beautiful to look at-some reminder of sunny days and smiling blossoms. Plants thrive best in the south or east window, our days in winter being
short. Plants need light; and as we can only give them at best a few hours of light, it is only give that there should be as much warmth and bright ness in it as can possibly be furnished. In fact, plants are like ourselves: they need air, light, warmth and drink, and if they are arnished these they will live and grow. The room in which they are kept should be one which is not subected to great variation of tempera ure. The temperature should not be less than 10 in the night, and specially while the sun is shini in the room. Arrangements should be made for giving fresh air to the plants every day. The most conve nient way is to have the upper sash movable, and let it down at the top when we wish to give fresh air, taking care that the plants are not al. lowed to stand in a drats of cold air A plant conined in the house withick and feeble as will the clitd who is never allowed to run outdoors. The leaves of plants need washing occasionally in order to remove the dust that gathers on them and fills $u_{p}$ the pores. When watering keep the earth
moderately moist; water thoroughly but not too frequently. Study the natural habits of the plant ou are growing, and water accordingly. It is a tempt too many at once; our most successful ama teur florists seldom have more than a half-doen varieties, as one plant properly looked 'after is better than a dozen neglected. The Heliotrope is a great favorite; the Hyacinth makes a beautiful window-plant, grown either in a pot or in water the ivy may be grown in any part of the room Zonal and Sweet-scented Geraniums make good
window-plants, especially if they be provided with window-plants, especially if they be provided with
plenty of fresh air ; Roses, especially the teapented, a reares, especially the tea of Mignonette, which costs lut a few cents is excellent window ornament
We present to our readers the above cut show winter flowering.

No farmer can expend $\$ 1$ in any way that will wife and his family as by subscribing to the $F$, his re's advocate and hcme Magazine. Every The seedy past of a fig is an effective applica-
tion for gum boils.

## September

The goiden rod is yellow The corn is turning brown The trees in apple orchards
With fruit are bending down.

The gentian's bluest fringes
Are curling in the sun: In dusty pods the milkweed
Its hidden silk has spuu.

The sedges flaunt their harvest, In every meadow nook;
And asters by the brook-side And asters by the brook-side
Make asters by the brook.

From dewy lanes at morning At noon the roads all flutter ris With jellow butterflies
By all these lovely tokens With sptember's best of weather

But none of all this beauty
Is unto me the secret Which makes September fair.
'Tis a thing which I remember;
To name it thrills me yet; One day of one Septemb

window-gardeninct

## Homely Girls.

"How did that homely woman contrive to get .aned is not unfrequently remasbend regard good domestic creature whom her husband regards ses something better than beauty
Pretty girls who are vain of their charms are and a consciousness of the fact that of this kind ; liness are often left to pine upon the stem while the weeds of homeliness go off readily, is no doubt in many cases at the bottom of the sneering question. The truth is, that most men prefer homeli ness and amiability to beauty and caprice. Hand-
some women are sometimes very hard to please They are apt to over-value themselves, and in all reasonable offers in the marriage market out of plain sisters, on the contrary, aware of their per sonal deficiencies, generally lay themselves out to produce an agreeable impression, and in most in-
stances succeed. paragons with princely fortunes, but are willing to take anything respectable and loveworthy that Providence may throw in their way. The rock
ahead of your haughty Junos and coquettish Hebes is fastidiousness. They reject and reject until nobody cares to woo them. Men don't like to be
suubbed nor to be trifled with-a lesson that thousands of pretty women learn too late.
Mrs. Hannah More, a very excellent and pious person, who knew whereot she wrote, recommends the first good, sensible lover who falls in her way. But ladies whose mirrors, aided by the glamour of vanity assure them that they were born
for conguest, pay no heed to this sort
of advice. lt is a noteworthy fact of advice. It is a noteworthy fact
that homely girls generally get betthat homely girls generally get bet-
ter husbands than fall to the lot of
their fairer sisters. Men who are heir fairer sisters. Men who are igure, do not as a rule amount to
nuch. The practical, useful, thoughtful portion of mankind is wisely con
tent with unpretending excellence.

## Mixed Pickles.

 If your sweet cake has too large holes in itAbite" from horse-radish tas pleasant "bite" from horse-radish as prepared Equal parts of tar, molasses and vinegar boiled for two hours in a
stone vessel, is an excellent cough store vessel, ins an excellent cough
syrup for long standing coughs as
well as for well as for more recent ones.
TuE memory of early happiness is a treasure pure, simple, earnest joys become wells to draw pure, simple, earnest joys become wells to draw
from whenever we sit down in thirst and weariness by the dusty highway of life. Of this one
good the world can never cheat us. The sunshine good the world can never cheat us. The sunshine
of those days reaches across our little stretch of
life, and ningles its rays. life, and mingles its rays with those which beam
from the heaven of from the heaven of our hope. The actual present
of adult life, and the materials which enter into it, are made up of reminiscence more than we gen
erally suppose. We ruminate, like the kine We lay up in the receptacles of memory abund appropriate to our refreshment and nourishment and this process of reminiscence-of living over
again-grows upon us as we grow into years, till it becomes our all. Exhas we grow into years, til
Eource but to dwell. source but to dwell upon its old poway and its old
achievements. How sad he is who cand back to his childhood without a shudder; who can never recall a period when his life was filled with
sweet and simple satisfaction! Ccmpassion is an emotion which we should
never be ashamed of. Graceful is the tear of sym never be ashamed of. Graceful is the tear of sym.
pathy, particularly in youth, and the heart that pathy, particularly in youth, and the heart that
melts at the tale of woe. We should not permit
ease and indulgence to contract our affections ease and indulgence to contract our affections, and
warp us into a selfish enjoyment ; but we should warp us into a selfish enjoyment; but we should
accustom ourselves to think of the distresses of
humar life, of the solitary cotta human life, of the solitary cottage, the dying pa-
rent, and the weping orphan, Nor rent, and the weeping orphan, Nor ought we
ever to sport with pain and distress in any of our ever to sport with pain and distress in any of our
amusements, or treat even the meanest insect
with wanton cruelty. amusements, or treat
with wanton cruelty.

