

VOL. XIV.
LONDON, ONT., JULY, 1879.

## 50,000 COPIES! 50,000 COPIES! <br> THE RXHBITTON NOUBER

Farmer's Advocate FOR1879,

On or about the 1st September next.

 endeavors to promote thit
that our endeavors wil
increased failites now.
utmost for their benefit.
The circulation will be carefully divided among the leading
farmers throughout the Dominion. Progpectuses will be issued on the
can now be reserved.


## The Month.

Work, work, constant work is now calling your attention. Keep a little ahead if possible. Culattention. Keep a the germs of the weeds before they show the green leaf; this is the cheapest way to kill them. Do not be afraid of stirring the ground, especially if it gets dry. You increase the crop by soddin
sorbs the moisture.
Do not let your hay crop turn to a woody substance before cutting; hay and grain are both betthistles; do not let them break in your fallow or among your hoed crops.
See how comfortable your neighbors' cows and sheep are under the shade of those fine trees. I you have none, make up your mind you will hav a shade for yours in a few years. If your poor beasts have to suffer in the hot sun, do you no think it would pay you to set up a fow posts an lay some boards on them, or get some green wough nothing like making animals comfortable if you wish to make the most profit from them
You may perhaps complain about the price o butter or cheese. Do you think either of them will improve in quality while in your possession If not, sell. Tons of cheese were sold last yea for two cents per pound because it was kept til past its prime; tons of butter were sold for greas at five cents per pound.
haps realize these figure
Keep the potatoes free from the Colorado bug
by applications of Paris green and plaster. If you by applications of Paris green and plaster. If you
do not perhaps you may lack potatoes in the winter.

## Manitoba-No. 1

 preparing for pliehWe have read very laudatory accounts of this part of our Dominiun, many of which have been written by private individuals or Government officials, or interested parties having an axe to
We have also heard most deplorable acgrind. We have also heard most deplorable ac-
counts from parties we have seen. We wish to counts from parties we have seen. We wish to
form our opinion unitrammelled and give you our form our opinion untrammelled and pine position and
opinion of the country, its present opinion of the country,
future prospects, and show both sides, the advanfuture prospects, and shaw it may offer to our sub scribers and their sons as a place for settlement or investment; also to inform our ureify the expenditure of money in developing this vast tract. We have pablished reports, but personal observatio will satisfy us far better than any report.
We have not been practicing rifle-shooting, mak ing bullets and investing in bowie knives and pistols, as we did when we prepared to come here We do not encumber dirk, fishing tackle-no, such as we can carry easily, a change of clothes and a few necessaries; no umbrella, but a waterproof coat or rug. We never take much money, preferring to pay the P. o. or bank a triffe, and get small quantities as we require it. We intend to go by rail, with emi grants-as an emigrant; then we can speak bette of how you are likely to fare on the road. W purpose taking the shortest route our own personal convenience and comfort a little more, and intend to return by water as far as practicable, as we de sire to see all we can when we are on our journeys.

Manitoba, June 17.
We left London on the 10th by Mr. Patterson's migration party. Perhaps this may have been the most luxurious emigration party that eve eft Ontario ; at any rate, the attention to the comforts of passengers exceeded any we ever beore witnessed. The tickets were only $\$ 22.60$ from ondon to St. Boniface, with privilege to lay over at connecting points.
We left at $11.30 \mathrm{p} . \mathrm{m}$. , Tuesday; left Detroit at
$30 \mathrm{a} . \mathrm{m}$., Wednesday; Grand Haven, 2 p. $5.30 \mathrm{a} . \mathrm{m}$. , Wednesday ; Grand Haven, Th. p m hilwaukee, 10.30, ar ined till $5 \mathrm{p} . \mathrm{m}$.; arrived at Emerson on Friday, 6 p. m.
$\qquad$ ocupied four A smoking car was attached at Detroit; at Milwankee a sleeping car was attached, and accompanied the train throughout the trip, free for the ladies and children. Three attendants accompanied the train to look after the gentleman joined the company at Detroit, hired gentleman joined the company at Detroit, hired
for the express purpose of amusing the passengers.

The changes were expeditiously made. The party were all cheerful, happy and hopeful. Many ladies were going to their husbands. Many farm ers were taking teams, stock and implements. At St. Paul we walked through the city. Ther are magnificent views obtainable here, which the inhabitants claim as the finest in the world; they are very fine. The city has a population of about 50,000 , and has a prosperous appearance.
Emigrants claim that they have been deceived, that the Pacific R. R. contractors have not used them honestly or honorably. It is the duty every journal in
diately caution poor people from coming here thi year.
caution
Persons of small means, do not think of coming to this Province this season. The labor market is verstocked. There are over fifty emigrants at the weeks and cannot find work. Many have gone to he States, and some are walking back to Canada hey are leaving daily. We believe they would ill the emigration agent and circular writers hey could get at them. No emigration agent ha yet gone to the shells. The poor aie hegging, sod men, good mecheir accounts Many have ee them and hear to Cacific R. R. and have been hamefully used. We have seen farmors from all arts of Manitoba. Men that have $\$ 150$ to spare may come and examine the country ; many will like it. No settler should come this year unless he can command $\$ 600$ at least. There may be some good openings for those who have plenty of capital and energy. All are not satise An excursion party ome are highly de aving return lin wingeg are worse, We hear that account dise distress there than at this place. Mr. Patterson has tilled his agreement with parties most satisfactorily.

## (To be Continued.)

Lucerne in Canada.
Mr. Romeo Stephens, of slocum Lodge, st. Lambert's, near Montreal, informs as that he
commenced cutting his first crop of Lacerne on Monday, the 2ad day of June. Some of the crop was two feet five inches high, yet not a drop of rain had fallen on his farm this spring up to that time. Mr. S. cut four crops of this valuable fodder from the same ground during the season, ami six cuttings are often taken from it in England. We have frequently called the attention of our realers to this valuable iorage plant. farms of a few of the most enterprising as yet. known the states as Alfalfa or chilian clover

## English Letter, Ne. 3.

[from our own correspondent.]
Liverpool; June 4th.
Barely a fortnight from the longest day, and yet no taste of summer ! We are, in fact, just a month to six weeks behind time compared with average seasons; but those who are learned in such things take comfort from the fact that the fruit trees, \&c., having escaped frosts, we shall have a plentiful apple, pear, plum and cherry season, and generally
a good fruit year. The reports as to grass and a good fruit year. The reports as to grass and have had a very expensive winter and spring have fewer complaints than usual about things as they are.
Cattle are arriving freely from the Dominion and so far without any symptoms of disease. Some of them have not been, however, to use a trade term, "finished," and a number of these have been sent to Dublin, where they, no doubt, will realize very fair prices as "stores.
The "block" which I anticipated at the lairages and slaughter houses at this port has already commenced; and the Privy Council having scheduled States pigs, which must now also be slaughtered, ally increased. At a recent meeting the Mersey Docks and Harbor Board authorized an extension of the lairages and slaughtering facilities at a cost of $£ 4,555$, but even this, $I$ fear, will be found quite inadequate to meet the demands of the next few months.
I have further to note that the steamship Lizzie, from Boston, arrived recently in London with upwards of 200 American sheep on board. These were landed at Thames Haven, and were afterwards forwarded to the Metropolitan Market the infections disease "scab." For some time has been known in this country that sheep in Kansas and Texas are affected with this disease but no case has ever been found amongst Canadian sheep. Our exemption hitherto, however, should not warrant the Government Inspectors in relaxin their vigilance in the inspection of sheep passing from this country, as it is just possible that some negligent farmer may not take the simple precau tions which are necessary for the extermination o this disease, should it manifest itself in any form, tleman who is engaged exclusively in sheep-raisin at the Falkland Islands, I was informed that sheep -the descendents of imported stock three genera tions before-had exhibited this disease, which was, however, easily eradicated by chemical washes, which are prepared for that purpose, and sold by almost all chemists and veterinary sur geons. This is not the first case of this diseas which has been detected among American sheep for in in in lon and Council have not as yet scheduled A merican sheep this may be looked for at no very distant dete As you are aware, the best sheep imported fro the American continent come from Western Canada, and it is very gratifying for me to be able to
remark that, through the efforts of your journal, your Canadian readers are better informed than any others in America as to the refuirements of this market, which has now been proved to be th only legitimate and profitable market for you
surplus stock. What is wanted in this respect more lean, and not so much waste fat. I an pleased to state that one of those enterprising farmers who are the making of any country, Mr T. D. Hodgins, a gentleman well known to you, having made diligent enquiries of the most competent authorities of this country as to the best
sheep to cross with our Canadians to meet the re quirements of the market, has decided that Shrop hire sheep or Downs are of the required class, and draft, selected from Lord Polewarki's will no doubt reach London, Ont., before thes lines are in print.
I am pleased also to state that a number of horses of Torronto, Ottawa, recently from the neighborhood care having been taken to select those suitable for omnibus purposes, and light compact farmers horses; and it is very satisfactory to know that the result has proved highly successful. The horses brought, although they did not realize ex. travagant prices, were of that class which are dollar bill. The demand for carriage a five although slightly improving is not what it was this time last year. There are a few enquiries for green Canadian hunters, which may be filled in time for the opening of the next season's fox hunt ing.
Mr. F. W. Stone, jr., writing to Bell's Weekly Messenger, on the 26 th ult., states that his father's letter to your journal with respect to the demand for Hereford bulls for Colorado and elsewhere, contains a clerical error; " 500 " in his opinion he thinks would be quite adequate to meet the demand. In this Mr. Stone, jr., is evidently mis taken, as I have just seen Mr. Scott of Colorado who has been in this country for several months, endeavoring to purchase one hundred Herefor bulls for that country. This is only one instance as there are several others from the far west at present here, bent on the same parpose, and they are now anxiously awaiting any relaxations of the order which prohibits British cattle entering the United States, and in the event of this not taking prices realized for those Herefords which you have for sale in the Dominion. The reason assigned by Mr. Scott and others for their preference for Here fords over Shorthorns is that it has heretofore been found that the Shorthorns get too leggy, whilst the Herefords and their descendents retain their shape, keep close to the ground, and do no develop the unprofitable offal portions.
Hogs from the States arriving here still continue where they are being slaughtered, at abinatoir the other day; I saw some, which had been slaugh tered, in really a terrible condition. This must b an awful disease. They were fairly rotten. The whole of the carcases affected in this manner are placed in a retort and burned, as if they were once allowed to go outside the slaughter-houses the demand for meat in this country is so great, even when of bad or dangerous quality, that there would be serious danger of some of them getting into consumption.
with their crop of turkeys and other now busy with their crop of turkeys and other poultry.
may here remark that the trade which has been conducted for the last three or four years in poultry from Canada to this country bids fair to be quadrupled during the ensuing season. Your lady friends should bear in mind that the better the quality the better the price that will be paid and as dealers will leave this country to purchase any really good stock, there will be ample demand for all they may produce, and any special care and ing will be amply rewarde ly the fatten obtained. Anything second-class will not do for shipment to this country
A report got abroad
Prince of Wales, following the example of several
the leading land-owners in this country, was fing to reduce his rents-in the Prince's case 20 per cent. At a recent rent audit, however, to the reat disappointment of the tenants, it was stated hat this was an error, and nearly all the tenants Bedford has remitted half a year's rent to his farming tenants, which act of eneroty, it is tated, cost His Grace the good round sum of $\$ 70,000$. Some of us, however, could just manage o make ends meet on the balance of the jear's
Th
ling sixteenth annual horse show was held at numben, London, on Saturday last. The total The exhibithorses shown was 337, in 15 classes. lass than A number of mule he inauguration of the show. cky, and hee fowarded to some Ken amway companies in this country for trial.
Talking of horses, the greatest event of the Wednesday May year, the Derby, came off on nany things. First of all, it was the centenary the great race; next, the subscribers numbered 280 , the largest number ever known; the field mprised 23, the largest since 1867; three horses ame in before the favorites; the winner, Sir Bevys, is reported to have been the property of aron hothschill, who has since been the victim den by Fordham, the well-known jockey, who after being upon the turf for twenty years, and winning every other great turf prize, has only hus succeeded at last in winning the blue ribbon. The fixing up of the Royal Agricultural ociety's show yard, at Kilburn, London, is apidly approaching completion. There will $b_{e}$ mething like three miles of shedding for maWales and implements alone. The Prince of Wales will open the show, which is, as you are etter I hope to say something moxt his subject.
Messrs. Cassells \& Co., the well-known publishers of London, have announced the issue, in Dairy Farts, of a new and original work entitled "essor Sherming," edited by the celebrated Proairy matters in Europe. The results of recent nestigations and experiments in Europe and America will be given, and the various improved ractices and processes will be described and ilustrated. This being the first important publiation on dairy matters in this country, it is both of producers and consumers, who are viewing with dismay the advances which have been made y our French and Schleswig-Holstein competitors he first number is to appear on the 25th inst. I promised in my last a description of the new street, Liverpool; but as it is still incomplete, must postpone my account for another month.

At about the middle of the past month Canadian steers were sold in the principal markets of Belgium at 1 franc per kilogramme live weight, or about $9 \frac{1}{2}$ cents per pound, being nearly double the price at which our choicest stock can be bought for here. If then it pays to re-ship our live stock from
England to Belgium, surely it is a safe enough investment to export there direct. Sales of Canadian saddle and carriage horses have also recently been made in Antwerp at from 1,200 francs to 1,800
francs each, or $\$ 240$ to $\$ 360$. In corroboration of francs each, or $\$ 240$ to $\$ 360$. In corroboration of
the above, a private letter from Antwerp states the above, a private letter from Antwerp states
that " products of every kind are now being in-
troduced into Belgium from Canada via England troduced into Belgium from Canada via England,
even fat cattle and horses and they give good even fat cattle and horses, and they give good
satisfaction."-[Montreal Gazette.