Do not brush black silk dresses, but clean them
ith a soft flannel cloth. with a soft flannel cloth.

## Love Gifts.

Love gifts should be of little intrinsic value; they should owe their preciousness to the hand
that tives. The token of love should not, by itp beauty or costliness, distract the attention for one noment from the meaning of the gift-heart dumb. What are the objects that have been dazed upon and kissed and wept over as priceless reasures? A "pretty ring with a posy,"" a glove,
true-love knot in hair or ribbon, or, as likely as a true-love knot in hair or ribbon, or, as likely as
not, a few faded flowers; but is there one who has
loved who cannot recall to mind the throb of ecstacy, the glow of paradisical bliss, with which he first love-gift was received-the silent messener bringing the full assurance of love's return? The youth who has just obtained a lock of hair or
simple rosebud, maybe from his mistress' hand, simple rosebud, maybe from his mistress hand,
iven after much pleading, would he part with it
or a rose of rubies and gold? Would yonder girl or a rose of rubies and gold ? Would yonder girl
as she sits in her chamber alone, turning on her she sits in her chamber alone, turning on her
nger the slight ring that binds her to him who as won her maidentroth, charge it for a circlet
$\qquad$
An Irishman quarrelling with an Englishman,
told him if he didn't hold his tongue he would break his impenetrable head and let the brains out of his empty skull.
adacte Toms 刃erartment.

The Princess Louise.
We know that all of our nephews and nieces have not had the opportunity that we have had o you, like everybody else, would alady have em braced the opportunity of so doing. As we have had that pleasure, we will here have a little chat with you about her.
We have heard that she kept herself close an eserved. We wish to dispel that idea from your hind. She has made Toronto her home for the ernor's residence while there. The citizens of
Toronto did all they could to make everything leasant and agreeable for her and the Marcuis Decorations, illuminations, public demonstrations
addresses, a grand ball, etc., were in order. She addresses, a grand ball, etc., were in order.
was greeted with cheers from thousands wherever
she went. Many people who live hundreds of he went. Many people who live hundreds of
niles from Toronto went to that city for the purpose of seeing her. We know of one party in par ticular who remained three days in order that they to their home fully satisfied. People were crowde and ran to dufferent places where it was suppose hey could get a good view of her as she passe y in the carriage. The excitement was greater sion in that city. The Princess, instead of being secluded as reported, was to be seen openly and
unveiled; and when in Toronto was in all parts of the Industrial Exhibition, and was there many days. All had a fair opportunity of seeing her. One day she was with the Marquis reviewing
the troops. Here she appeared on horseback, and showed that she was a good horsewoman, for she galloped about fearlessly and appeared arlor. She dresses very plain and neat, appearing sometimes in light blue or bronze-green, drab or black silk,
etc. Her dresses are usually made without the long trails and gevgaws I have often seen on preleng trains and ladies. When she visited Bishop Strach.
tending lon an's School in Toronto she wore a plain cotton
dress and cotton gloves. Some frivolous ladies dress and cotton gloves.
remarked that to dress in frivolous ladies
such material was degrading to one in her position, especially when chime in with these ladies ant call such dressing absurd, we think it shows the best of judgment to appear in plain and sensible atere. hoes this not teach those schoolgirls-far better than a paid in
structor could tedch them-that a cotton dress and cotton gloves, if good enough for our Princess to woar, are their means and position? It is not dress that makes a princesss; it is not dress that makes a lady
-it is sound sense and judgment, and this we all -it is sound sense and judgment, and this we an
ought te be taught. Let us apply this lesson to
ourselves.
Some of you will probably ask, "Is she pretty",
Having seen her, we can hardly say that she is, in the sense that term is generaliy applied, although many do, for tastes and opinions differ. We con
sider that she deserves far higher encomiums than sider that she deserves far higher encomiums than
either pretty or handsome. She has what I should term a really good floral eye-discerning, mild, pleasing, and dovoid of that flippant, vain, dis.
daainful, coquettish, cunning and haughty cast, too dainful, coquettish, cunning and haughty cast, too
often seen in the eyes of those who are called oten seen in
pretty women. She has a very pleasant-looking
mouth, yet firm and decisive; a good forehead, mouth, yet firm and decisive; a good forehead,
and a sensible nose-not too thin or sharp. In and a sensible nose-not too thin or sharp. Mr
stature she is rather below the average, but more
satust robust than the majority of women
good arm and chest, and brown hair.
She acts very courteously and respectfully to her
subjects ; in fact, we think her continual tearing subjects; in fact, we think her continual earing
must be irksome, and the oft-occurring demonstra tions and the routine connecte us, must begin to
though grand and imposing to us, though grand and imposing to us, must
be tiresome to her, as our beloved Princess has more care, more duties, and more constant la hor,
than ladies in private lifc, which we hope she may than ladies in private life, which we hope she may
not find too heavy to bear. We much regret that no proper reception was accorded her in this city
We believe it was, all things considered, th We believe it was, all things considered, the
worst reception tendered the Princess and the worst reception tendered the Princess and the
Marquis on this continent. This did not ooccur
from the from any disrespect or disloyalty, for there loyal
not exist, either in Canada or Britain, a more loya
class of
and vicinity. There has been some misunder standing or bad management; at least, it ca While at the Toronto Exhibition, Mr. Agent for the Waterloo Yeast Co., was visited by he royal party. He not only praised his ware
but offered a slice of bread made with the Water oo Yeast to the Princess. She took it and ensuired if it was made from Canadian flour. She as answered in the aft.
bread tasted very sweet.
The Governor and Princess had been invited to attend during the holding of the Western Fair
 expectancy had taken hold of the minds of the
nhalitants as to the glorious time they would have But a telegram from Major DeWinton, the
havernor-Generals secretary, announced that the royal party would arrive two weeks prior to the this would be a heavy blow against the success of the much-prized Western Fair, as a visit at that people could aftord either the time or means to people could afford either the time or means t
attend both. The Mayor of the city informed Major De Winton that the inhabitants would
rather have the visit postponed. The Major replied rather have the visit postponed. The Major reppied
they must come. The citizens, feeling that aloss they must come. The citizens, feeling that alos
must be withstood, were not unanimous in making large expenditures. Some of the decorations erec
ted were so infirm that they were ordered to be ted were so infirm that they were ordered to
pulled down before the Royal party arrived, which was at 2 o'clock $p$. m. They left at $9 \mathrm{a} . \mathrm{m}$. the ollowing morning. The managementwas
bungle as could possibly be; the presentation was a mere run by of every lady that chose, with a nod nd a bob like a flock of sheep going over a rail.
We much regret that His Excellency has not had a proper opportunity of yet seeing the display of oproper opportunty of yet seeing Crice ass on this
oyalty that awaits him and the Princess
western peninula. Neither has ris western peninsula. Neither has he yet had an
opportunity of seeing the finest agricultural county
of this Dominion, or the best agricultural exhibiof this Dominion, or the best agricultural exhibieloved Princess and the Marquis will, at some future time, pay the garden of Canada another
visit. In no part of the Dominion could the Royal party find more patriotic and - -oval people ready
and wishing to greet them than they would find by a visit to this city, thence to Stratford, Exeter, Clinton, St. Thomas and Chatham. Without a
sight of these places the best part of Canada can sight of these
not te sen.
The city
The city decorations were very inferior. The
Tree Press made the finest illumination $n$ the Free Press made the finest illumination; the FAR
UER's ADvocate was said to have made the best day-light decorations, and the Advertiser erected the best illuminated motto, which all will endorse
namely : "Will Ye no Come Back Again."