## On the Wing.

In the July number of 1878 we gave you the second article on our visit to the above-named State. A typographical error appeared in that
article; the monster vine spoken of there should have read thirty feet instead of three.
We arrived at Little Rock on Monday. The Sunday previous to our arrival two of the editors of different party papers met at one of the corners of the principal street, drew their revolvers and blazed away at each other for some time. One was
shot in the arm, the other had a ball passed through shot in the arm,
The landlady of
had a brother a Minister of the Gospel; he never used to enter the pulpit without his loaded revolver. Her daughter, quite a child, had seen two people shot. At the railway station we heard the report of a pistol, saw a crowd rush at a man and wrench a pistol out of his hand; he tried to shoot a railway official that had supplied his place by
another person. The law in the State prohibits another person. The law in the State prohibits those in position and power. The Sunday duel those in position and power. The Shatay duel
or skirmish was witnessed by the Sheriff, constables, \&c., but no one interfered. A farce of a trial ensued to blind the eyes of the world, but the law-breakers were allowed to go unpunished. The tone of the people was this: "It is their own business and leave them alone."
We spent one Sunday at Little Rock. In the morning we took a walk. The beautiful Magnolia trees, with their exquisitely beautiful flowers,
looked charming. The mocking birds were warlooked charming. The mocking birds were war-
bling in nearly every tree; the roses, honeysuckles, bling in nearly every tree; the roses, honeysuckles,
etc., filled the air with their perfume. The novelty pleased us. We attended divine worship in the morning, and after dinner took a drive iato the country. We passed the burying grounds of the slain during the Rebellion; many thousands were buried here. The burying ground of the Confederates was a wilderness of trees, the fence decayed, and no signs that interments had taken place. The burying ground of the Federals was
well fenced, neatly kept, and a marble monument placed at the head of every grave. What sad, sad thoughts this awakens! The once wealthy planters' sous, the owners of this land, lay unreplanters sons, the graves of the conscript hirelings are marked with honor and kept up at an enormous expense to the Government.
We had previously been introduced to one of these old planters, a Mr. Woodruff. He resides
in Little hock, has a three storey, handsome, in Little hock, has a three storey, handsome, spacious brick mansion, like an Englishman's
conutry seat, with fine, large, handsome trees, vines, drives and walks-a perfectly charming place to us. The old gentleman appeared between eighty and ninety, in good health, and having a clear, sound intellect-a perfect gentleman. He informed us that he always opposed the liebellion, and he never felt so sad as on the day he har. His
Confederates had commenced the war.
 family and property were nearly and say now he could not pay the taxes on thtle
and now left. We heard of other heart-rending tales from other farmers. You can have but the slightest other farmers. Yrdships these poor creatures have
idea of the real hard endured. You should be thank ful you are under the Union Jack. There are circumstances existing in
the United States that foreshadow a yet greater the United States that foreshadow a yet greater
war than they have yet had. We do not mean war than they have yet had.
that the South can ever rise again, but the excited that the South can ever rise again, but the excited
political feeling in the North and South, East and political feeling in the North and South, East and West, is like gunpowder. The best men in the
States will not enter into political life. The low States will not enter into pocitical ife. Cemoralresorts and unprinciped
izing; the title of Honorable in this part of the
world does not often imply the right term to parties prefixing it to their names. To proceed on our journey. We drove over such a rocky road and up such hills as we never
had seen a vehicle travel before. We came to a vineyard belonging to an Englishman from Devonshire. This individual had been here many years, and was enterprising and successful. He good advantage. The land on which the vines grew was covered with stones. One could hardly imagine how they could take root, but they grew and thrived. On our return we took a level road, passing large ootton plantations. The crop in some
places was up and had been cultivated; in other places was up and had been cultivated; in other
places the seed was not yet planted. We passed numerous negro residences, and here were again surprises were far apart) such a family of young negroes and negresses were to be seen about the same size, that we looked and looked again for more houses, or some other signs for their production than a negro woman. We should almost think they were hatched, judging from their numbers and sinall, even size. Every house had its quota, and a healthy, thriving lot they were. It is all nonsense to talk of the negroes dying out there, on the rost There were 27 prisoners taken to Little Rock one day when we were there, mostly for petty lareenies, such as chicken-stealing. The white inhabitants wish to break them of that habit, consequently they make an occasional raid on the darkies. As we were driving along we
heard the sounds of hymn-singing. We stopped heard the sounds of hymn-singing. We stopped the horses and walked to the $\log$ house from whence the sounds proceeded. We went to the rear of the house, orween, and stoop or rough ver andah at the back. There was an assemblage of colored people at their devotional exercises. Their singing was pleasing, and the prayer which fol-
lowed may have been to them. The main operator lowed may have been to them. The main operator yelled and thundered. His words flowed in such rapid succession that it was difficult to catch all.
He was kneeling. His head would be at one inHe was kneeling. His head would be at one in
stant nearly on the ground, and the next erect, about as quick as lightning, and his hands and arms in all directions as quick as thought. He who had opened business in that neighborhood, as he brought many imprecations against him. The other negroes and negresses sometimes moaned, sighed and howled most dismally. You may talk
about having seen negroes in Canada. We have about having seen negroes in Canada. We have
seen hundreds of colored people with a kind of seen hundreds of colored people with a kind of
dingy look, but in Arkansas they fairly shine like dingy look, but
The houses in this part of the country are con structed entirely different to our houses in the ing in, the other for cooking and working in, with a large covered space between, which is open at the two siles. In this space they take their meals, sit, dance or hold meetings in the warm weather These openings are necessary, as the heat is too great to live in confined rooms. Some of the negroes build their houses after the same principle, but of logs. The play
brick or frame work.
We proceeded on our journey and called at the part of the State. But, oh! the soil, the drouth the lack of moisture or fertility, or proper air Ve never dreamed of raising crops under such ad. erse circumstances as exist at this place-where cotton, corn, the peach tree, vine, wild rose and sings. $\quad$ trees thrive-where the mocking bir sings. But grass will not grow-that is, grass like
we have; only a poor miserable species called Buffalo Grass, which is worse than any weed we have and not good for anything. Good pasture grass will not grow in this State, and where that will not grow our vegetables will not thrive. Not a
pasture field to be seen along the road-side; no pasture field to be seen along the road-side; no
grass. The working teams have to be kept in pens grass. The working teams have to be kept in pens
or fed corn all summer, or on praires; hay has to be or fed corn all summer, or on praires; hay has tow a
brought from long distances. We never saw a brought from long distances. We never saw a
sheep; only a few poor hogs and the most miser able apology for cows, and these at only one place. It was nearly seven o'clock when we reached Little Rock. We went directly to our residence, one of the most comfortable in the city, hungry as an Englishman after 14 miles ride and long walks up mountain sides, over plantations and attending to the dining room. Not a vestige of supper ap peared, nor any symptoms of such-fire out in the kitchen. We saw no hope, so we took another stroll. No cake shop was open, but the saloons were and were doing an excellent business. The negroes and whites were all cleanly and well attired, and all appeared peaceable and quiet. saw no drunken person while in this State. We then attended divine service, but very few were found in any of the churches. We returned
home expecting a late supper. We talked and home expecting a late supper. We talked and
chatted till nearly eleven o'clock, but no one said food. We thought we could submit to this and do as others did, but we tell you we were hungry. We realized that that State would not be a happy one for an Englishman. The next day at dinnertime we asked about the customs of that State and found that no tea or supper on Sunday was
the Sunday-custom. We do not agree with that
When the Sunday-custom. We do not agree with that
kind of theology at all, at all. Our landlady had kind of theology at all, at all. Our landads, ad the best luxuries that the market could affor were procured. Venison in this hot weather, and any vegetable or fruit was on our table. We thanked our hostess for her extreme kindness and requested her not to put herself to such trouble as we knew she was doing so mueh to make us comfortable. Her laconic reply was brief and to the point, viz.: "We do not
well. Oh poor unlucky me
The State may have advantages, but we have mentioned most of them. from what we have seen we would rather have 25 acres of land in Canada to live on than one thousand acres of the best land that we have seen in that State, and ther are millions in it that we do not think will b worth one cent in our life time. We may giv you more about this trip at some future tim

## Summer Fallowing.

Fallowing has not at any time been so general in this Western World as it has been in Europe, nor is it so much practiced even there as it was some reat Britain has rendered the necessity for fallowing less there than when hoed crops were less known. But it cannot be wholly dispensed with. It is especially necessary that heavy, tenacious clay land receive a thorough summer fallow be. times. There are stores of plant-food in the soil that under certain circumstances can only be made available by exposing it as much an posin chemical hfluence or be beffected by such powerful influences, and this, added to the ammonia absorbed from the atmosphere, has been found to produce heavy wheat crops, of superior quality, on land that had been growing wheat for years. As a great object to be obtained by summer fallowing is to expose the plowed soil to the sun, the greater the surface so exposed so mier to do this the land
must be plowed and cross-plowed repeatedly during the summer-three to four time at least. cut and unturned, and be rough and cloddy; it cut and unturned, and be rough and cloday; it
will absorb the more carbonic acid and ammonia from the atmosphere. The first plowing should be early in the autumn previous, as soon as the crop is removed. It should be shallow, that the seeds of weeds may all germinate and be killed. The second plowing in the fall, deep and rough, to remain exposed to the ameliorating influence of winter. Then, in the summer fallowing, each successive plowing should turn up a fresh layer of soil; and if the subsoil be a hard-pan it should be subsoiled, the subsoil not brought up into the fertile soil, but, when broken up by the subsoiler
falling back into its bed.
Wheat grown on fallow commands the highes price in the British market, while the improvetion for the year's rent and the increased labor The improvements are, an increased power of the soil of absorption of the atmospheric fertilizers; greater pliablility, breaking into mellow soil the hard, heavy clinkers; and a rendering available the plant food that had been locked up in the stif clay.
It is sometimes found necessary to fallow even a light soil, in order to get rid of the weeds that have from bad farming taken entire possession o the soil. No other means will suffice in some cases to clear land from weeds that rob the crop of the sustenance it should receive. Of these weeds, comb grass, thistle and wild oats are among the worst, the most dicult to clean the land from. The land io play land. The summer fallowing consists in successive grubbings with a heavy cultivator, followed by the harrow, preventing all growth of weeds. They will, by this successive exposure, be soon killed by our great summer heat.

## The Bath and West of England Exhibition.

[from our own correspondent. | Exeter, Devonshire, England, |
| :---: |
| June 6 th, |

The great exhibition of the Bath and West of England Society was held this year in the ancient City of Exeter, the capital of the beautiful County make an attempt to give the readers of the make an attempt to give the readers of the and others of England can do in the way of agricultural shows. Before proceeding, however, to deal with the present show, a short sketch of the Bath and West of England Society may not be out of place, and I venture to say will be read with much interest by your numerous patrons. This Society, then, was established in England for the improvement of agriculture. It is now in the 102nd year of its existence. Some people seem possessed with the conceit that all the great advancements in our leading indust ies belong to the present generation, but this Society, for one, was formed or the "encorage." So low, arts, ro. Its birthplace was the fashionable City of Bath. Although it was the first Society formed in England for promoting good husbandry, that vital art had long before received close, practical attention from many earnest Britons. The man to whom the original idea of the formation of the $B$. and W. of E. Society was due, was a Mr. Edward Rack, a native of Norfolk, who had come to re-
side in Bath. Believing that a Society for promotside in Bath. Believing that a Society for pronot-
ing rural improvements would be a great benefit in
that part of the Kingdom, he set forth his views in the newspapers early in 1777; a meeting took place, and although only twenty-two attended it, that the Association was formed, which has gone on with its useful work from that day to this. The irst President of the Society was the Earl of nchester. The first subject which engaged the Society's attention was how to grow corn in the best and cheapest method. One of the first an ouncements made the second year related to the xhibition at the Society's rooms of a drill plough, which was stated to have been tried by the agrialtural committee, and been found to deliver the grain with great exactness and regularity. This was series that has since been anead over the world The Society went on practicing its useful and beneficent labors-prizes were given to pro note competition in stock breeding, the produce of mplements, \&c. The leading agriculturists of the country assisted in its advancement, and the result is that to-day it is a power in the land.
The site of the present exhibition is very pleas antly situated near the old City of Exeter. The show itself is considered a grand success, both a regards exhibits and visitors. The show epened on Monday, June 2nd, and closed the following Satur day. The "great day" here, as in Canada, wa Thursday. On this day over 35,000 people visited the grounds. Taking the show as a whole, it was on a much larger scale than the Western or Pro the la lars F . W . of E Society. Here there were 661 entries of live steck ncludung 123 horses, 88 Devon cattle, 43 Short horns, 33 Herfords, 48 Sussex, 50 Jerseys, and 38 Guernseys. Of sheep there were 207 pens, embrac ing 21 of Leicesters, 21 Cotswolds, 14 Devon (lon wools), 38 south Downs, 28 Hampshire Downs, 1 Somerset and Dorsit horns, and 14 Exmoors. There were 81 entries of pigs, of which 35 were Berkshires. In the poultry department there were 401 entries, including 114 of pigs.
Among the cattle there were some magnificen nimals, the like of which your correspondent never saw in Canada. Ihe Devons, as might be expected, make a Farthing filo " "Lod Newshm," an animal that was first at the Royal Society how last year a yerling and is sid to have wonderfuliy developed since then. He has an immense barrel, a very massive shoulder, his sides are almost as straight as a line, and the hind quarter is also well brought out. The Shorthorns are considered the meanest in character that has been seen at this show for many years. In the class for cows the judges left out of the prize list one of the class, once as fine a calf as ever was bred, which has been destroyed for breeding purposes by being puffed up for show on milk and meal from the days of her calfhood-the result of which is that she now looks as though she were rapidly going "all to pieces; and it is quite certain her issue (should she ever have any that grow to sequence of the injury inflicted on their dam for fashionable purposes. The sussex cattle are a remarkable collection for size, weight of Hesh and mproved quality. The Jerseys were conspicuous for their beauty and milk-giv
fell on a small amount of food.
Among the horses there were some beautiful spesimens of careful breeding, especially in the "hunters" class. The west of England is not famous for any special breed of horses. In agricultural stallions the first prizes go to sussex and

There is nothing particular to be said about the heep. The Devon long wools are being greatly
mproved and becoming very popular by the intro uction of Lincoln and Leicester strains. At pre ent they are not uniform in character, but by judicious selection and watching a breed of as true type as the Oxfordshire Downs, and truer than the mixed breeds of Shropshires, may be estab ished.
The exhibition of pigs was particularly noted for the mammoth proportions of most of the animals in the large breed, and altogether the display of pork "was very fine, far surpassing anything 1 ver saw in Canada. There has been much disegsard to the right form of swine for producing rgard to ther great markets A meeting will shortly be held to discuss thes meeting
points.
In the poultry classes the first place was taken y the Dorkings, which were a remarkably fine ollection of birds, and included all the prominent nd lest varieties. Great satisfaction was expressed nd the Cochins, which in respect to the black irds, of splescriptions were really a fine lot of Among the Brahmas the light varieties seemed to be the most popular. In the other classes the how appeared to be no better than often seen at he Western or Provincial Fairs. The pigeon display far excelled anything I ever saw in Canada. ttractive, prominent amono them being several American articles, And in each of the latter cases the Yankees took especial pains to put themselves well to the front.
The show of machinery, arts and manufactures, sc., was simply grand, and I regret that time and space will not permit me to present to your readers the leading features. Devonian.

## Avantages of English Agriciture.

 A short seaso and brings a generally inferior crop. The advantages which English wheat and oats have, is that they mature slowly, and therefore fill well. Our hot, dry weather in harvesting is favora ble for securing the crop, but injurious to its quality otherwise. The most serious loss is the impossibility ofmaking needed farm improvements. Thousaids of acres of good land are now under water, and before it can be dry enough to begin underdraining, the plow must be started ond all hope for imsoil will be so hard that it will be one-half more expensive to dig the drains than it would be now. Much underdraining is done in the fall, because
then is when the land is being fitted for wheat; but in most cases, it would pay better to hire extra in most cases, it would pay better to hire extra
help and do the work the spring before. It is a mistake to suppose that underdraining is not need-
ed for spring grain. Both barley and oats are less
. ed for spring grain. Both barley and oats are less
hardy against stagnant water than wheat, and the only reason why the latter is so badly injured, is that its stagnant water often comes when the soil is alternately free.
wheat roots out.
A correspondent of the Indiana Farmer tried four different fertilizers for melons-poultry drop-
pings, well-rotted cow manure, barnyard manure pings, well-rotted cow manure, barnyard manure by placing them in alternate layers with ashes the previous year), mixing all liberally in the different
hills, which were eight feet apart each way, and hills, which were elght feet apart each way, and
he says: "Such a crop of melons as came from he says:- "Such a crop of melons as came from
the hills that had bone-dust I never saw before."
Mr. J. Hapgood, Shrewsbury, Mass., favors shallow setting of asparagus roots; ;if placed, as some advise, eight inches below the surface, it
"makes the crop one two weeks later." He further maintains, in the American Cultivator, that he has also "found that the idea that salt is
useful to this useful to this,