Five dollars is offered to the first Senator, M. P. bove, and one dollar to the first paid subscribe hat sends the correct answer; also twenty-five
cents to every-one that is over one year in arrear ents to every-one the
NotE. - The above cash offers are only open un
the first day of November. The applicants for the payment must state that they have fairl solved the rebus themselves, and now honorably, [Our little nephews and nieces need not send answers to this, as it requires a cash payment to lass of yeomandy and citizens than in this city complete the answer.]

## PUZZLES.

$\underset{\text { L dlgy, nerk, iunok dnxk ilo ondg, Loskg py }}{ }$ wlgk ny cndg; $\mathbf{P}$ xkemtbkg muto mn peombtr olwk; Ne kllogu muky cdlerk, yznw uklxke muk? lwk, D nxk po muk ontd'o kdkrmbpr ydlwk-Leg ndg pmo hkom rnegtrmnb
In this punzle the letter written in hindden characters; thus, wherever you and "a " it is substituted for some other letter,
ndd the same with the other letters. The puzzle is to find out for which letters the various characers are substituted, and to make the substitutions so as to form a readable verse. This may seem
rather difficult to those unacyuainted with the puzzle, but after a little practice and study they become comparatively casy and interesting. As
this is the first of the kind we have given you, we we will endeavor to give you a solution in the November number. Meanwhile we will wait and 91-charades.
1-Upon my last shines my first
Helps to tend and nourish it
Throughont each summer day.
A radiated flower is whole,
)me think it ugly, and, perhaps,
'Tis ugly thought by you
2.-My first is a very useful, though small
and article ; my second is a biped; my third is seen
on the ocean, and my whole refers to writing. 92-numbered (tiaralie. am a noted town of nine letters. My $4,7,2,1,9,8$ i a town of Hanover.
My $1,2,1,9,3$ is a town in the East Prussial My $1,2,1,9,3$ is a town in the
My $2,4,7$ is a river of Spain.
My $5,1,7$ is a My
My $9,1,6$
,
is an annual, native of Australia.

93-enigatical houquet.
1-A girl's name; an article; an adverl
2- Precise; a a irl's name 2-Precise; a girl's name. 94-transtosittion
Klie hte edw no eth ontuanim,
Klie eth bbbuel no het tufforna
Otuh tar egon dan orfeerv. Hatti 95-cross word enigma.
My first in count but not in number,
My second in wake but not in slumber
My third is in youth but not in age,
My fourth is in mint but not in sage
My fifth is in is sear but not in sheep,
My whole is a native of the Philippine Islands.
Cortail
Curtail the inhabitants of a country in Europe Curtail a certain animal and leave the Hebrew for master. Curtail the sense of seeing, and leave to grieve.
Curtail a country in Europe, and leave a certain $\stackrel{\text { coin. }}{\substack{\text { Curta } \\ \text { Cur }}}$

Curtail a certain vegetable, and leave an insect.
Curtail a certain article of clothing, and leave a wound.
Curtail
Curtail a certain color, and leave a part of the
FANNY J.
human face.