## Stock．

Dangerous－Infectious Stock Diseases We have done our duty．We gave due notice to our Government as soon as we saw the Foot and Mouth Disease in stock in Canada；we also gave due notice as soon as we saw the Hog Cholera existing in hogs in Canada；and we also raised the warning voice about the danger we were
porting Pleuro－Pneumonia from the States．
Our Government，the Government organs a officials have very improperly attempted to show that our information was not reliable，and resorted to very mean，contemptible and disgraceful means to impress such opinions on the farmers of Canada and on the inhabitants of Europe．
The National Live Stock Journal，of Chicago which journal is the highest authority in the U．S． in regard to stock，devotes nearly three pages in the June number under the heading，＂Bovine Lung Fever（Pleuro－Pneumonia contagiosa）．＂The article is written by Prof．Law，the highest veter－ inary authority in the States．He first traces the disease from its first importation into the States in ben；ho to try to exterminate it，and shows that the disesse has been transmitted by herdsmen from one drove to another；that it has also been conveyed by manure to different herds．We ex－ tract the following from one part of the article：
＂but this is not what troùbles us．
＂The pestilence may devastate the stables of sweet will；it may spread over the State of New Jersey until the inspectors allege that in many may ravage Eastern Pennsylvania，Delaware，
Pere may ravage Castern ennsylvania，Delaware，
Maryand and Virginia，and may invade the Dis－
trict of Columbia itself－all this and much more trict of Columbia itself－all this and much more may befall us；we may remain month after month，
and year after year in the most imminent danger an having the affcction carried out to our Western plains，whence we could never eradicate it－thi $a$ moment suppose that we harbor such a disease， is a scandal and an outrage，and must be repudiated and denied with all possible vehemence．Orr own
veterinarians，who have studied the disease both veterinarians，who in Europe，and who have acquainted them－ selves with the history of both continents，are to be silenced，that we may listen complacently to
those who sit composedly at a respectful distance－ at
at Toronto（Campasa）and Edinburgh（Sisctance－
and without personal examination of history，pro－ and without personal examination of history，pro gress，symptoms，or lesions，prono not dealing，with the contagious
that we are not dion
pleuro－pneumonia of Europe．＇This action is alto gether too much like that of the hunted ostrich， which buries her head in the sand in off her fast－advancing fate．
＂Many American writers seem to lose sight of the fact that if it were established that the cattle on board the Ontario and Brazilian suffered fron
lung fever，it is far from being proved that thi lung fever，it is far from being proved that thi
disease exists in our Western States．It would be ample ground，it is true，for a searching investi－
gation through our Western herds but no proof gation through our Western herds，but no proof at
all that these herds were really infected．$\quad$ But to ale that these herds were really infected．
return to the infected districts in the East． one who will consider for a moment must see that to the nature of a disease they have never seen and the descriptions of which have come to them only through newspaper paragraphs，are not wort
the paper they are written upon．It must be evi the paper to all that men who will found their opinion on such a slender basis are very unfit objects of public confidence．Seeing Prof．Smith is no fur－
ther off than Toronto，and that he is so deeply in terested in this disease，why did he not come to New York in person and satisfy himself as to the true nature of the malady，rather than hug his ignorance and publish an implied censure on the
veterinary authority of New York，whose ability veterinary authority of New York，whose ability
I do not for a moment believe that he doubts．By paying attention to what has been already pub－
lished by the New York authorities，he could have lished by the New York authorities，he could have
ascertained the truth，but he has chosen to per－
sistently shut his eyes and call for an experimental
transmission of the disease by cohabitation，as if
that were not seen and demonstrated every day that were not seen and demonstrated every day，
and on a larger scale a thousand－fold than could be done in a few experimental animals under the eye
of an expert．For the sake of men who persist of an expert．For the sake of men who persist my pen；but for the sake of the many readers o furnish a few examples illustrative of our daily ex perience with this disease．＂
Those who desire to know more about this dis ease would do well to send and get a cop．
We have not heard of a single instance of Pleuro－ Pneumonia ever existing in Canada．We are in tirely died out；we have not heard of a case for nearly a year．The Hog Cholera may also disap－ pear in the same way；we have heard of no new outbreaks of it for some months．We believe that truth and facts should be made known，and the we can be on our guard if danger assails us．

## The Dutch Dairy．

holland cattle－their qualities and breeding At a recent agricultural meeting in Bay City．
Mich．，a very interesting paper on the＂Cows of Hoh．，＂，was read，written by Hon．James Bir－
Heyland U．S．Minister to the Netherlands．The fol－ ney，U．S．Minister to the Nethe
lowing is a synopsis of the same ：
Holland is the paradise of cows，but the term Holand in the a missinomer，and the＂Holland＂
or＂Dutch＂cow is rarely superior to the＂Hol stein．＂The Holland cattle are regarded the best known for yield of milk and cheese making． A dairyman who carries on a large business nea
Utica，New York，gives the result of his experienc hat the milk the Holland cows yield is greater buantity，richer in quality，and better adapted to species he has knowledge of．The genuine Holl nd cattle are almost in o a mouse or maltese color but they are regarded as a depreciated or half breed stock．One family of them is so definitely suppose they were black，with a perfectly white suppose they were back，with a perfectiy white
cloth bound round their bodies．In travelling all
through Holland scarcely a specimen of any other through Holland sc
color can be seen．
The Holland cattle are thoroughly short－horns， ery symmetrical，with long，straight back，small年 disposition they are notably gentle and manage． able．Their pastures are not enclosed by fences，
but by shallow ditches．Over these they rarely Dur
During the pasture season they run upon the lot are clothed with a blanket of hempen cloth，which eefends them from the fogs of the night，and the
ties of mid－day．They are milked with punctual ity．When the milker takes his seat，with a cord always at hand he ties their hind legs together， not be whisked about．Over the large vessel into which the milk is poured，when the pail becomes
ull，a fine strainer is placed so as to catch all full，a fine strainer is placed so as to catch al
foreign particles．The most perfect care is then of the lots in which they feed．Every few days a hand，and scatter the droppings，and supply the grass in healthy vigor．They practice here upon the theory that it is just as necessary to feed to
hand as it is to feed animals．During the winter the cows are confined in brick houses，constructed to afford the greatest possible comfort and con
venience under the same roof，and at one end o ve building the dairyman or herdsman has the
Between the residen
Between the residence and the stable is a large
apartment used for the care of the milk，and th cleansing of the vessels in which it is conveyed to
market．It is supplied with a stove and a well water．The stable is oblong，with a hall through
the centre，from which all feed is supplied，the heads of the cows on either side being turned
toward the centre．The flooring is of brick，and the cows stand upon a brick platform five feet six inches in width．Immediately behind this is a
gutter of the depth of eighteen inches，which
catches all excrements；still back of that is an
aisle or walking place．The gutter is thoroughly aisle or walking place．The gutter is thoroughly
cleansed every morning，and a stream of wate made to pass through it．The raanure is all taken to vats in the yard，and preserved for use． Above the rear of the cows a pole or cord is ex
tended through the entire length of the stable．To this the tail of each cow is attached in such a way hat when she lies down it is al ways suspende being plenty and cheaper than hay，is used for
bedding．By this arrangement the cows are kep being plenty and cheaper than hay，is used for
bedding．By this arrangement the cows are kept
entirely clean，and the milk never takes the odor entirely．clean，
of the stable．
The watering，feeding and milking of the cows is done with the regularity of clock－work．The the day with clean water．They are fed fre－ quently，and no more than thiey will eat in a short time．This mode is preferred，because
gives them intervals for rest，and their digestion is ives them intheir stomachs are not overburdened They are treated with kindness and tenderness． This induces contentment of disposition，an
keeps them from becoming nervous and feverish keeps them from beooming nervous and feverish landers are impressed with a belief that if they keep their cows warm their product of mik wine be
much larger than if chilled by cold air．There are grated openings in the upper part of the walls for ventilation，but they are not large．The walls are
thick，and the loft above filled with hay．And so thick，and the if hop enter one of these stables
it coming from the clear air without，you are almost
suffocated with its extraordinary heat and close This is the principal objection toth their system． Nor do they yet seem to have found it out．Every
now and then an alarm is raised throughout the country that some species of lung disease has shown itself among the cattle．The neighboring counties hear of it，and inhibit by stringent law summoned，and wherever they find a herd with the symptoms of disease they slaughter appraised process．The moment I entered one of these large stables，and felt the temperature of the atmosphere
breathed by these cattle and perhaps breathed more than once，it seemed to me that nothing short of a miracle would prevent lung disease．Whe spring comes the cattle are turned out as clean，as
neat，and with hair as smooth as when they went In from the green pastures．
it is a recommend
they become farrow，and cease giving milk，they take on flesh rapidy，and soon fatten．As meat brings a higher price in Holland than any othe
article of food，on account of an excise tax impose upon its consumption，cattle are sold at about
double the rates at which they may be bought in double the
America．

Green Fodder in France． M．（Goffart，the discoverer of conserve green for－
age for stock，is in the habit of publishing annually age statement of his experiences．This year his exception to an uninterrupted success．The system has not been at fault；the plan has suffered from bad weather and questionable seed maize．His
neighbors werenot more fortunate．While 40 tons per acre of green maize were yielded，in some cases not twelve were obtained．This latter retura is simply ruinous，when the heavy expenses of till－
age and manure are borne in mind．The choicest seed maize comes from Nicaragua，but it never
arrives in time，and is generally injured by the weevil．New York next supplies the best seed， ing；failing both，the ordinary horse－tooth maize 18
to be preferred．There is no longer a question employ the forage is to cut it before treading it into the trench or pit．A machine worked by hand is not to be thought of；a cutter driven by two horses
ought to chaff the green maize at a cost of six sous per cwt．，while an engine will do the work for two－ hirds less．It has been ascertained that a trench ight fect wide，and covered with earth， be only nominal if the trench be made double the width．Another point to be noted ：there is a irowing disposition forage all the year round． Generally one man，at 24 francs per day wages，is expected to care for th head of cattle，ed on beets，
turnips，hay，\＆c．，to cut the roots and provender．

The Old Shorthorn Bull Hubback. The bull Hubback, regarded in his day by Mr.
Bates and many other breeders of note as the Bates and many other breeders of note as
great regenerator ot Shorthorns, was calved in
1777, and was sold with his dam in the Darlington market. The purchaser re-sold the calf that afterwards became the famous bull to a blacksmith, for
one guinea, as he was taking the cow home. The one guinea, as he was taking the cow home. The
blacksmith gave the calf to his son-in-law, and he was brought up in the lanes at Hornby, aboot eight miles from Kirklevingtos. He changed hands
several times before he went into the Colling herd, several times before he went into the Colling herd,
which was not until 17883, when he was six years old, and then only at the suggestion of Mr. Charles
Colling to be used by his brother Robert and Mr Colling, to be used by his brother Robert and Mr.
Waistell until a calf which they were raising should be large enough for service. As soon as this time arrived Hubback was discarded, and Charles Colling bought him at eight guineas, the same that they
had paid for him. His color was a yellow-red and white and he was called co 'the was a yelle bullow-' Hed and
light.boned, very smooth, light-boned, very smooth, low, and a remarkably coat of hair. As asire hewas peccliarly impressive;
and Mr. Bates, who held him and his blood in the very highest estimation, says that " had it not been
for the bull Hubback and his descendants the valuable breed of Short-horns would have been entirely lost"'; and that no stock ought to have
been put into the Herd Book that did not trace to been put into the Herd Book that did not trace to
this bull. When he was ten years old Mr. C. Colling sold him to a man named Hubback, for thirty
guineas, and from him the bull took the name guineas, and from him the bull took the name
which has become so famous in Shorthorn history. Mr. R. Colling never appreciated the merits of
this bull until after he had sold him, and then he determined to retain all of his get that he yet possessed.-[National Live-Stock Journal,
In the above ybu see an account of the foundation of the present Shorthorn race, that are in demand in all parts of the world. Perhaps some of building up a name for a class of animals that will be in demand after the present owners are departed. There are other valuable breeds of animals besides Shorthorns. There are animals that give more milk and of better quality, and there are animals that fatten easier; also animals that produce a better quality of beef than the present Shorthorns do. Who will be the lucky man that can combine these qualities in a greater degree and judgment have done much, but nine - tenths of our farmers have not as yet paid sufficient attention to the care and selection of their stock; too many will sell their best and be content with the worst they have

Heavy Pigs, and How They Were Fed. 1 sold on Friaay, January 12,1877 , nine pigs that were just seven months and three days old, which weighed 2,730 pounds-an average of $303 \frac{1}{3}$ pounds each. These pigs were pure Poland-
Chinas, farrowed the 9 th of June, at a time when clover and other grasses had got a good start, to
which my sows had free access. This kept thei bowels in proper condition, and greatly increased the fow of milk. They also had (after the pigs
were from a week to ten days old) all the dry corn terey would eat up clean twice oa day, and as much
good, clean, cold water as they would drink. good, clean, cold water as they would drink.
This the sows had, and no more. The pigs were
weaned at twelve weeks ofd. weaned at twelve weeks ofd. As soon as were they
would eat I commenced feeding them soaked corn would eat I commenced feeding them soaked corn
in a shallow trough, placed where the sows could
not in a shallow trough, placed where the sows could
not get to tit. This was kept up until my new
corn got quite hard, after which I fed them new corn enough to keep them growing nicely until the
16 th of November, when I shut them up in a close pen, provided with a good, warm, dry nest, and a
small feeding floor. I 1 fed them all the corn they as they wanted. They were kept in this pen drink marketed. II am satisfied that they could have been made to weigh considerably over 400 pounds
each at ten months. I am well aware that the each at ten months. I am well aware that the
above pigs were not really an extraordinary lot, bot they were good ones. I made that lot of pipss
pay me about $\$ 1.85$ per bushel for the corn I fed pay me about \$1.85 per bushel for the corn I fed
them, and to the sow while she suckled them.them, and to the sow while she suckl
[W. I. Cram, in Live Stock Journal.

## Hogs-Feeding for Health.

 A writer in the Western Stock Journal says:-" One year ago last September tacked with disease of some kind, resulting in a loss of eight or ten old hogs and about forty spring pigs. The first symptoms were costiveness, or per haps in others looseness; they would lose their ap petites and probably linger a week before death oats and rye in small quantities, with alittle medi cine in slop, such as blact andime of lime in equal parts; dose, two teaspoonfuls in pail of swill twice a day. I also used kerosene,
soft soap, soda, etc. With this treatment I sul soft soap, soda, etc. With this treatment I suc
ceeded in saving qnite a number. After losing so
many Polands and Berks, the only way I could se many Polands and Berks, the only way I 1 could see
to profit by it, was to be more attentive to thei
wants feed more wants,
tion right, provide more comfortable sleepin places and keep the different grades separate. II
hogs are properly cared for in this way very little hogs are properly cared for in this way very little
medicine would be needed . Hogs shonld always
have access to salt and ashes,"

## Remedy for Engorgement with Mea

 Havin ler obtained accer the having never received satisfactory answers the through agricultural journals as to the prope method to be pursued in their treatment I give you an account of the successful treatment of $m y$ last two cases. When feeding my stock, one o back entry, where stood the meal chest and into not dinty, where stood the meal chest. She wa When found she was had fully gorged herself six drops she was put into a stable and given six drops of aconite, first tincture, in a littlewater, and then was immediately given half a te spoonful of powdered mandrake root, dry, on the tongue. By night she was voiding, meal freely and was let out. Two days afterwards I gave he
about half a bucket of water. On the second day she was confined in the stable, and was given suf ficient water to satisfy her at the close of the thir
day, though she required very little-about day, though she required
bucket and $a$-half, I believe.
The other case was one in which a cow obtaine access to threshed wheat during all one day.
knew nothing of it until the next morning. then gave her ten drops of aconite and half a tea spoonful of powdered mandrake root, on the
tongue. She began voiding wheat that night continued for four days, though of course less ap
peared during the latter ant peared during the latter part of the time. I gave
her a second dose of aconite on the evening of the first day, and two doses the second day. I als gave her about a quarter of a teaspoonflul of th
root, the mornings of the second and third days, though I cannot say it was necessary. On th second day, about noon, I gave her half a bucke
of water, and the same quantity once or water, and the same quantity once each day, a
long as she was kept in the stable. I have hear of cattle being deprived of water for a week, unde like circumstances, but where they seem to be
doing all right I like to give them a little. In doing all right 1 like to give them a little.
neither of the cases reported was there any per manent shrinkage of the flow of milk, though they
give very little while getting no feed and littlo give very little while getting no feed and little
watier. Ihpe any one so unfortunate as to be
obliged to have recourse to some such meane will give the above a trial and report the results
Beca give twenty-five or thirty, thinking good do no will do more good. Any one disposed to give such
doses can satisfy himself they are not required by dropping five drops into half a glass of water, and
taking a spoonful of the solution tleman.
During the week ending May 10th, both fresh Canada, in large quantities, reached Liverpool though the alss nce is still noted this season of the
large consignments of cattle which arrived at the commencenentent of last summerer. The totals wer
4,727 , tuarters of beef, 1,520 and and 175 pigs. Of live stock the collective consign
ments were ments were 370 head of cattle, 2,364 sheep, an
1,050 pigs, which was a marked increase pared with the previous week.