> My first is in heat but not in light, My seocod in depith but not in heipht, My third is in in sure but not in safe, My fourth is in child but not in waif, My fifth is in rain but not in snow, My sixth is is in singht but tot in ihow, My seventh is in wait but not in stay, My eighth is in brown but not in gray, My ninth is in ground but not in clay. Iy whole is what all young folks should get.

The best lip salve is a kiss. This remedy should
be used with caution, as it is liable to bring on an
affection of the heart.

## Answers to August Puzzles <br>  




Names of Those who sent Correct Answers to Augast Pazales. Lizzie Annis, Nana Henderson, Minio Dean, Hort

 S.oob, hande Jonhte, e, sol



## humorgus

Fox, the great orator, was on one occasion told l,y a lady that she "did not care three skips of a
louse for him." He immediately took out his pencil and wro'e the following:Alady has told me, and in her own house,
That she carcs not for me "three skips of a louse." 1 forgive the dear creature for what she has said,
" When we reach the city we will take the horse "ars," he remarked. No we wol, she replied, Wateh me riden' in them nasty stock cars. I've seen too much of them.
An Iowa lady took her little child into a ceme-
tery for the first time, and upon showing him the marble figure of a lamb upon a grave, was at once appalled and delighted to hear him exclaim : suppose an old sheep is buried there."
"No man shall ever kiss me except my future husband," she said, as he was about leaving her at the gate. " "Suppose I agree to be your future-"
"Why, then, Ill kiss you," she replied, eagerly, and she did. Her mother was informed that he had proposed, and the old lady called around next day to fasten matters, and before he knew ital he
was eternally booked. It was a mean advantage was eternaliy thoke. land was worth two on a fron gate.
Cld Tom Purdie, Sir Walter Scott's favorite at endant, once said: "Them are fine novels y ${ }^{\text {I }}$ and glad to hear it, Tom." "Yes, sir ; for when 1 have been out all day, hard at work, and come mame very tired
A small boy with a big cent in his hand stood before making up his mind to enter. When asked what he desired, he inquired : "If a boy shoul come here and get trusted for a stick of gum, heply "And if a boy should cone here with the cash, how much would it be?" "Just the same.
"Then I guess I'll get trusted," quietly remarked pocket.
Viewing ir Differently.- An old pioneer, who
believed that "what was to be would be," lived his gun with him ; and once, finding that some o his family had borrowed it, he would not go with out it. His friends rallied him, saying the the not die till his time came." "Yes," said ol Leatherstocking; but suppose I was to meet an
Indian, and his time was come, it wouldn't do not Indian, and his
to have my gun.


To lose the respect of others is often a serions, sometimes an irreparable, loss. Those who have
let themselves down, find it uncommonly hard to get up again. When Harry, a smart, reflecting
boy of fifteen, has found the weak side of parent or tutor, has seen him off parade, in undress, it is very dificult for the parent or tutor-conscious of
the fact--to rer gir's who have scent their mother flirt, disregarded her lectures on prudence; as the boys who have
seen their father tipsy laugh in their sleeves when he warns them against driok; as the salesmen feel little reverence for the homilies on honesty of an employer whose tricks of trade they see dally ; so,
only in a milder way, the just and rightful authoronly of tutor or employer is lost, with habitual loss of temper.
Temper can be controlled. When the cook has sent up the dinner to your friends and you, with
the fish spoiled, the meat overdone, and those grouse so horribly bungled that you wish they were on their native heath again, you can smile, and
talk, and jest, and keep your temper. Regard for your friends secures control of it. When poor, awkward Thomas-coachman by right, footman by brevet-lets fal a litte of the gravy on your dress, madam, how delightffilly you betave!
account. Your hostess is not to be put ont by it. In fact, you are so amiable that one might suppose
you rather liked \&rease-spots. You control your you rather liked crease-spots. You control your-
self in company.
Then it is possible to do it else where. What can be done once can be done again, and the second time is commonly easier than the irst, and the third easiest, and so in delightful pro
gression. Piease try it. gression
Have
Have you noticed that when yon proceed to talk
to cook about the shameful way in which that ainner was sent up, the very talking seems to have a simulating effect, and the temper rises as you proaffects ourselves, as the advocate's did his client, who burst into tears, as he heard the indignant ap before how badly I was used!" This seems to uggest that silence is desira
danger of temper. There any forms of silence that are full of poetry. Silent dew, silen
ters, silent woods, and silent moon, silent shores, ars, silent woods, and silent moon, silent shores loveliness of their own; but there is a peculia beauty about the silence of a man who is hurt wounded, wrongect, to whose lips arrested. This
biting rejoinder leaps, and is thery
is the silence that is golden-very scarce, and very biting rejo
is the silen
valuable.
To be sure, silence may be sullen; it may be for is horrible. To nurse one's wrath, to carry it about, perhaps to "smile and smile, and be a vil ain," waiting for the fit moment to strike wit
effect, this is diabolical rather than human. efrect, this is daabolical ra, her vindictiveness. It
combines hypocrisy, fraud,
is a little thing-bit it is true that he who does this, arms himself whise preparing his revenge.
The arrow he is hiding for his victim, wounds and The arrow he is hiding for his victim, wounds and
poisons himself. If ever we are tempterd to plan
wrongs for ourselves, let us, hear that voice that ays, engeance is mine.
Fretfulness is a drizzling rain, that shuts out the sun; temper is a thunder-shower, preceeded by gusts of wind, clouds of dust, and of which you
say at last, "I'm glad it's over ;" but sullen revenge say at last, "rus, bitter "north-wester" from off ice-
is a continuou
fields, like that which stops the breath of the old and the little children. Good-temper is the day of gleam in a gentle breeze, the blossoms open, and "the trees of the field clap their hands,"