Tht Apiary.

## rtificial Swarming

You all know how annoying it is to have a hive of bees that will not swarm, sometimes hanging in clusters in front of the hive, idle for weeiss together during our very best honey season, when they made with division boards in them, as all hives should be, that they may be enlarged or diminish od at will, all you have to do is to slide back the division boarts, and put in empty frames, or what is much better, frames filled with artificial comb then take your smoker and drive the bees into the will swarm too often-swarming themselves death, as it is termed-casting so many swarm that they become so depopulated that they eithe fall a prey to the bee moths, or they are not fit to keep over winter. As you are aware, the great secret in bee-keeping, is strong stocks, therefore we return our late, or after swarms, to the parenthive, or winter them with other weak stocks, or they may be built up to fair colonies by giving them frames filled with artificial comb. But to avoid any trouble of this kind, you can divide your bee by making articial swarms, and the method wo of natural swarms. Take a frame of brood with the adhering bees, and the queen, and place them in the centre of an empty hive, then fill the hive with frames of artificial comb, or comb foundation as it is usually called, and set it where the old hive stood, and shake off the bees from three or fou rames from the old hive, at the entrance of the new one, and remove the old hive to a new location, ew yards away, and put in a frame of artificial comb in place of the frame of brood removed, and give them a young, ferie queen in the new hive the field to destroy the new queen. But the gros tion naturally arises, "how te we to thos queens? Will it pay to buy them, or can I rear my own queens?" Well, unless you have proper mean for queen rearing, and rear a large number at time, it will not pay to rear your own queens, es pecially at the exceeding low prices for which Italian queens can now be purchased, the prices being from $\$ 1$ to $\$ 3$ each. For the best methods of introducing Italian queens, see June number of the adrocan, and my circular on bees. The question colony of bees? By introducing Italizn the colony will become Italian as soon as the old bees die off, which, in the height of the season, will be from three weeks to two months.

In Bretagne, France, horses are fed ou parsnips tead of oats, and no complaints are made as to falling off in condition. M. Le Bian feeds his carriage horses exclusively on parsnips, and the amimals
that he now exhilits in Paris are superb. He sives ach horse forty pounds of the roots daily, distributed in three feeds; the expense of cullivating
one hundred weight of parsnips is twenty cents. Large yuantities of "parnsnip-fed pork" are made
by the thrifty farmers of the Channel Islands and writer, speaking from a whole season's experience, states that though less firm than that fattened on barley, the meat is infinitely sweeter and more delicate in Hlavor. He also recom.
uscful root for cattle and human kind.
The Grangers are having some more experience
of the changes and chances of Trade. Their Vapanee grain agent, Mr. L. A. Carscallen, has meet his engagements. Mr. McConnell a farmer of the neighborhood, has therefore issued a writ of attachment in insolvency against his estate.-
Monetary, Times.

## , 刃naixy.

## Keeping Butter in Summer.

In making a few notes upon that subject we shall try to keep in mind, not the improved refriger ators of the town and the city, but the conveniences of the country, and give our observations on the
causes of poor butter, so far as produced by storage. A majority of summer butter is poor because
every condition of good butter making is violated from the time the prospective cow is dropped til the last act of packing and storing the butter; and
such butter, with the best storage in the world such butter, with the best storage in the world,
would be inferior. But assuming that the butter
is is good, the question of summers storage upon ou
prairies is the one before us. A writer in the Coun try Gentleman makes a strong point on the salting try Gentleman makes a strong point on the salting
of the butter and the vessel used in packing. The lady says:-
Wood or stone makes the best vessels for pack-
ing butter, but opinions differ as to which exceeds ing botter, but opinions differ as to which exceeed in sour milk, then washed out and soaked one da
in strong brine, and then rubbed thoroughly witi in strong brine, and then rubbed thoroughly wit
salt, are the best, according to my mind. If E salt, are the best, according to my mind.
R. will pack the butter in such vessels after he has
worked out every drop of buttermilk, and salted by worked out every drop of buttermilk, and salted by the following receipt, I can assure him that he can
keep his butter from June to June as sweet as when first made :-
To every pound of butter add two heaping table
spoonfuls of the finest dairy salt, the same amount of granulated white sugar, and a quarter of a teaspoonful of saltpetre, pulverized very finely. These
ingredients can be mixed together, in this proporingredients can be mixed together, in this propor
tion, in large, wide-mouthed bottles, and kept for
use, After the churn has done its work, add th use. After the churn has done its work, add the mixture, and turn the crank in reversed order for
four or five minutes. The butter is thus salted four or five minntes. The butter is thus salted
without touching the fingers to it, and the housewife needs only to lift it out with a butter paaddle and pack it tightly in a firkin, or else form it into
tastefully stamped caken all ready for the table. The sugar is quite as essential for the preservation
of butter as the curing of hams; and every one knows that sugar-cured hams are the finest in the
market. The saltpetre can be omitted if the butter market. The saltpetre can
C. C. Bull, of Rock Falls, Wis., at the last meet-
ing of the Illinois State Dairymen's Association, ing of the
discussed the question,
Can Summer butter be so handled and packed that it will retain its freshness and sweetness fo
winter use? winter use?

Whether butter can be thus preserved so as to be good, sweet, old butter, without rancidity o
bad Havor, is a question which we believe can be answered in the affirmative, and we propose to dis
cuss it under the heads, viz:- As to the place of cuss it under the heads,
storage, the paekage, and the contents.

1. As to the place of storage :-

The first requirement is that it must bo a cool place. A cellar or other apartment the tempera
ture of which rises above 60 degrees do not believe will keep butter well under any con
ditions. Most cellars show a temperature of 65 70 degrees. A deep cellar protected from the hot rays of the sun, and remaining uniformly below the temperature of 60 degrees, sweet and properly
ventilated, is without doubt one of the very best places of storage for butter.
2. The package:-

Butter, to remain sweet, no matter what the air. In mid-winter, even, butter exposed to the
air will become bad; in Summer this will occur in much less time. The perfect butter package, there fore, will be air and water tight. The butter must be immersed (surrounded) by very strong, pure
brine-or possibly, as some recommend, by strong brine-or possibly, as some rend refined, sugar ad-
brine with a little saltpetre and
ded. It ithatters little what the shape, size or maded. It matters little what the shape, size or ma--
terial of the package is provided this object is attained. As it was intimated at the beginning of this paper, butter can only remain sweet, and
must be expected to lose a certain aroma and freshness of new butter. No long kept butter can be
expected to remain in the class of fancy butter. A fancy or expensive package, therefore, is hardly in place in handling butter of this grade unless it is by the trade. Now we know of no style of pack-
age so acceptable to the trade in butter, all thing
considered, for accomplishing the end desired, than the old style oak firkin. Properly prepared by
soaking in hot brine, afterwards in cold, and han dled in the approved methods, we consider it quite as reliable as any other, and cecidedy cheape opinion with our present knowledge of the trials 3. As to the content

The first thing to be said under this head is that butter to keep must be good he packing-and nothing but butter. It is well understood that ran cidity cemes from that in the butter which is no
butter-from the buteric acid which develops chter-from the buteric acian and the development of which is reatly hastened by bad handling; by the presence caseine, butter
ance not butter.
The shallow, poorly drained and ventilated and if this certainty is not enough there is added
aint of cabbage and onions. Driven to despera tion, some resort to hanging the butter in a well, a ew, have good springs. The important item to the an twelve feet, sides of stone and bottom well concreted. Windows should be arranged to give good ventilation, open at night and cosed durng
the day. Such a cellar will vary but little in temperature. Next to the cool, dry cellar in a spring house, and some prefer this to the cellar, a spring
house can be cheaply constructed near the well, house can be cheaply constructed near the well,
and with a wind-pump would be easily operated. Where there is considerable descent from the and vered with dirt, making it bank house, with til ipes for ventilation, All things considered, the
ceep, dry cellar, well ventilated, is the best for utter.
Cattle for the Dairy in England.
A correspondent of the London Agricultura Gazette writes to that journal in response to a call In reply to the inquiries of J. C. W., I have no doubt he will be able to improve his dairy greatly y the use of a pure Shorthorn bull of good shape selected in any of the principal cattle markets in the north of England where Shorthorn dairy cattle are generally kept. As they are brought for sale either newly calved or springing for calving, it is not difficult to judge of their milking capa-
bilities. The extension of the milk trade has caused a greater supply of newly-calved cows, \&c., to be provided for every month in the year, and on nany farms where dairy cattle are bred they ar producing their second or third calf. Are speciall noted for milking gualities; 1 cannot undertake oay which is bedt. which answered my purpose very well, and the stock of which have proved satisfac regard to dairy farming has appeared in past volumes of the Journal of the Royal Agricultural and the report of Mr. Jenkins on Ilairy Farming and trance, which contains some very interesting remarks upon butter making, are both well wort studying. The yield of two gallons each per day
of the ten cows of J. . . W., all the year round, is
one not an unsatisfactory return, if the cows are not
changed, as comparatively few cows give more han 730 gallons per annum. The vairy cow her self when barren or no longer desirable for milk-
ing, are important considerations in favor of a ing, are important considerations in market yes-
Shorthorn dairy herd. I saw in the
terday a number of pure-bred Jersey steers, two terday a number of pure-bred
years old, for which the breeder was asking
£ 10 each, and failed to get an offer for them. They
had been fairly well reared, and if they had been Shorthorns, with the same rearing, they would have been worth nearly double the price. more
owner avowed his intention of rearing no more
Jersey stecrs. Four out of the tive Jersey cows Tersey stcers. Four out in the last ten years have
which I have purchased in
cast calf cast calf or proved barren while stw young,
when sold fat realized less than two-thirds their
value if they had been in calf.

A Home Market for Cheese. To stimulate and secure an increased home mar ket, it is important that the factories should comnence in their own neighborhoods to make and inand the prejudices of as will meet the wants We believe we only state what is well known to be the fact, that in most cheese factory neighborhoods, ot one family in ten have cheese upon their tables dozen times in a year; and not unfrequently what hey do have, consists of a refuse lot too poor to
end to the city market. One obstacle in the way of a general introduction of American cheese in our amilies, consists in the large sizes which are usually turned out by our factories. We have, here-
tofore, and on several occasions, urged the making of smaller sizes, say from 10 to 12 or 14 mbs., ing.
or stead of from 60 to 90 lls. This want we have
heard expressed again and again in varions sections heard expressed again and ngainorant of the objections which are made to the manufacture of small heeses, but we think they might be overcome so
hat they would be more than balanced by the bat they would be more than balancea by the
bonefit to the community. If our chese makers
would turn their attention to this sabject, and would turn their attention to this subject, and
diversify their products in the manner indicated, both for the foreign and home markets, there is e increased to double the present amount, with a steadier market,
can Dairyman.

The Canadian authorities have decined to retion of American cattle into Canada, and have exended the time until Sept., 6 , if not sooner renuers of sporthorns art the late Chicago sale in a "bad fix."-Prairie Farmer.

The Whitchall Review, in quoting the wager made by Sir Roger Throckmorton, "'that between
sunrise and sunset a ooat could be made for him sunrise and sunset a coat could be ma, a for him
out of wool from the back of a sheep," and which
he won, adds : "An Austrian clothier has done all his in eleven hours, so that he really has outstripped the Berkshire
self from 4 a.m. to 9 p.m.

A slop made of corn and oats, ground in about
qual parts, with a little oil meal added, makes equal parts, with a thttle oil meal added, makes
the be st food for the sow while sucking, to in. crease the flow of milk; and this, with clover pasture and plenty of soaked corn during the summer,

will promote a rapid and healthy growth of the | $\substack{\text { will pro } \\ \text { pigs. } \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline}$ |
| :--- |

Intending exhibitors to the number of 651, incoming exhibition of the Royal Agricultural Society, Kilburn, Sngland. The machinery in mo-
tion will be a mile in length, and the exhibit of seeds, roots, manures and fecding stuffs fully half
a mile, if extended.

Professor Riley says that since his connection with the Department of Agriculture at Washing-
ton there have been sent to him four kinds of pa. tent bandages for trapping the codling-worm, but after examination he cannot find in any of them
any advantages over the simple paper bandages reany advantages over the simple
commended and used years ago.

One of the chief canses of pleuro-pneumonia in
cattle is believed to be a sudden change of temcattle is believed to be a sudden change of tem-
perature to which the animals are exposed. But on the other hand, if confined to warm barns, attention to ventilation must be given, as a putres-
cent atmoshere is very injurious, and one of the sources of disease.

It is said the leaves of mullen scattered among the corn in the crib will effectually preserve it
from the ravages of rats, and that corn soaked in solution of sulphate of iron (copperas) previons to
planting will not be troubled with moles.
$\qquad$
One of the agricultural resourcess of Texas is
bones. A San Antonio firm has shipped since hones. A San Antonio firm has shipped since
July 8 3,333 tons to the Northwest, where they are manufactured, and thence go East to be used
for fertilizing purposes. The price paid to the are mantiacting, puposes. The price paid to the
for fertizing
San Antonio shippers was 87.50 per ton.

The Drying Room.
The accompanying cut represents a drying room
the factory of Mr. H. Wall, in the township at the factory of Mr. H. Wall, in the township
of Westminster, about three miles from this city, of Westminster, about three miles from this city This one was recently constructed, and yet to hear of a better on this continent. It is a frame building, painted white, havin
green Venetian blinds covering the windows whe necessary. It is 26 feet by 50 , 10 feet high in th clear; it stands on posts 5 feet high. This gives room enough to have the heating apparatus below the floor. The heat is to be conducted in tubes along the floor under the cheese shelves when the weather is too cold, to ripeia the cheese properly. Ventilation is also admitted through openings in the floor; two openings are in the ceiling and two proper ventilators are on the top of the building.
This building cost $\$ 500$; the factory, with its appurtenances, cost $\$ 1,000$. One acre of land was purchased on which to erect them for $\$ 150$; it is a corner lot. A. stream of water runs near the factory is to be conveyed in a tube to a field on the

## Cheese.

The cheese market looks bad, but we hope for better prices "by-and-by." We again urge on our dairymen to deliver good milk, and the making of only the finest kinds of cheese. Any large uantity of poor cheese now pushed on the market by the fi>est goods.