$$
\begin{aligned}
& \text { It is not meant that life is so uniformly bright } \\
& \text { that we can never be ruffled. It is meant that we }
\end{aligned}
$$ hat we can never be ruflici. Na to temper. If a

larken its sky, if we sive way to darken its sky, is we give way to temper. It out and throw it away than to strike at the bush. It
is not meant that there are none who try one's stemis not meant that there-the idle, the torgetful, the
per. There are many-vicious, the mar-plots, the kill joys. What is
wanted is, that the temper should stand the trial; that a man should retain his equanimity though every bitton be missing from his shirt, or his mise
be five minutes behind time ; that, as Pope has it, a woman should be.
"Mistress of herself, though China fall."
For most of us get more than we deserve; we nought not to forget Him whose rights are para-
ougunt and often denied Him, but who is "long-
moun suffering aud slow to wrath.

## A Good Word for the Bats.

 Among the prejudices cherished by the masses that felt almost universally acainst bats, arising probably from the simple fact that they are childafter foed in the darkness. It may be, however, strength to this feeling for the Jewish legislation already declared them unclean and accursed, and the Greeks borrowed their wings fir the harpies lost bat need but to fly into a room filled with company, and everybody is frightened. Superstitious people tremble at their mere presence as anevil omen ; and the strong-minded among the fair excusetheir terror by pretended fear of their hair, an apprehension which could be well founded only if the accounts of insects being harbore these children of darkness are neither fair in form nor amiable in temper. The naked, black skin of their wings, stretched out between enormbusly letgten the
fingers, like the silk of an umbrella between the whalebones of the frame; the ugly claws of their hind feet; the bare appendages which frequently adorn their noses and miseless, almost myster ious flight by touch, and not by sight-all these peculiarities comb
guests among men.
And yet they are real public benefactors. When their long winter sleep, which they enjoy hanging by their hind feet, head down, and the whole body carefuly wrapped up in the wide cloak of ther
wings, they begin their night's hunt. A dozen fat beetles hardly suffice for the supper of a hungry member of one variety, and sixty to seventy houseflies for one of another kind. All night long they
pursue with indefatigable energy every variety of pursue, moth, and fty, and enjoy most of all those which do the greatest injury to our fruit-trees and cereals. Even the
of their race the vampire, is much maligned ; a of thantic bat, accused of sucking the blood of max and beast, it is confined to a small
tropics, and there occurs but rarely
"Father of adored one-" Then it comes to this, sir ; you have no fortune, you have lost your appointment, you have no prospect of another, and fortune?" "No! Suppose we put it this way : 1 am unembarrassed by wealth, am free from the hope ; therefore, this is the crisis when I can best devote myself to your daughter, and enjoy tha
affluence with which you will crown our love."

We have received the Ant Amateur. It conand artistic notes, hints, and illustrations.

It Can't Be Helped. "Can't be helped," is one of the thousand convenient phrases with which men cheat and
deceive themselves. It is one on which the helpless and ide take refuge as the last and only com-fort-it can't be helped. Your energetic man is for helping everything. If he sees an evil, and clearly discerns its cause, he is for taking steps
foathwith to remove it. He busies himself with foathwith to remove it. Ae busies heans, devises practical plans and
ways and
methods, and will not let the world rest until he methods, and will not let the world rest until he has done something in a remedial way. The in
dolent man spares himself the trouble. He will别 always ready
with his unwith his un-
varying ob$\underset{\text { vervation, }}{ }$ "I servation,
can't be help
ne d," as muc
asto say-". sto sayit is, why
ought to to
and we nee
not bection selves ton selves toni
t." $1 /$ a
onr face our face youl
dirty little
school. boy school - bry
you are vile
repulsive and repulsive and
vicious, by reason of your neglect
cleanline
It can't '. It can't ti.
heloed.' Clear
away your reaway your re-
fuse, sweep
your strets fuse, sweep
your streets,
cleanse your cleanse your gutters, puri-
y your
atmosphere you
indolent corporations, for the cholera is can't be help-
ed !" Edu-
cate your
children, train them up ${ }^{\text {in }}$,
virtuous hal). its, teach them to be in
dustrious obedient, int yal and aisc thoughtful, you thourgini-
lesscommunis
ties, for the ties, for they
jare now grow jare now grow
ing up vicious cgnorant and sareless,
ource of fu ture peril to ture pation. "It can't be help-
ed." But it ean be helped. Every evil can be abated,
every nuis-
ance got rid of, every abo $\operatorname{mination}_{\text {swept away }}$ "Can't-he. and interests of society, that the real chattine though this will never be done by the "Can't-be and interests of society, that the real chattiness one within a mile of the parata. Beside these helped"people. Man is not helpless, but can and fure. This is what ought to be done; watch all many of which no prudent man would touch. But ooth help himself and help others. He can act parture. that seem to be talking among themHe has the power to abuse and eventually to up-
root them. But alas ! the greatest obstacle of all root them. But alas: the greatest obstacle of all
in the way of such a beneficial action, is the feel. ing and disposition out of which arises the miserable, and idle ejacu'ation of "It can't be helped."
The real object of a drawing $\xi$-room is to charm at the first look, to amuse at the second. The apart-
ment must certainly not lie a flower-bed, but a gar. ment must certamy not of a flower bed, but a gar.
there are clumps of trees and linubs. Apparent
disorder is the highest art. Study well the dis. order of your drawing-room. Shnn that too sym-

## Natural History

## Believing it will be amusing and instructive to

 our young readers, and to some of riper years, we purpose to give you some sketches with illustra. tions upon the above subject. If any of our young frends send a bove subject. If any of our young these mutliated birds and is consequently one on riends send a better description of this picture anost successful sportsman of the locality. Wha insert it, have prepared for nextissue, we will in- pretty generally followed by the people under his insert it, givingexplains itself. nounced or receive some personal injury. Attached
to every net is a cage full of llind quails, decoy o every net is a cage full of had their eyos pierced by a red-hot wire, and their melancholy plaints, I know a priest who has one hundred and fifty of charge." -

How Quails are Caught in Italy. The Naples correspondent of the London Times
writes: "The Neapolitans have their shooting writes: "The Neapolitans have their shooting
season as well as the English, and it is now at its season aight. If they connot boast of grouse, they do o
heights.
quails, and these are coming in by thousands. I quails, and these are coming in by thousands. If
you cast your eye round the bay you will see that you cast your eye round the bay you will see that
along every mountain top is stretched a net along every mountain top is stretched a ne
or series of nets, attached to poles of a great heigh They have long been in conrse of preparation-pe haps since the 12 th of August, for who knows whe capricious as so many human travelers, and capricious as so many human travelers, and
are regulated by unseen atmospheric influences. A clear sky
and a gentle southeasterly
wind seem to wind seem conditions for their journey,
ju:t such as just such a
we had re we had re-
cently; andi
as som as it as sonn as it
is dank the
watchers and
men watehers and
the ir frients
asimilnathe parata on Which eteh
net iserected,
waiting with waiting wit
anxions pectation. It asion, 8 or
much so that
mate the n times the
Nity is greater than calThe wind is somewhat too igh, so down nets. But
there is a lull: there is a rush in the air and
up go the nets Yain, and one
hears a "puft, hears a puif,
pult, as the
por lisds a ntercepted.
Every now hud then there 1. Pecure the
irisoners, and Then haul up. thit goes orn
till the morn:
ing, when the ing, when the ears in tlou-
lye forre. A
crow of of peasants have as sembled
whoshout till they are
hoarse in orhoarse in or
ler $t$. the birils inte, their nets, so
that from the
then of day there is no reet them keep at a certain distance from the nets, as the law commands, or they will be de-

## Oniy a Boy.

I am only a boy, with a heart light and free; am brimming with mischief and frolic and glee I dance with delight, and whistle and sing;
And you think such a boy never cares for a thing. But boys have their troubles, tho' jolly they seem;
Their thoughts can go further than most people deem;
Their hearts are as open to sorrow as joy,
And each has his feelings, though only a boy
Now, oft when I've worked hard at piling up wood,
Have done all my errands and tried to be good-Have done ail my errands and tried to be goo
think I might then have a rest or a play; But how shall I manage? Can any one say?
If $I$ start for a stroll, it is, "Keep off the street !", If I take me a seat, 'tis, "Here! give me tha If I lounge by a window, 'tis, "Don't loiter there! If I ask a few questions, 'tis, "Don't bother me!' Or else, "Such a torment I never did see
I am scolded or cuffed if I make the least noise,
Till I think in this wide world there's no place for

I think
boys.
At school they are shocked if I want a good play,
At home or in church I am so in the way: And its hard, for I don't see that boys are to blame Of course a boy can't know as much as a man; But we try to do right just as hard as we can. For the best man on earth once was only a boy.

Antiquity of Gloves.
As Xenophon, in his "Cyropedia," mentions
that on one occasion Cyrus went without his gloves, that on one occasion Cyrus went without his gloves,
there are good grounds for believing that the an-
cient Persians were not ignorant of their use, and it is known that both Greeks and Romans some times wore them. The period when gloves wer
first used in England, however, is likely to be of more interest to our readers; and this could not
have been much before the time of Ethelred II., when five pairs made a considerable part of the
duty paid by some German merchants to that king for the protection of their trade. In the reign of
Richard and John gloves were worn by the higher Richard and John gloves were worn by the higher
classes, sometimes short and sometimes to the classes, sometimes short and sometimes to the
elbow, jewelled on the backs and embroidered at the tops. Our ancestors closely connected gloves
with chivalry, both in love and war ; and the cns. a challenge ; the person defied signifying his accept ance of it by taking up opponent's glove and throw ing down his own. Biting the gloves meant, on
the border, a pledge of mortal revenge; and a story
is told of a gentleman of Teviotdale who, after a is told of a gentleman of Teviotdale who, after a
hard drinking bout, observing in the morning that quarrelled, and finding he had had words with on of his companions, insisted on satisfaetion, saying
that although he remembered nothing of the dispute, he would never have bitten his glove unless
he had received unpardonable insult. the duel, which was fought near Shelki k. The foling of a glove by a lady to her knignt was a toke
of love, and a command to do her bidding :

## 

Frr her to break a lance.
In these practical days of ours chivaly has quite
died out, and gloves are now for the most part merely regarded as a covering for the hands. One important use made of them in modern society
in the form of bets between the two sexes on suc io the form of bets between the two sexes on such Royal Ascot, and other races. There is yet one
old custom connected with gloves which has lived
downtor down to our time, but is sellom called into practice
I allude o " gloves in law." At an assiza, whe no prisoners are to be tried, the sheriff present
the judge with a pair of white gloves, and thi the judge with a pair of white glo
custom is also obscrved in Scotland.