## "Fi 11, Fat, Flaky and Fine Flavored.

 cheese-buyer on the Utica market to us,day, "the first dealer I ever bought for ne more about cheese than I ever learned
r since. His unvarying order was: 'Buy $t$ all t , in aky, and fine. fla vored cheese.'" Here hat helps to impress it, on the mind-" firm, fat, always find a market and a consumer, if any will, and there is money in it if in any. In these times,
when prices are low, markets are dull, and conwhen prices are low, markets are dull, and contimulate and give impetus to the dairy business.
If low prices and fine quality will not increase low prices and fine quality will not increase consumption, what hope is there for the dairymen?
There is certainly none in inferior goods. One of

## veterinary.

## The Glanders-Another Warning

We clip the following from the Agricultura Wazette (E) following from the Agricultural illustrative ot the contagious character of the loathsome disease:
This frightful plague has long been known to be year or so ago since an English country gentlema whose life was a precious possession, not only t himself, but to his servants, tenants, friends and family, suffered in the same way, and from the
same cause. He found himself suddenly attacked -after he returned from town-by symptoms which he coul advisers hesitated to give a name A return to London to consult a prominent physi
cian became necessary, and the interview elicite cian became necessary, and the interview elicite
the following statement:-"Your disease is th glanders; I have had half-a.dozen similar instance
in the last twelve months. You cannot possibl in the last twelve months. You cannot possibly
recover, though you may live till winter." A mos recover, though you may live till winter." A most
searching review of all the occurrences of the searching review of all the occurrences of the
previous few weeks revived $a$ recollection of a


DRyIN: ROOM AT the
ther side of the stream of water, thus avoiding the causes of the present depressed condition of drive in a Hansom cab to the mail train, and of all ball odor that might arise from the souring of $\begin{aligned} & \text { the dairy business is inferior products, both } \\ & \text { butter and cheese. There has been a failure to }\end{aligned}$ the whey or from the pig pen. erect a factory and cooling room. The majority in use on this continent are not as good or as ex pensive as this. It will be the duty of this journal to attempt to keep its patrons posted on the best furnish the best information we can procure in re gard to the markets. If any butter or cheesemaker or dealer in any part of the world can or will give better information regarding this important branch of our industry than this journal has done and is doing, we should be most willing to pay a better sum for such information. If erroneous plans or erroneous information are given at any time, the pages of the journal are open to the public to correct us; no one is infallible. Those
of our patrons who favor the public with useful of our patrons who avor the public with useful those who withhold useful hints or avoid open dis. cussion are not always the most useful members of society.
the dairy business is inferior products, both o
butter and cheese. There has been a failure to
place before consumers such a palatable article as to induce the habit of free consumption, and many have learned to get along with a moderate amount
of butter, and to nearly or quite avoid the consumption of cheese. Whereas, in all these years, they ought to have learned to consume dairy products to the maximum amount, and to regard them
as necessaries instead of luxuries. In permitting people to learn to dispense with cheese and retrench
pit butter, the dairymen have madd in butter, the dairymen have made a grave mis-
take, and the cause of this mistake may be attake, and the cause of this mistake may be at-
tributed largely to the improper use of the skimmer in cheose manufacture, and to careless making and packing in the butter dairy. It will take
years, and perhaps the education of another geneyears, and perhaps the education of another gene-
ration, to overcome the evil.
But the only safe and sure road to pursue is the manufacture of
better products. Whoever puts none but fine better products. Whoever puts none but fine
goods upon the market, not only has an advantage in price, but is encooraging consumption and preparing the way for a larger demand and better
prices for others as well as himself. Therefore amid the gloom of the present and the uncertainty of the future, our advice to dairymen is to put
upon the market only "firm, fat, flaky and fine
flavored" cheese.
some offensive foam having been driven in by the enger. How could this contagion have possibly been avoided? and what terrible far-reaching
misery, and how many broken ties ensued from an misery, and how many broken ties ensued from an
occurrence which, but for combined greediness and occurrence which, but for combined greediness and
neglect, never could have taken place ! To allow mad dogs to roam the streets would be a monstrou wrong to the community, and to prolong the
istence of a glandered horse is even worse.
Remedy for Black-Les.-John Railbank, of Remedy for Black-Lesi- - John Railbanky, conperas in the tank where they were compelled to
drink. Prior to this he had lost drink. Prior to this he had lost some twonty
calves, and the symptoms were rapidly developin calves, and the symptoms were rapidly developing
in others, but were immediately checked, and the entire herd speedily recovered.
Half-drachm doses of powdered sulphate of iro (copperas) mixed once daily amongst the food, has
been recommended to be piven to been recommended to be given to cows that have
previously aborted. It is thus given during the previously aborted. It is thus given during the
month preceding and the month following the moriod of their last abortion provided, of course that they are in calf again. The use of copperas
for cows that have not previously aborted is unfor cows that have not previo
necessary, and may do injury.
(Gayden aud (0)rchatd.

## Training Trees.

When at the International Exhibition in Paris, France, last year, we saw trees trained in various forms, some illustrations of which we have given
yon. We now give you two of the most remark.
yon. We now give you two of the most remark-
able. The church (fig. 1) shown here was the most perfect model of training and pruning an ever. green we have ever seen. The spire and vane the porch was cut out and trained out and trained
in the inside; the in the inside; the projecting. What must have taken to train and keep this model of evergreen in such a
tate of perfecstate of perfec-
tion! There was not one black spot about it. An artist could not have drawn or constructed a building more complete
$\begin{array}{ccc}\text { Fig. } & \text { e } & \text { repre- } \\ \text { sonts } & \text { a } & \text { grape }\end{array}$ sonts a grape-
vine. This vine vine. This vine brought in a dry

 | state. En |  |
| :--- | :--- | :--- |
| of these angles where the wood crosses were grown | of the survival of the fittest, we presume. There | together as firmly as of one piece. In our last $\begin{gathered}\text { are few aphides on se rews they must not by any }\end{gathered}$ issue we gave you some instructions how this be apmight be done, and for what use it might be a. plied. We hope some of our you the past month made a few improvemes too late even in the earl perhaps it would not be too late even ho so sure

part of this month, but you-would not be of success. You may attempt the pruning of an cvergreen at this season. ceapt for allowing the few to become many, to the
ceipt
destruction of the roses. On the contrary, let the ceipt for all owng the roses. On the contrary, let the
destruction of the dew be squeezed between finger and thumb, or
furshed off with the aphides brush at once. Also brushed off with the aphides brush at once. A Aso
hunt for and destroy caterpillars, green, grey and bunt for and destroy caterpilars, green, it needs a
blacke These abound this seaonon, and
quick eye to detect them lurking beneath the quick eye to detect them lurking beneath the
canopy of green leaves. A more formidable foe
still is red rust still is red rreen leaves. or fungus. Aore formidabecific has yet yot
been found for its destruction. All sorts of nos. trums have been tried and failed. sulphur does not touch it, nor hot lime, nor soot. nor tobacco
water, nor soft soap, nor Gishurst, nor Abyssinian

Rustic Garden Fence.
H. M., Oakville, Ont., asks for a plan of rustic

The Queen of Flowers. highest perfection, they must be shaded from the The suer was upon the whole not unfavor. Sun for at least two hours on either side of noon. able to roses. The result was a fair number of $\begin{aligned} & \text { The majority of other rose blooms, for exhibition } \\ & \text { or other purposes, must be sheltered from heavy }\end{aligned}$ able to roses. The result was a fair number of of or or orer purposes, must oe sheleered from heary flowers of average excellence, and what was of rains. greater moment as affecting this season's roses,
fair growth and well ripened. Condition makes fair growth and well ripened. Condition makes
all the difference in the ability of plants to resist $\begin{aligned} & \text { the opening effects on roses of } \\ & \text { a hot exhibition room or tent. }\end{aligned}$
unfavorable influences.
It is also pleasing to observe how good health
It robust prowth seems to resist the attacks of
and row els
disease. Plants crippled by climate are at once
and robust growth seems to resist the attacks of
disease. Plants crippled by climate are at once
attacked and finished off by aphides and other in-
Gas Tar and Curculio. A correspondent of one of our exchanges gives
the following plan for destroying curculio :Put the tar into a long handled
fryingpan, heated fryingpan, heated
with coals just so the tar will not
blaze, and walk through the plan tation. The cur-
culio will imme culio will imme yond the fume
of the burnin tar, and will no return so long a
any of the fumes
rem remain This system of
fumigation might
be commenced as fumigation might
be commenced as
soon soon as the fruit
is fairly formed is fairly formed,
and should be
kept up as often kept up as often
and as long as
is necesary and as long as
is neeossary thro,
the geason, say
twice per week, twice per week,
and directly after
a shower of rain. When there is

but a light breeze of wind, by passing along the windward sides of an orchard the entire planta-
ion will be impregnated with the fumes. I have tion will be impregnated with the fumes. I have
no trouble with curculio in plum orchards thus no troul.
treated.

Experience in Forestry.
In the current number of the Journal of Fores-
ry, Messrs. Maule, of Bristol, England, relates try, Messrs. Maule, of Bristol, England, relates
how a bog in South Wales, which was not only useless but dangerous, was reclaimed by planting
it with black 1 talian poplar. The trees grew so it with black 1 talian poplar. The trees grew so
well that at the end of fifteen years, when they were cut down, the produce realized $£ 13$ per ane num per acre for the whole period of fifteen years, num per acre for the whole period of theeen yeur, it
during which the crop had ocupied the groud, it
luckily happening that the poles were wanted in a neigh boring
cooper - works;
thestrong roots of the trees running through
the underlying the underlying
clay thoroughly clay thoroughy
drained thebog.
letting of the letting off the water that no
woy ther process of
draining can ac:drainingean ac
complish. comppe dyys of
theereat demand
grat for packink.
fases, the tim-
ber of the pol ber of the pol.
lar is very valu-
able, and the able, and the
tree has the ad-
ditional proditional pro-
be cut down in a wood is used for fuel, put into an $\left.\begin{aligned} & \text { pher } \\ & \text { pour hot water upon it. When cool use it to water } \\ & \text { checking the evil is by picking off the red blotches } \\ & \text { of the fungus, and carefully burning the leaves. }\end{aligned} \right\rvert\, \begin{aligned} & \text { perty of arriving } \\ & \text { man's lifetime. }\end{aligned}$
your plants every few days. When it is all used, of The buds of roses should be thinned when fine . In thinning, it is well to The manure of cows and pigs resists decomposiup the pitcher again upon roses that have almost leave buds of different sizes, to ensure a successiond tion for a longer time than that of the sheep and
 hopelessly deteriorated, is wonderful in producing $\begin{aligned} & \text { of result is a grand rose show for a week or tw } \\ & \text { the rest }\end{aligned}$ a rapid growth of thrifty shoots, with large thice $\begin{aligned} & \text { to be followed by months of greenness anly. } \\ & \text { Roses should now be fortified, if at all weak, by }\end{aligned}$ Never despair of a decaying rose bush until this $\left\lvert\, \begin{aligned} & \text { Roses should ns of house sewage or guano water. }\end{aligned}\right.$ has been tried. as well
shrubs.
fence for his gar
that each must that each must
follow his own inclination. As to pattern, we give you this one (fig. 3). We do not say it is the neat appearance.

Soot Tea for
Soot Tea for Roses.--Get boot rom a chimney

## Seasonable Hints-July

## by hortus.

To have fine fruit, fine trees, fiue crops, \&c., re quires constant care and never ceasing industry. Not that there is very heavy manual labor abou No such wearying work as making brieks or tasks of that kind, but still there is never any time to of that kind, but still there is never any time to
leave off, and for those who love to tend the orchard and theflower garden, they always have their chard and the lower garden, they always have their
reward in the shape of some fine fruit for the table, or if flower-lovers, they can inhale the fragrance of some newly opened roses.
In all labor there is reward, and self-gratification, and he that grows a tree from a tiny seed up, grafts or buds it, prunes and attends to it all the time till it puts forth the blossoms, and bears its frait, enjoys a pleasure that cannot be understood by others
till they have gone through the same experience till they have gone through the same experience.
Such a man is a benefactor to the country, and leaves it all the better for his living in it. What most fruit-growers are apt to forget in regard to their treas, is then full sense of the wond them rave hardin in kinds in good, healthy condition, they should re ceive good cultivation. The ground of an orchard should be well drained, good, large, sensible drains not easily choked up by roots or settlings. It should receive every year a liberal dressing of manure and ashes, and if cropped every year, allowance should be made, when manuring, for both crops and trees, giving each their share. The trees should be annually pruned; most care being required when young, to give proper shape to the tree. They may be pruned in March, and againin July. They should be pruned any time, ratherthan not at all.
To get back to where we started about the ten derness of fruit trees. To get them to do well at all, in our severe climate, they must have the
whole time the best treatment. There are a great whole time the best treatment. There are a great
many causes for the deterioration of our orchards. Some seasons are wet, and the soil not having good drainage, and the winter being very severe, the tree gets nearly frozen out of existence. Other seasons the trees bear so much fruit that it weakens them, the whole functions of the tree has been devoted to perfect an enormus crop of fruit which will take it years to recover from the injurious effects. Bad pruning, we think, kills more trees than all other evils combined, and is the most lamentable, from the fact thatit might be prevent ed by a little study and enquiry by the pruner it be possible to move, so an see, and one, could hibitions, that would be very instructive to farmers, and that is an apple tree, say fifteen or twenty years old, with its branches evenly spread out, and the whole head, branches and trunk, in good shape, and healthy condition, not showing a sign of knife or saw, and the branches so disposed This would be well worth seeing, and here again we say that a saw should never be required in pruning-the knife should be brought into use in time that nothing else would be wanted.
Any signs of fireblight in the pear should be re il at onec, this is the only way to check this evil, at present known. This remedy applies, like wise, to the black knot in plum. We advise the
use of plenty of lime in the soil to counteract the use of p
Attention is directed to the insects-a disgust ing and annoying pest is the slug, which infests ing on slacked lime or sand. Hellebore, mixed with water and syringed on, effectually destroys them. The past few Summers the green fly has

| been very troublesome. For this we soak tobacco |
| :--- | :--- |
| in water, and mix some lime with it, and dip the | affected branches in it, or sprinkle it on in the affected

evening;
strong.
To stim

To stimulate the growth, and increase the size grapes, we recommend the application of
liquid manure. This used often in moderation produces astonishing results in the shape of large well ripened fruit, monster cabbages, and hand some specimens of flowering plants that cannot fail to be prize winners at the Exhibitions.
If you have any apple, pear or plum stocks that were grown from seed, they should be budded spring, and are now growing freely, you may wait till the growth shows signs of stopping, which can be easily observed. Pears can be grown with th ountain ash used as a stock, but to make stand ard trees the buds are put on pear stocks importe of experience to make a better stock than those raised from seed here, suffering less from blight and rust. For dwarfing the pear the quince proves the best stock as yet known, and the pear, d'Angouleme, succeeds better on the quince, mak ing larger and finer fruit in every respect than grown on its own stock. Some kinds will no succeed at all worked on the quince-for instance, the Flemish Beauty, and also some others. T vercome this difficulty, nurserymen frequently double work them-that is, they first bud som kind (maybe White Dayenne), and when these aro ne year old work on them the kind wanted.
For dwarfing the apple, the Paradise and Don cain stocks are used; Paradise stock mostly employed. Dwart apple treos come into bearing pace to in that Stang but hall the paluable to parties having limited grounds or to persons living in towns or villages. The following varieties of apples need never be grown as dwarfs, as they come into bearing sufficiently early them elves without this aid; they are: Red Astracan, Duchess of Oldenburg, Hawthornden, R. I. Green ng, and some others.
The art of budding is a very interesting and simple operation, and every person in possession o garden, or intending to make one, perhaps, in he Prairie Province, should make themselves amiliar with it. Provided with a knife, which an be purchased made for the purpose, an trings or nuating, with cions of this summer rowth of the knds make a start by making a $T$ cut on the stock, on with the thin end of the knife handle. Select bud that are well developed, those nearest to bese ion are the best. It is advisable to cut the bu thinly, and about an inch and a half long, havin the bud in the centre. When cutting off th cions, the leaves should be removed immediately, or else they will soon evaporate what sap is in the cion, and thus render it useless. They should be cut off, not pulled, leaving about half an inch of stalk next to the bud. When the bud is all pre pared, slip underneath the bark, seeing that th bud is fairly in the centre, and that the bark he stock its evenly on all sides. Wind the string ven the whe lhe (bery lim an to cover the bud) and knot firmly. Tho but will have taken sufficiently in three week to have the strings removed.
the strings removed.
ies, \&c., may be made thing shrubs, gooscber mulched and occasionally watered they will be found well rooted before fall.