The manager of a theatre finding, on one occa-
sion, but three persons in attendance, thus addressed sion, but three persons in attendance, thus addresse
the audience: ". Ladies and gentlemen, as there is
not performance of this night will not be performed ;
but it will lee repeated to-morrow evening.

## Our ©wn.

If I had known in the morning How wearily all the day
The words unkind Would trouble my mind,
I said when I went away.
I had been more careful, darling, Nor given you needless pain; But we vex ""our own
With look and tone With look and tone
We may never take back again
For though in the quiet evening Yet it might be
That never for me That never for me
How many go forth in the morning
How many go forth in iner come at night?
That never come and hearts have been broken, And hearts have been broken,
By harsh words spoken, By harsh words spoken,
That sorrow can ne'er set right.
We have careful thought for the stranger
And smiles for the sometime guest, And smiles for the somn
But oft for "our own The bitter tone, Though we love " our own" the best. Ah! brow, with that look of scorn ! 'Twere a cruel fate,
Were the night too lat Were the night too late
To undo the work of the morn

## Holy Wells in Ireland

For several miles our road was bounded by bog on one side and rocks on the other. There were
no evidences of human habitation, yet here and
there we passed a peassant-some crippled, all no evidences of human habitation, yet here and
there we passed a peasant-some crippled, all
plunged in profound misery. I inquired the errand of these poor creatures, and was informed that it
was St. Somebody's Day, and they were going to
her well near by to be healed. "It's there beyond" her well near by to be healed. "It's there beyond"
said a trembling old woman, pointing her skinny said a trembling of trees and a stone wall a few
finger to a clump of he valley to a small inclosure which surrounded a well and a withered tree. Near by was a rude tone altar, upon which were numererus offerings
of toys, bits of broken. ware, and shreds of many olored rags tied to sticks, and kneeling beside it was a group of cripples; some moved slowy rond were telling their beads, others partook of the
water, while a priest stood by the tree reading. water, while a priest stood by the tree reading.
This, then, was one of the holy wells so numerous in Ireland, to which visits are still frequently made, in some cases as works of penance, either voluntary
or enjoined, but generally for obtainihg health, ar enjoinea, but generaly fant, by drinking the water of the well. Of ocourse the day of the patron
waint of each well is the one chosen for these visits saint of each well is the one chosen for these visits,

and some years ago, and even now in many parts ond some years ago, and even now in many part | religious motives, but for the love of gossip and |
| :--- |
| meeting with distant friends. These wells have | kept their reputation for centuries, the fame of

some being coeval with Christianity, while that of others probably preceeded it, the early Christian hip, laaving the alters of iclolatry undisturbed hap, leaving the alt
Harper's Magaine.

How to Grow.
Once I read of a lively, fun-loving little fellow,
who was found standing in the who was found standing in the garden, wing hi
feet buried in the soil and his hand clasping a tall sunflower. His face was aglow with delight; and when his mother said, "Willie, dear, what please
you so much?" he replied, "'Mamma, I'm going
 Willie seemed to think he was as a plant and he was mistaken, as you know. Boys grow int
men by means of food taken into the mouth; but more than mere bread and meat. They must eat to be
more
facts.
"Oh
win facts.
WOh !
Willie.
" 1 Py
llie. how can we do that?" exclaims some wee is the spoon with which you get the facts into your head. By thinking you get to know what the facts
really signify.
vegetables and fruit you just as the the bread, meat, the body grow, so the facts you think about make
your mind grow. Be a realler and a thinker."

## Words for the Young.

 Young friends, education is to you what polishand refinement is to the rude diamond. In its rude state, the diamond resembles a stone, or piece
of charcoal ; but when cut and manufactured, it of charcoal ; but when cut and manufactured, it
comes out a bright and beautiful diamond, and is comes out a bright and beautiful diamond, and
sold at a great price. So it is with you. Education calls forth the hidden treasures and latent
brilliacies of your minds, which previously lie brilliancies of your minds, which previously lie
dormant and inactive, or, in other words, asleep.
It cultivates and develops your understandings, It cultivates and develops your understandings, and fits and prepares you for the duties and re-
sponsibilities of coming years, which, we trust sponsibilities of coming years, which, we trust
will be years of usefulness-useful to yourselves to your associates, and society, at large. If so you
must never misspend your time or opportunities. must never misspend your time or opportanities.
Endeavour to learn something new and useful every day. Add to your little store of knowledge day by day, and you will, in a few years, have a
great bank of your own, on which you may draw in every emergency. Remember that every little step is to that great
elevation called science ; and the more you study elevation called science, and the more you stady,
the more you learn, and the wiser you grow, the the more you learn, and the wiser you g,
greater will be your desire for knowledge.
Let me say to you, as one who is deeply inter-
ested in your common welfare, one who earnestly ested in your common welfare, one who earnestly
desires to see you become honoured, useful, and happy-improve your minds by accquiring a, good
store of useful knowledge. Bear in mind, my young friends, that you are fast surmounting the busy stage of life ; that the time is approaching
when circumstances will call you forth into a busy when bustling world. You will then have to contend with the dangers and perils that such a world af
fords; you will have many obstacles and many fords; you will, have many obstacles and many
pernicious influences to strive against; and unless your minds are well stored with useful knowledge,
you will be unable to overcome those difficulties A promise should be given with caution and
kept with care. A promise should be made with
the heart, and remembered by the Lead. A the heart, and remembered by the Lead. A
promise is the offspring of the intention, and should be purtured by recollection. A promise and its performance should, like a true balance, always
present a mutual adjustment. A promise delayed is justice deferred. A promise neglected is an untruth told. A promise attended to is a debt set
tled. tled.
A young man from the country went to have a the tooth out, and assured him that he would feel no pain if he inhaled laughing gas. "Rut what is
the effect of the gas?" asked the youth. "It simply makes you totalily insensible,, a answered the
dentist; you don't know anything that takes dentist; you don't know anything that takes
place." The rustic assented, but just previous to place. the gas being administered he put his hand into his pocket and pulled out his money. "Oh, do
not trouble about that now," said the dentist, thinking he was going to be paid his fee. "Not at all," remarked the patient, "I was simply going
to see how much I had before the gas took effect." A minister who, after a hard day's labor, was
enjoying a "tea dinner," kept incessantly praising enjoying a "tea dinner," kept incessantly praising
the hain, and saying that "Mrs. Dunlop at hame was as fond ' ' ham as he was," when the mistress "It's unco kin' $o$ ' ye, unco kip' but Tll na put ye to the trouble me "When, on leaving, he
the horse afore me." mounted, and the ham was put into a sack, some dificully was experience genius soon cut the Gor-
properly. His inventive gen propery. "I think, mistress, a cheese in the ither end wad make a grand balance." The hint was immediately acted on, and, like John Gilpin,
he moved away with his "balance true." When a young gentleman kisses a young lady,
she very naturally says, "Oh, Dick; the idea!", she very naturally says, "Oh, Dick; the idea!",
And he, also naturally, replies. "No, love ; not
the eye, dear ; but the chepl "Who was the first man ?" asked a Sunday.
school teacher of her prodigy. "Adam." "And who was the first woman? ?" He hasitated but a moment, and then shouted, "Madam
"What comes after T T ?" asked a teacher of a
little abecedarian. "Mou do--to see cousin 'Liza," was the embarrassing reply. mother at leading dry goods shops, remarked:
"Seems to me there are a good many boys named
Cash." Cash."