## The Orchard in Summer

Those who have fruit trees and shrubs should
attend to them now. The first half of the seas attend to them now. The first half of the season is by nature allotted to wood growth, the rest of
the season to ripening or hardening this growth, he season to ripening or hardening this growth,
otherwise the frost of our winters would destroy it, or that part which is not matured, points in the spring, usually on young and only igorous-growing trees; and the young and only ead points is always acco
It is an easy matter It is an easy matter to force the growth, and ender as it is, it then wilts and frost arrests it he case whe untimely frost occurs in sum, as is therefore of importance that the ground is not too rich, which, however, is rarely the case. lly in heavt to be dreaded is late enrichment, especierruptedly, till arrested by the frost. The true ipened so as to stand the frost; and this require the experience, though directions can be given
thinitiated that will be of use. Our soil, such as we find it, is not generally rich enough for a full nd successful growth. It requires manure or cul ivation, or both, according to circumstances, and
different manures may be used. Cultivation alone has a wonderful effect, especeially in a drouth; this
repeated during the first half of the season repeated during the first half of the season. If the
weather is dry I follow the working of the soil weather is dry 1 follow the working of the soil
with a mulch of cut grass or weeds. This keeps moist for some time. In about two weeks I re move the mulch, stir the ground again and replac not, unless quite wet. With the next working o oil I work in the mulch, which is then rotten and aully the soil mechanically, and with material suitabl for plant food. If the soil is quite poor, let the mulch be of coarse barn-yard manure. A sprink ing of wood ashes, leached or unleached, is alway said of bone dust. Either should be worked into the soil a little. If the ground is a stiff clay, coal shes, applied plentifully and well mixed with th soil, will loosen it and greatly improve it, de
ing also fertility in its action upon the soil. There is one thing of importance that is not generally understood: it is the breadth of space to
be worked. The roots of trees and shrubs extent great ways. In an orchard of advanced extowth a great ways. In an orchard of advanced growth fore, the entire surface needs to be cultivated o-
enriched. Where the soil is shallow and the trees enriched. Where the soil is shallow and the trees are rather close, freequent and large quantities of work of roots being immense. If not given the
rees will suffer, show dead limbs, and now and rees will suffer, show dead limbs, and now an
hen a dead tree, the fruit small and lacking in lavor.
It is not absolutely necessary that the ground of an orchard be cultivated, as is so strongly recom tif desired, clipping the grass frequently with awn mower, in which case the growth (the clip pings) remains to enrich the soil. But the manur ingle trees or shrubs are treated, a wide space is to be cultivated or manured, say six to ten feet nd more in a large tree, as the roots extend much of a few feet in diameter cultivated or manured is is the too common practice, is of very little benefit to trees. Saw-dust, muck or leaf mold
will also do for a mulch, and may be worked in he soil with benefit; but coarse barn-yard manure is the best of all mulchers where the soil needs fer is the
tility.
The
import
The ground thus being attended to, the next mportant point is the thinning of the fruit. Few
hings in fruit culture are of more importance and more neglected. Where there is a heavy set, a only is left. This greatly improves the fruit in ize and quality, the amount being nearly or quit he same as if all had been left to grow, with the dessens the number of seeds which draw upon the vitality of the tree. The strain, therefore, is less, and the crop improved. It now requires, also less enrichment. In no case avoid thinning out
the fruit. Do not think it may pay with a few trees, but not with a whole orchard. If the treat ment of one tree affords profit, that of two wil
afford a double profit, and so on to the entire num afford a double profit, and so on to the entire num
ber.-[Utica Iferald.

## Insects and Orchard Trees.

 During fruitful seasons, the orchardist is prettyand sure to give particular care to his trees, and from
the fact that, in examining the fruit, attention wi? be especially called to insect depredators. In seasons when there is no fruit, cultivators are
apt to neglect their orchards, at least so far as keep apt to neglect their orchards, at least so far as keep-
ing them free from canker worms, leaf rollers, and such insect pests as are not plainly to be seen, and
the work of which is usually noticed in the genera bad appearance of the trees. It will be admitted, however, that it is fully as important to keep the
trees intact from insects in non-bearing, as in bearing years, since by this division of labor the
work is thereby lightened, at least, in full bearing
years.
It is absolutely necessary this year that orchardists, and especially farmers who seek to cultivate
what fruit they need for family use, and to supply what fruit they need for family use, and to supply
some local demand, pay careful attention to their some local for, beinga light year for fruit, they need save all they have; and if insects are kept well down this season, there wail heretofore called attenThe Prairie Farmer has heretofore called atten-
tion to the efficacy of whale oil soap for cleaning the bark of trees, and especialy for syringing the as useful for leaf rollers and other insects that infest the foliage, and also for bark lice at the time they are hatching and moving forward on the
bark, which is usually from the last of May to the middle of June, from Central Indiana and Illinois and corresponding latitudes north, according to the
location. South of the latitude of Indianapolis, location. South of the latitude of Indianapolis,
but little damage is done by this, the oyster shell but little
One of the greatest friends of the farmer, and especially the orchardist, is our common prairie
ants which build their mounds wherever chance ants which build their mounds wherever chance
offers. They are indefatigable hunters of canker worms, and also destroy various other insects that
they can manage. They ought to be protected, they can manage. They ought to be protected,
and even transplanted into the orchard whenever practicable.
Practicabie. most extensive and best known of Illinois orchard ists, he gave us his formula for preparing whale oil soap for syringing trees and plants. It is as fol
lows :-For 40 gallons of rainwater use 4 or 5 pounds of soap, or enough to make a strong suds. pounds of soap, or enough to 10 cents per pound.
The cost of soap is from 8 to
The soap should be first broken and stirred in just The soap should be first broken and stirred in just enough water to thoroughly soften and mix with
it, and then add to the rest of the water. Then add to each 40 gallons of water a quart of kerosene. The kerosene forms a kind of varnish which causes
the whole to adhere, and prevents its washing off the whole to adhere, and prevents its washing of
easily. To this the Prairie Farmer would sugges the addition of a quart of impure carbolic acid
such as is obtained at gas works; and, for washin such as is olstained at gas wrees a gallon or more o the trunks and limbs of trees a gallon or more of the acid cannot be easily obtained, half an ounce o orude carbolic acid may be had of the druggist, to
be used to the 40 gallons of suds; and for the trunks, three or four times this amount. It wil be found a good investment either for the nurserywall be found beneficial to the trunks and branches, cleansing them from moss and insect larva, and in imical to leaf-eating insects generally
VICk says that in the majority of our orchard
nearly half of the fruit is not marketable, and this is the legitimate result of ignorance and careless ness. Trees are allowed to grow as they please,
producing, in many cases, such dense heads as to prevent proper maturity of fruit; they are allowe
to over-bear, producing a few good specimens and a great many poor ones. We must learn to give
our trees judicious pruning, remove all surplus fruit as soon as set, leaving on only those the tre can mature; give good culture, top dressing with
proper food-and then we will not spoil three barproper food-and then we will not spoil three bar-
rels by selecting one fit to send to market. When
Americans learn how to grow and pick and pack Americans learn how to grow and pick and pack
apples properly, we shail have an allost unlimite Copperas water-a solution of sulphatc of iron--
jpounds to 40 gallons of water, is recommended 5 pounds to 40 gallons of water, is recommended
as valuable for tomato plants at three applications during the season of growth. It is reported as
increasing fruitfulness and earliness, and prolong. ing the season. Iowis plants.

## Effect of Climate on Plants.

 Observations made during the Arctic Expedition ave brought to light one or two curious facts in connection with the powers of growth ponsessedby different plants under varying conditions of cli mate. American research has proved that the and sown in another, will germinate earlier or later, and with more or less vigor, according as the
new climate is warmer or colder than the old. And even a perceptible change of climate is not re
vuired to show these results; a difference of a few degrees only in latitude is sufficient to do so. For of England, will germinate and ripen much mor quickly than wheat of exactly similar quality gathered in the South and play.
latiunde in which it was grown.
This fact is of the utmost importance to agriculturists. To secure early-growing wheat, it is only necessary to take care that the seed is gathered
a colder climate than that in which it was sown The process is perfectly practicable, as it might be The process is perfectily practicable, as in mi North
so arranged that the wheat sown in the North
should not be consumed hut should not be consumed, but preserved for seed
for the next season in the South. The same thin is noticeable among other plants, and florists and horticulturists might take advantage of this cir cumstance to produce both earlier and stronge
plants than they do now, without the appliance pror forcing.
Another curious fact is that seeds-especially wheat-will stand an immense amount of col
without injury. Some wheat left in the Polar gions by Captain Hall, of the Polaris, in 1871, and found by Captain Nares in 1876, germinated and produced hoalthy plants when sown under glass ooard ship
Captain Allen Young, of the Pandora, has on
board his yacht a curiosity in the shape of a ros tree, grown in England, which has been on boar ever since he left England for the Arctic region
When in the Polar cold the tree drooped, and $t$ all appearances died; but as soon as the vesse reached a warmer climate the rose tree revived, and is now in full bloom and in a perfectly healthy
condition. The functions of life had been sus. pended while the tree remained in the cold latitudes, but they were not destroyed. This fact is curious, as tending to prove that a tree which will
stand frost at all wwill bear almost any amount of cold; and also that, if its natural growth and development are retarded at the proper season, the till the next normal period, but will continue its development at the first, opportunity, which, in ghis case, after the occurred in the more moderate cold-the cions, occurred in the more moderate coldIt will be interesting to see if this plant blooms naturally
Country.

## More of Borers.

The Round-headed Apple-tree Borer (Saperda
bivittata of Say) deposits its eggs in May and June. bivittata of Say) deposits its eggs in May and June.
It is essential to keep the base of the tree free from It is essential to keep the base of he
weeds and trash in May, after which the lower portion of the trunk should be freely soaped, and
Viley suggests placing a piece of bar soap in the Riley suggests placing a piece of bar soap in the
crotch of the tree to be washed down by the rains. Soft soap in the same situation was recommended by early writers, but the bar-soap is doubtless bet
ter. The trees should be examined in the Fall, and any worms which may have hatched in the easily detected in their young stages than after they have gone deeper into the trunk; besides they
can be dislodged with less injury to the tree. Where the Flat-headed Borer, which works in the branches and limbs, is at all troublesome, the soaping should extend to this portion of the tree to cannot be made to apply to the borer of the peach tree (.Egeria exetiosa), as it is a very different in sect (in the perfect state a kind of mit, and not beetle), the eggs of whe the application of soap does
months later; besides not deter the female from depositing her eggs upo his insect, removing the grubs with a sharp knife ashes around the base of the trees in the Spring
has been recommended since the first writings has been recommended since the first wringing
Fitch. For trees badly affected, removing the earth and pouring in hot water
ficacious.-[Charles R. Dodge.

## How to Preserve and Restore Plowers.

 Flowers may be preserved in a fresh state for aOnsiderable time by keeping them in a moist tmosphere. Those who love to see plenty of be gratified by adopting the following plan :-Pour
water into a Hat porcelain or glass dash. Set a ase of tlowers in the dish, and over it place a bell glass, with its rim in the water. The air
which surrounds the flowers, being confined beneath the bell glass, is kept continually moist with the water which rises with it in the form of vapor. As
ast as the water is condensed it runs down the fast as the water is condensed
sides of the bell glass back into the dish; and if means were taken to inclose the water in the ort
side of the bell glass, so as to prevent its evaporat side of the bell glass, so as to provent
ing into the air of the sitting-room, the atmos phere around the flowers would remain continually damp. Those who wish to "linger on the beauty ox a rare tlower or a bouquet will be repaid by tried inverting a tumbler over a rose-bud in a saucer o water.
Another method, by which some flowers may be preserved for many months, is to carefully di water, and after allowing them to drain two o three minutes, to set ther upright, or arrang
them in the usual manner in an empty vase. Th gum gradually forms a transparent coating on the surface of the petals and stems, and preserve
their figure and color long after they become dry their figur.
and crisp.
Faded flowers may be generally more or less re stored by immersing their stems in very hot water,
and allowing them to remain in it until it cools, they have recovered. The cooled portions of th stems must then be cut off, and the flowers place of faded flowers may be restored, but there are some of the more fugacious kinds on which it proves useless; but flowers may also be preserved little of the solution of carbonate of ammonia an a few drops of the phosphate of soda. The effect of this, in giving the flower a deeper color and
stronger appearance, is quite wonderful; and by cutting off every other day about one-half inch the stems of the flowers with a sharp knife, they
may be kept as long as their natural life would
last

## Transplanting

So far as transplanting is concerned, all that is necessary for success with any plant that will bear
transplanting at all is to press the earth pretty firmly about the roots, leaving a little depression thereabout; give sufficient water to reach the lower roots, and when the watcr has entirely
sunk in the earth, draw the dry soil over all. As to how well or how ill the planting may be done,
or whether the work be done fast or slow, this can or whether the work be done ast man or boy who
only be learned by practice. A mater can learn to be a really good plowman, should
have no difticulty in becoming both speedy and have no difticulty in beco
accurate in transplanting.
This, however, is not all. He must know something of the nature of the plants he cultivates.
The tomato is strictly a tropical plant. It is also The tomato is strictly a tropical plant. It is also
essentially a dry weather plant. Do not, thereessentially a dry weather plant. Do not, there-
fore, transplant, north of latitude 43, before June, and let the space where they are to be set be
drawn up into pretty high and broal hills. Have drawn up into pretty high and aroal if the plant is
the roots at the proper depth, and if pretty long, and perhaps spindling, lay it along the ground, covering with about two inches of earth, leaves to the air. Thus you will have what will eventually make a good plant. If you endeavor to
make it stand straight you will fail, unless the plants have been well hardened in the beds, and water as before directed, you are certain of success. The same rule will apply to all plants hav-
ing straight shoots, as cabbage, sweet potatoes, egg-plant, pepper, etc. In planting, set them deeper than they stood in the sed bed, or well up
to the first leaves. Plants with spreadiny leaves to the first leaves. Plants with spreading leaves,
like lettuce, cannot, of course, be planted much, if any, deeper than they usually grew.
Do not be afraid to transplant now. There is
yet plenty of time to get tomatoes fit for use and yor canning before frost comes; so with pepper, or canning before frost comes; so with pepper,
egg-plants and sweet potatoes. July 1 to July 20
is early enough for late cabbage, and the middle of is early enough for
July will do nicely for celery.

## Work that Must be Done

## july．－vegetable garden．

 Hoe the advancing crops，to kill the weeds andstir the soil ；watch weeds narrowly，for they are rampant．
Plant a new crop of celery in rows，three feet Plant a new crop of celery in rows，
Transplanting is best done in cloudy weather．
Keep the plants wet．Puddle the roots．Much Keep the plants wet．Puddle the roots．Much
depends upon pressing the soil firmly againgt the roots．
Plant pickle crops early this month，as，also
and salads of all kinds，and radishes．
Plant beets and carrots for young roots，and
sweet corn to supply the table late in the Fall． freet cornt garden．
When strawberries are entirely gone，weed the When strawberries are entirely gone，weed the
bed thooroughly．If new plants are wanted；enrich bed thoroughly．
the soil between the rows and let the old ones run．
When raspberries cease bearing cut out the wood
which bore the fruit，and train the new growing which bore the fruit，and train the new
canes．They will bear fruit next season．
Raspberries may be stopped in their upward
growth，by pinching，when at three or four feet， growth，by pinching，when at teree or four feet， the tops will cause sidebranches to grow，and these
are to bept in control by pinching when they the tops will cause side branches ogrow，anen they
are to be kept in control by pinching when
have grown as long as desirable．If well pinched have grown as long as desirable．If well pinched year．
Thin out gooseberries the first of the month．
Use the berries for cooking．Those left will grow Use the berr
the better．
flower garden
The lawn must receive special attention．Mow when needed，and no oftener，and it is not generally likely to need coarse weeds．
Verbenas will have begun to run，and should be pegged
pose．

Carnations should now be increased by layering
Ornamental shrubs may be easily propagated from the cuttings of this season＇s growth，set in sand soil under a well shaded sash．
Roses will need attention．Cut back the Spring
whoomers．Shake off rose－bugs and use whale－oil soap for slugs．Do not be afraid to pluck the first soap fors that bloom．The plants will，later in the
flower season，be the better for so doing

## Hedging．

An Iowa farmer writes out his way of hedging with the honey locust，as follows，in the Western ing down a few stakes in the line of a young hedge， and drawing through the tops of the hedge plants
a single wire，fastening it to the stake in the usual a single wire，fastening it to the stake in the usual
way．This young hedge was plashed by nicking way．The ground and laying over at an anctic of about forty－five degrees last spring．The object in putting the wire through it at this time，is to make sheop，\＆c．，into the part of the corn fields already husked．Now tor the exhibit of economy．One
hundred rods of such fence as would answer the purpose of restraining my stock as well，would
cost $\$ 125$ in cash．I find by careful estimates the cost of plants，of setting，of culture，of plashing， than $\$ 25$ ，and the only cash expense of this is the one wire，and this was drawn out of a hedge row where it was no longer needed．
Mr．Chas．Trubner thinks it probable that not planted in the Western States live to bear a ful crop．He tells Colman＇s Rural that one reason for
this discouraging mortality is found in neglect of this discouraging mortality is found in neglect of
the simple precantion to wet the roots before set the simple precation to wet the roots before set
ting，which causes the soil to adhere closely，so
that they can begin feeding at once．He put out that they can begin feeding at once．He put out
an orchard of 200 trees a month ago，using only a an orchard of 200 trees a month ago，using only
single bucket of water for all；still they are doing single bucket of water fort to lose one．He con－
well，and he don＇t expect
siders that subsequent irrigation is entirely in siders that
necessary．
One－fourth each of sand，leaf mold，chip dir
nd well－decomposed manure makes an excellen composition for putting your house plants in for
winter．

## Eoultry．

## Profit and Loss in Poultry

Poultry is a source of profit or loss，just as it is well or ill cared for．In this respect the business of poultry raising does not differ from other kind
of business．More depends upon the manager tha on the breeds of fowls selected．There is differ ence in breeds，some being more profitable tha have their good and bad qualities，and all are sus－ heptible of profitable management．No breed， however，need be expected to yield profit or satis
faction if not properly aared for． action if not propery sared for
There are two great mistakes made by amateur
poultry raisers，and by some professionals．Now poultry raisers，and by some professionals．Now
and then one may be guilty of both mistakes，but
the great majority the great majority，whether they have many or
few fowls，are guilty of one or the other．Poultry，
especially hens，are either too closely confined to especiall hend prolific，or are given a too free range，
be healthy and

expending their energies in rambling and making | $\begin{array}{l}\text { expending their energies in rambling and making } \\ \text { nuisances of themselves．In the latter case they }\end{array}$ |
| :--- | may be healthy，but will not do as well as if kept within reasonable bounds and made to acquire more domestic habits．The more they ramble the wilder

they get，and begin to more and more approxi－ they get，and be
mate wild fowls．
Most farmers give too free a range to their
poultry，especially in the summer．They may have a miserable place to root in，summer and winter，and from this fact suffer during the night
time unless they get disgusted and show bette sense than their owners by taking to the apple trees or other outside places．But in the daytim
they roam fancy free，often making serious depre dations in the garden，hiding their nests under the fences and bushes，and generally making themselves as happy，mischievous，and unprofitable as possible，
Smothered or frozen in winter，they consume all Smotrered or frozen in winter，they consume
their vital energies in sustaining life；and roaming scratching and foraging at large in summer，they have buta a small amount of surplus vitality to ex－
pend in eggs．So poultry kept in this way is not pend in eggs． only ungrofitable，but too often becomes a nuis－ ance at home，and a pest to the neighbors．We
often hear of the unprofitableness of barnyard often hear of the unprofitableness of barnyard
fowls．Give the best breeds such treatment as this for a few years and they will become common barnyard fowls．This is the way to make them
But give them generous food the year round，warm But give them generous food the year round，wa
and airy quarters，plenty of sunlight and ampl grounds of their own to roam in，and they will im－ prove rather than degenerate，and
pleasure and profit instead of loss．
It is an almost fatal mistake to keep fowls in too confined quarters．They must have ample and
airy，clean and sweet quarters to stay in over nigh airy，clean and sweet quarters to stay in over nigh
and shelter them from storm．These conditions are demanded by all kinds of higher animal life
The fact that haman beings are crowded togethe The flose，unventilated rooms，affords no valid rea son why animals or fowls should be uncomfortably
crowded．In the case of the human bipeds，no one crowded．In the case of the human bipeds，no one
may be interested in the profit to be derived from may，but in the case of the feathered bipeds the owner is directly interested．It is for the benefit
of his pocket to keep them as healthy and thriving as possible，that he may get the largest profit out
of then．He must give them plenty of breathing of them．He must give them plenty of breathing room，for nothing is of more importance than air，
and keep them everyway comfortable and satisfied All fowls need space to roam and forage in dur ing the day，in summer time．Fifty hens ought to have an acre devoted to their use－certainly not less
than half an acre．And this space should be than half an acre．And this space should be open，sunny and sheltered places，cozy and shady open，sunny and sheltered places，cozy and sopers
nooks，and if it can be stocked with grashopper
and other insects，so much the better If these and other insects，so much the better．If these are
not present，animal food must be supplied，as well as grain．There should be grass，and other green food may be cultivated for their stuff in their
grounds，but they allowed to help themselves Trounds，but they allowed to help themselves． will not only yield the most profit，but
palatable and nourishing eggs and flesh．

For a feed for young chicks I give hard boiled
eggs for the first few days；after that 1 take raw eggs and mix with meal and bran to a stiff dough，
adding a little water so it will not be so stieky． They are very fond of this and grow nicely．－H．K．
in Poultry Nation．

## GLEANINGS．

From her $35,000,000$ acres England realizes a
nnual product of the value of $\$ 150,000,000$ ． The cost of commission，handling and ocoan
reight on dressed beef sent to English markets is reight on dressed
$2{ }^{3}$ cents per pound．
My past year＇s experience just confirms what have always thought ：that if you do not kil
weeds at the right time－that is，when young－ you will have to spend a great deal more time and money than you ought even for experiments． In Pennsylvania the owner of property on
which trees are planted along the highways hat his road tax reduced at the rate of $\$ 1$ for each four trees planted．The trees must be living one year after planting，and be well protected from
animals．Injury to such trees is punishable by fine．
S．，writing from Syracuse，N．Y．，says ：This
section can scarcely calculate upon ordinary hal section can scarcely calculate upon ordinary hal
crops of grain and grass．Nothing so bad has ever been experienced in this county．I venture to
predict that hay will sell for $\$ 20$ per ton in our predict that hay w．
An Illinois farmer writes：Early sown wheat is locusts appeared，and are still eating it．I think they have destroyed one－fourth of the wheat on last years breaking
the wheat generally．
That the quality of hay is very materially de pendent on the time of cutting is well known to tanding after it has blossomed the greater is the increase of indigestible woody fibre，and the greater the diminution of soluble nutritive constitu－ Sme remarks apply to the clover crop．
It has been found in England，from repeate pound of mutton，when the turnips are fed sheds under favorable conditions；but fed in the open air it will take 150 lbs．to produce the sam quantity ．Here is another argument in favor
shelter for domestic animals．$-[$ American Culti vator．
A writer in the Country Gentleman remark for destroying the potato beetle，keeping the weeds down is one of the essential elements o success．He tound some eggs fastened on th In destroying the weeds，therefore，we are pre venting a large increase of slugs．
About 500,000 tons of manufactured manures containing a soluble calcic phosphate，are annu
ally sold in Great Britain．， ＂superphosphate of lime＂was at tirst made by
acting upon bones by oil of vitroil；but it is now almost altogether prepared by mixing sulphuri with bone－ash，bone－black and various minera phosphates．
The mania for nitrate of soda will cause ultimat loss to many a farmer who is not aware that h
should concurrently apply in the subsoil plenty of phosphates．Its tendency to make crops look green and promising deludes many a farmer，wh thus gets color and often mildew，instead
healthy increase．Its price will come down as healthy increase．
rapidly as it has risen．
The period at which clover is cut for hay materi－ Wolff，the amount of nutritive substances in red clover at beginning of flower is 11.26 per cent．；
red clover in full flower， 13.04 per cent．Red clover hay，cut at beginning of flower，contained 55.43 per cent．of nutritive matter，while $t$ t
cut in full flower contained 46.07 per cent．

Clover．－The writer of Wanshaken Farm
Notes says：Whenever we seed down we shall use twelve pounds of clover seed to the acre，along with the grass seed，with the expectation of re
ward－not only in the cut grass，but in the con ward－not only in the eut grass，but in the con－
serving influence of the clover roots，their physical serving infuence of the clover roots，their physical
action，and other beneficent effects on succeeding crops．
Davger ce Eating Cucumbers．－Dr．Leidy，of
Philadelphia，has discovered that cucumbers are liable to be infested with tape－worm．At a meet－ liable to be infested with tape－worm．At a meet－
ing of the Academy of Science he exhibited a specimen of tape－worm taken from the inside of a specimen of tap
large cucumber．

## andriculture.

Failure in the Growth of Seeds. The Royal Agricultural Society of England have received from
A large number of samples of seeds have been examined by me during the past few months.
My attention has been specially called to th seeds for permanent pasture. The result of careful experiments with numerous samples, and the dissection of a large series of seeds, have shown
that great disregard is paid, at the time of collectthat great disregard is paid, at the time of collecting, as to whether the seds attain a considerable size -as in the rye grasses, or even in Timothy grasseasily detect the presence of any considerable quantity of imperfect or undeveloped seeds. But
in the grasses with small seeds, or with seeds that in the grasses with small seeds, or with seeds
are small relatively to the glumes or chaff which are small relatively ore difficult to determine
surround them, it is more
whether samples are fully ripe. The foreign surround samples are fully ripe. The foreign
whether sam
grower-for our grass seeds are, with few exxep-grower-for our grass seeds are, with lew excep-
tions, imported -perhaps unwittingy, collects
them while they are still unripe. The result is, that a large percentage never germinate of such grasses as meare vernal grass, \&c. In some mixtures of per sweet verran grass, of Poa trivialis and Alopecurus pratensis has ger-
minated, and on examination I have found that minated, and on examination I have found that
this was mainly due to their being gathered before they were ripe. In many cases they had been gathered before the flower had appeared, and the unexpanded stamens were still inglosed in the
blossom; in others the seed had just begun to form.
form. It is difficult to saggest an efficient remedy for
this this serious evil. to be almost worthless from too early harvesting would no doubt in time tell upon the grower through the merchant and importers,
though this is necessarily a somewhat roundabout way to reach the source of the evil.
But failure in growth is not always due to unripened seed. I have recently examined a sample
of black oats, of which a member had sown four bushels to the acre, and expected a thick crop. The sample consisted of large and fully ripened grains, bat only 32 per cent. germinated. In the
remainder the embryo was dead, most probably because the seed was old, though careless har vesting of the best crops may speedily destroy the
life of the seed. Seve of the seed. cases of injury to cattle through the pre-
Sever
nee of noxious substances in their food, such as sence of noxious substances in their food, such as
ergot, poisonous weeds and yew twigs, have re ergot, poisonous wee
ceived $m y$ attention.

The Hop Prospect.
The Utica Herald, in speaking of the much
lked-of decrease in the hop crop for 1879, says In making the following estimate, we have In making the following estimate, we have
been guided partly by what we have seen for our selves, and partly by what we hear from persons residing in different parts of the country. We
believe, taking all things into consideration, the elieve, taking all the poor growth of the vine and the very general slackness in cultivation,
and
that 20 per cent. is a moderate estimate of the that 20 per cent. is a moderate estimate of the
amount by which the hop crop of 1879 will fal amount by which the hop crop of 1879 will fal
below that of 1878 . The damage is already done, and no amount of care will develop a crop in those yards which have already been so shamefully ne-
glected. But it will be worth the while for those who have yards that are in fair condition to watch them closely, and give themish to look for high
Even then it would be folish
prices, but it seems quite possible that good hops prices, but it seems quite possible that good hops and business principles would dictate that those
who have fairly good yards should cultivate them who ha
well.

Derf Plowfic.-Tnose who have plowed the grounds deeply this spring may have a fair yield keop the plows and cultivators running as con
stantly as they ought to till the corn is laid by But those who have plowed shallow cannot hope
for half a crop, unless we have frequent and copiou for half a crop, unless we have frequent and copious
showers within a short time. Every farmer ought showers an inch or two deeper every year. The
to plow an
deeper the soil, the better able it is to resist drouth.

## Do Not Mow too Close.

There was true economy in the advice of the farmer who recommended that the lower joint of ass ther the foeld for for her. He was one f the nan be cut and cured for who had learned there is nothing gained by cutting too close The testimony with respect to the height from he ground at which it is best to cut grass is con
icting and tends to confuse and oftentimes mis lead a novice in the hay-field. Cultivators vary in sible, to four inches. The general tendency is, however, to cutt close, and many fin
have been seriously injured therefrom
Close observation has taught that timothy can ot be cut low, in dry weather especially, withou the sward should be avoided. Many of our mos successful farmers cut timothy nearly or quite fow
inches from the ground. Others, in gauging mow ing machines for this grass, take care to run them so high that it will
noint above the tube
Close mowing of upland meadows ought also to be avoided, as the action of the hot sun and dry the grass unfavorably when left without some pro grounds will bear cutting as close as possible these are benefited by the influences which would dry and burn up an upland meadow. Again,
where the practice is followed of top-dressing the meadow immediately after taking off the grass, th nowing may be done low, and
left to cut over the next time
Generally speaking, grasses cut two inches high when shaved close to the ground; the finer grasses, as a rule, when the season is not a very dry one, can be cut lowe
$[N . Y$ Y. World.

A Promising Crop Prospect
The past four years have been remarkable, not only for comparatively large yields of nearly all land in cultivation. So far as can be judged by the extent of seeding, germination and earl
growth of the present season, another fruitf year is to be added to the series. There has bee a slight increase of breadth of wheat, the surfac
devoted to corn west of the Mississippi has bee greatly enlarged, and a majority of the Cotton
States have added to their acres of the world great textile. There are symptoms of an agricu
tural revival in the East, and even the staple bread-crops are demanding more attention. The appears to be no material extension of crop area in the Middle States, but a tendency to greate
thoroughness in culture. diversion from cotton to grain and grasses in the
South is exceedingly slow of accomplishment; while the acreage of corn and wheat increases, that Everybody wants everybody else to "diversify. Eveu in the wheat-growing belt of Texas the out rapid extension. In Nebraska and Dakota the enlargement of grain fields is most noticeable this year, and next in Minnesota and Iowa. Kansas
has a million and three-quarters acres in wheat, as a million and three-quarters acre
which is little more than the last season.
The starting of winter grain was slow. Well covered by snow in the Northern belt, there was ittle injury by freezing, an exemption not so full dry fall in the Middle States was unfavorable for adequate root growth, rendering the early spring since has been generally satisfactory. In Texas the spring was early but dry, and the drouth in April became very general and serious, and con-
tinued till about the 22 nd, when drenching rains put an end to suspense, assuring vigorous growth of grass and corn and cotton, while grain crops
were too far advanced for more than partial recuperation. There was also an injurious drouth in ht the West. The seasonable rains of the last ew weeks have dissipated the incipient gloom and
inspired strong expectation of a rich harvest of all inspired strong expectation of a
kinds of grain.-- [N. Y. Tribune.

Celery for Nervousness.
A writer familiar with the virtues of celery as a nerve tonic says: "I have known many men and women, who, for various causes, had become so much affected by nervousnoss that when they
stretched out their hands they shook like aspen leaves on a windy day, and by a moderate daily use of the blanched footstalks of celery as as alad
they became as strong and steady in limbe as other people. I have known others so nervous that the east annoyance put them in a state of agitation, were also effectually cured by a moderate daily nse of blanched celery as a salad at a meal time. I of the heart. Everybody engaged in labour weakand onions in its stead when not in season." An extract of celery makes a nourishing drink, and is excellent for people who have lost nerve strength
by over indulgence in alcoholic liguor also excellent for canary birds; they are little animals, with very delicate nerves, easily frightened, and therefore they need such a remedy very much, and their instinct guides them to eat what
proof that the is good for them.