- 



## Montreal Market

 Hontreal, Octorer 9.superiors $\$ 6$ to 86 . 15 ;


Toronto Market.
sprist



New York Markets.
 Batley dull; ats
Batter 3 to 26c.

## Chicago Markets.



## Little Falls Cheese and Butter Market

 Reported for "Farmer's Advocato"" by Prof. X. A. WillardLittle Falls, N. Y., Sept. 27th, 1879 . For the past three weeks there has been much
excitement in this market owing to the continued advance in the price for cheese. And although higher rates were expect d no one thought price would go up so rapidily. The advance has bee from 2e. to $2 \frac{1}{\mathrm{~s}}$. per pound per week for the pas three weeks. The lop price for best actories, on the first of Septenr, Sept on the best prices had gone up to $10: \mathrm{c}$. to 11 c . Never before have we known cheese to double in value in so short a period. The rapid rise was not anticipated, even by dealers who, a week previous to the last advance, could have bought large quantities of cheese at much lower rates than they did at the market dur ing the week ending the 27th inst. Of course there is much speculation as to whether the th vance is permanent or otherwise. In
first it is urged that the severe drouth all through the dairy districts of New York has cut off production more than one-third ; that is to say : Up to the present time we have had only about two thirds of an average crop, while the fall make of cheese must be very light indeed, since there is no after feed, and pastures are dried up and scanty requiring the herds to be fed with hay in many instances. In some localities heavy frost aro pach to cold weather, it is too late to expect good feed and the fall make of cheese, in consequence, must be exceedingly light.
For the week ending Sept. 27 about 14,000 boxes of cheese were offered at Little Falls, and 12,000 changed hands. Of these, some 3,000 boxes sold at $10 \frac{\mathrm{c}}{} \mathrm{c}$., and 4,000 at 10 cc .; a few lots went at 10 c . and 11 c ., and the balance at 10 c . to 10 f . Torm dairies for the home trade went at from There has been a little advance in the price butter during every market day of the month. On the week ending Sept. ${ }_{2} 7$ fair to good lots sold at 17c. to 19c., and fancy, for the home trade, with creamery, brought from $19 \frac{1}{2}$ c. to $20 \frac{\mathrm{l}}{\mathrm{c}}$. and up to 21c. as an extreme rate. It is claimed that the butter dairies of the States have shipped their goods more freely than heretofore, which, togener wise rise in the price ting off production, must case a rise in the price
of all gool butters. Some dealers say they should not be surprised if fine descriptions should touch 28 c. to 30 c and upward. Of course these views must be taken simply as matters of opinion, as we do not believe prices on either butter or cheese can be predictel with certainty.
We have recent letters from England. Our London correspondent says finest new English. $\int$ are flat. Dutch cheese is firmer. Prices on

American cheese have advanced from 3s. to 5 s . and stocks on hand are mostly heated July make. The quotations for the second week in September 28 s . to 30 s .; good 24 s . to 26 s . ; and common at 20s. per cwt. English Cheddar sells at from 50s. to 70s.; Cheshire medium, 30s. to 40s.; fine,56s. to 60 s ; and Scotch fine, 40 s . to 50 s . per cwt.
The transactions in butter are large, and American butter participates in the demand, since the quality of that soming to hand is good. Prices are as follows : Clonmes, Dansish, 120s. to 125 s .; rriesland, 100s. to 112 s. ; Danish, 12s. Canadian, fine, 60s. to 90s., with American creamery at 84s. to 100 s . per cwt.
[N. B.-Since the above was written most genial showers have fallen, the weather has been very warm, and the growth of crops never excelled at his season of the year; it must add much to the all productions of cheese, butter and beef.
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## yodirgrx,

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00 price sall 10,000 .
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