## Pruning in Due Season.

What is the season for pruning, is a disputed uestion. A writer in the N
on the subject as follows :-
"When pruning is delayed until the season's
growth is nearly completed, as in July and August, gowth is nearly completed, as in July and August, after the resources of the tree have bean largely oxhausted by the season's growth destroys the bal. thee existing between the roots and branches, and the result is that the growth is checked and the
vitality of the tree reduced. On the contrary cutting a tree back or pruning it between the time growth ceases in the fall and the time it starts in the spring tends to increase the vigor of the tree,
for the reason that there is a constant deposit of plant food made in the different parts of the tree uring the cessation of growth. The sap is seldom entirely inactive during this season. If, therefore,
the tree is deprived of a part of its branches a this time the same amount of matter that would
have been distributed among the many branches is eposited in these that are left. The consequence cases buds push out and produce water sprouts. Sherefore pruning during the fall, winter or early pring increases the vigor and enlarges the produc
tion of wood in the tree, while pruning in late summer has the opposite effect of checking growth and producing fruitfulness. In most cases of prun-
ing, however, neither of these ends is sought; the object is to remove surplus branches without either diminishing or increasing the vigor of the tree,
therefore the wisdom of choosing betten extremes; a good time being, I think, abont May
or early June."

While ten men watch for chances, one ma make chances; while ten men wait or something to
turn up, one succeeds, and is called a man of luck the favorite of fortune. There is no luck like pluck, and fortune most favors those who are in

Forty head of cattle at Shelburne Falls, Mase. re reported as having given signs of pleuro.pneu Last week we stated that a car load of Short-hor Mass., passed through Chicago, from Shelburne, dvised Woitemen to have nothing to do with Eastern stock unless after sufficient isolation they happen to have imported pleuro-pneumonia with their bulls, they will pay
stock. - [Prairie Farmer.

Tobacco speedily exhausts the soil in which it grows as may be judged from the large amount of
ash which it contains. Every ton of perfectly dry leaves carries off from the soil from four to five much as is contained in fourten tons of the grain
of wheat. much as is
of $w h e a t$.

Buckwheat-Its Varieties and Culture Of all grains grown on the farm, doubtless buckwheat is one of the most profitabes, since the labour
employed in growing and harvesting a crop is onehalf that bestowed in the growing of oats, wheat,
etc. In some sections of the country particularly etc. In some sections of the country, particularly
in Ohio, Pennsylvania, and some of the New England States, this is an important product, for the reason that it flourishes comparatively well on poor
soils, and is usually a sure crop to plant. Its uses soils, and is usually a sure crop to plant. Its uses
are various, and the demand always good. Its use as one of our principal bread-stuffs is well known, and "hot griddles" are a necessary appendage to every good break ast, particularly during the
winter and spring months. When mixed with other grains, especially corn and oats, it makes $\&$ most excellent kind of provender, and is greatly lent, as it is of a heating nature, and for this reason should only be fed in moderate quantities. For
poultry it is one of the best grains we have, and is ponltry itas one of the best graios by refuse wheat. Buckwheat requires a light, warm soil, mellow and not over fertile, and, like beans, when planted on
rich soil, the straw is more abundant than the grain, and therefore too rich soil is not favorable for a large yield.
Properly speaking, there are only two sorts,
the black or brown, and the silver hull. The first variety is mostly planted, and is excellent for all the purposes for which the grain is used. The latter sort is claimed by some to be much superior
to the former, while others who have tested it pronounce it inferior. The silver hull ripens a few days earlier and continues longer in bloom, while
it is claimed by some growers that the yield per it is claimed by some growers that the yield per
acre is nearly double under the same conditions. The grain is of a tine light gray color, varying slightly in shade, and the corners are much less promi-
nent than in the ordinary variety, while the husk is a trifle thinner. "The flour is whiter, more like wheat, and is quite as nutritious" as the black variety. As a honcy plant it is quite valuable, but
gives a dark shade to the comb and is heavy bodied, gives a dark shade the the is ordinarily good, though not equal to that made from white clover. The seed should rate of from three pecks to a bushel to the acre, rate of from three pecks to a bushel to the acre,
and should be harrowed and bushed in. It is a rapid growing grain, and matures in September,
and should be cut before the grain is too ripe, to avoid shelling. Cut when the dew is off; and after the straw is dry rake into little bundles and stand one end, giving the top a little twist, so that
straw will hang together and not fall over.
The vield or and soil is from fifteen to fo

The yield on good soil is from fifteen to twentyfive bushels to the acre, the former figures giving about the average yield. The straw heretofore has late experiment made in steaming and adding a
late
little meal has resulted in proving conclnsively that late experiment made in steaming and aading a when fed in small quantities it can be utilized as a
very good mash for stock. There is doubtless very very good mash for stock. There is doubtless very
little nutriment in the straw, but when sprinkled with meal it becomes valuable and palatablle. It is said to be of a loosening nature, hence it may be fed
with decided advantage during the winter. A with deeided advantage durng the winter. A by occasionally feeding the straw iu connection
with hay and oat-straw, will no doubt result in with hay and oat-straw, will no doubt result in
decided good to farm stock. Almost every farmer has some piece of ground a lapted to this grain, and, whle not rich enough for corn and other
grains, will produce a good crop of this sort of grains, will produce a good crop of this sort of
wheat. On new land the crop is most abundant, whille the grain is plump and large. We can con
fidently recommend the growing of buckwheat to fidently recommend the growing of buck wheat to
all who do not ordinarily grow this important product. It will help to eke out the other sorts grown and the result in feediag will be satisfactory.-
[Scientific Farmer. Scientific: Farme

Level or Hill Culture for Cors. corn have little certain foundation except as and matter of expediency. As a general rule, the pro
cess of hilling corn covers the weeds and at the same time renders necessary a yuite thorongh cul
ture. To grow corn on the flat system reyuires ture. To grow corn on the flat system reypures a
effort to refrain from hilling. We ourselves, as
matter of practice, hill. Were it not fur weeds me would prefer a level field of pulverized soil to a ridged tield with a soil onty purverizent mulch,
hills. Pulverized soil acts as an efficient mult In our
and conservez water during a droght. own practice we throw the dirt against the plants
in order to cover weeds, and thus to a certain ex-
tent hill; but we as well pulverize the interspaces

## The Hay Crop.

The cutting and saving of hay in June is more general than it was in former years. In this, as in improvement. In former years it was rare to sed any meadows mowed before July, but now many have their hay saved by the 29th of June. Some, however, is to be mown in this month, especially old meadows, and to these the following item on haymaking, from the Live Stock Journal, canno be amiss. English farmers, as a general rule, com mence cutting their grass early in June, and gener
ally finish about the middle of July; and the En glish hay is deoidedly the best owing to its being glish hay is decidedly the best, owing to its beine
earlier and greener, and to the greater pains taken to save it properly:
Considerable discussion has been had in regar rule can be given to apply to all cases, there has
to ting and been established a principle that should govern. ment is daily added, the mower should be kept
from from the field; but there comes a time when
rapid change in fibre takesplace. The whole force of the plant is directed to the maturing of the
seed; the concentrated elements are turned in that direction, and in the same proportion, woody fibre is increased in the stalk. It is just at this point
that the grass should be cut; a few days often that the grass should be cut; a few days ofte
make great changes if cut too early the imperfect ed juices are liable to sour; if too late there is too much fibre. Some advise to cut in the stiff dough
of the seed, when the process of curing will sul of the seed, when the process of curing will sub
stantially mature it. Cut in the morning, or so late in the evening that curing is not advanced.
Then avoid baking in the sun. It should be ex Then avoid baking in the sun. It should be ex
posed to the sun as it falls from the mower, till ab uut half cured; the process should then be perfected in the windrow. In very dry weather rak ng can commence frequently in three hours afte cannot condemn too severely the system followed by many farmers of catting alarge amount of gras
at once, merely to expedite work, and leaving exposed to sun and dew for several days. It is not worth more than one-half well managed hay. In
case there is much clover in the hay, it is doubtcase there is much clover in th
less better to add some salt.

The mower and the horse rake have become in dispensable to hay-making, and doubtless the hay-
loader and horse-fork will soon be regarded in the same light. We have the best authority for stat-
ing that the hay-loader and horse-fork will enable two men to stack or put in the mow from four $t$ six times the hay they could
mon fork in the same time.

The Swedish Turnip.
The earth should be well removed from the roots, lateral roots, which detract from the value of the bulb. The horse-hoe should be freely used between
the ridges both before and after the plants are singled. The best horse-hoe is a small grabber having five chisel-pointed tines; the depth to which the soil is stirred gradually increases from 4 to 12 during the driest weather. The constant and deep stirring increases the absorptive and retentive power of the soil, and when efficiently conducted
is the best known means of preventing mildew in the swede crop. This system of deep stirring beteen the rows is more difficult to carry out when the crop is grown on the flat. The root crop is of
vast importance to the stock farmer ; quantity and quality are both essential conditions. The great aim of the practical man should be to grow a heavy
weight per acre of roots of high nutritive value weight per acre of roots of high nutritive value
rather than strive to grow individual specimens of gigantic size; medium-sized roots are usually of the greatest speciic gravity. Although we have
grown 32 ton of swedes per acre on ridges 27 inches wide and the plants set out 14 inches in the rows, as a rule we have grown the heaviest weights per between the rows and nine inches from plant to plant. These are the more common distances
where drilled on the tlat; the great disadvantage of this method is that the narrow space between
the rows prevents the practice of grubbing or deep stirring from being so successfully carried out. A that of allowing the roots to remain unharvested after they have become ripe.
catimeltanedus.
A Novel System of Brick Burning.
bricks made in twenty-four hours, an
ondo for cor. housand
Quite a startling novelty in brick burning is
eported from England and is said to be in success ful operation. The kiln, in its construction, resembles a single tunnel, about 108 feet long, 8 feet
wide and 11 feet high to the crown of the arch wide, and 11 feet high to the crown of the arch to a strong iron wagon with a clay top, standing close the machine, and when 50,000 have been set in
oosition, it is taken to the inlet end of the kiln which contains nine wagons, and as the load of green bricks is admitted at the inlet end, one is passed out at the other end ready for the purchaser. side of the kiln in the centre of the length, while those from the centre to the outlet end are cooling, and those from the centre to the inlet end, wher small chimney stands, are getting treated, and
in their turn are subjected to the direct action of the furnaces; four to six hours complete the burn-
ing operation. It is surprising, considering the ing operation. It is surprising, considering the
small structure, the quantity that can be passed through, 15,000 to 20,000 per twenty-four hours, which are burnt at a cost of only 3 d. per 1,000 , through the stages of drying, burning, and cooling does not exceed three days. The iron wagons do reely under the clay bottom, but is excluded from costing about $\$ 2,500$, including wagons and al ppliances for working it. If used for temporary in working, wheeling on barrows is avoided. There are no stacks to build and plaster, and the waste of bricks that are used for that purpose avoided very much preserves the quality, and about 20 per ent. of the labour used in brick making is avoided, supplied in three days.
[We extract the above from the Canadian Me
The Grangers as Bankers. The Grangeris an universal genius. By education, for storekeeping, grain speculating and -a new development-banking. To succeed in all these extent of knowledge which no class, in this or any other country, does in fact possess. And to tell the truth, we fear he is generally deficient-oftel
lamentably so-in the know!er se which he ought to possess of his own callir": He would be sadly alarmed if he were called , pon to undergo an ex
mination in one-tenth of the subjects which scien tific men tell us he ought to be acyuainted with. It is notorious that he is deficient in scientific and lecrease as the original richness of the soil becomes exhausted; and that, instead of becomi", richer because he is wanting in the necessar: nowledge him with this want of knowledge; 1 ut it is well that he should be told of his deficiencies and if pos-
sible be induced to make an eflort to supply then The improvement of his condition depends upon his better understanding his owni occupation ; and it
can only tend to delude him to tell him that he is fitted to carry on the business of merchant, banker,
grain speculator, besides working his farm to the grain speculator
best advantage.
Our advice to the Granger is to let banking alone
His true interest lies in perfecting the knowledge His true interest lies in perfecting the knowledge
of his own calling, and in applying that knowledge
in a way greatly to iny in a way greatly to increase the annual produce of
the country : the only way in which a nation can the country : the only way in which a nation can
add to its wealth. These paper nostrums are a delusion and a snare, which, first befogging, would
afterwards strangle the farmers who afterwards strangle the farmers who should put
faith in them. - Monetary Times.

Wire Fevciva, -The Washbum Manufacturing
Co., of Montreal, informs ns that the wire fence only requires one pust in 20 feet, and some yut
only one in 25 feet. They claim that the wire fence is much cheaper and better than the rail or
board fence. It is our opinion that board fence. It is our opinion that it will come
into general use. All contemplating fencing
should enquire into it.

CORRESPONOENEE
. $4-518+2$
Notrics to Corrgspondpsts. -1 . Please write on one side i.nce, not necessarily for publication, but as guarantee of good faith and to enable us to answer by mail when, for any reason, that course seems desirable.
communications to be noticed.
c. Mo Not expect anonymous Manuscript," leave open, and postage will be only 1c. per $\$$ ounce.

## The Potato Bug

SIR,-I should like to know from some of the
numerous readers of the ADVocate if there numerous readefs the to take the place of the Paris Green to destroy the potato bug. I have never had a good crop of potatoes since I com-
menced to put on the Paris Green, four years ago. I put about a tablespoonful to a pail of water,
but I find that after I sprinkle them that the leaf begins to wilt and wither, so that I think the Paris Green is an injury to them in preventing
them from coming to perfection. The fall wheat
does not look as well around here as last year. them from coming to perfection. The tall wheat
does not look as well around here as sast year.
Where the snow lay on long in the spring it is Where the snow lay on long in the spring it is
quite thin. quite thin.
A. S., Tara, Ont.
[We have not found Paris Green to cause the
wilting of the leaf of the potato plant, though the winting of the leaf of the potato plant, though the to the quality of the potatoos, by preventing them now coming into use, and used as Paris Green, called London Purple. It is said to be less costly, fully as effectual, and less dangerous in handling; is a new cure, but we have no experience of it. It is worth a trial:-For the last five years I have nolant. Get a barrel with a few gallons of gas-tar in it ; pour water on the tar; always have it ready when needed; and when the bugs appear give sprinkler or otherwise, and if the rain washes it off and they return, repeat the dose. It will also the old long potato bug worse than a threshing with a brush. Five years ago this summer both kinds appeared on my late potatoess, and I watered
them with the tar-water. The next day all Coloradoes that had not been well protected from the sprinkling were dead, and the others, thoug

## Pruning Pear Trees, etc.

 SIR,- Will you please inform me through theADVocate the proper time and method of pruning ADVOCATE the proper time and method of pruning
your pear trees. I have some Clapp's Favorite and Flemish Beauty trees which have been planted three years. Last summer they made o very long
growth, and the boughs are so limber that the growt, wind will soon unbalance the tops. (1.)
west
Would it be right to cut away say one half last year's growth. (2.) Should young growth on fruit
trees, where the limb is not re fuired, be cut away or left until the wood has ripened? Caterpill ers in this vicinity have only been about one-third as
plentiful this season as in that of $1877-$.
A.S. B. plentiful this season as in that of
Demoritsville, June 2nd, 1879 .
[(1.) Yes. You might remove half of last year's
growth, and bring the head of tree into uniform shape. The early part of this month is the best growth not wanted for fruiting, or growing in such growth position as to be objectionable. This may be
a
done now and better than at any other time. Cuts done now and better than at any other time. Cuts
made on the tree heal over rapidly at this season.

## From New Brunswick.

SIR, - The weather has been very cold since June
came in; have had a very fine seedtime, but the grain, on aceount of the cold, is is back ward. Grass promises well yet. A very much larger breadth
in rootst than unual. Markets very dull. There has been one lot of cattle shipped to England from
here this spring, with a satisfactory result. We here this spring, with a satisfactory result. We
hope that more shipments may follow. H. F.
Point.de-Bate, June 17, 1877.

## Hungarian Grass.

A St. Hyacinthe subscriber writes:-My hay
crop is so light that without some additional fodder I cannot bring my stock through the winter. Is
it too late to sow will feel obliged by your reply in the FARMER's
[Hungarian Grass is very profitable, both for cutting green for stock and also to add to the if sown at once. This crop can be sown at any time from the first of June to the 10th of July, but the later it is sown the richer the soil ought to be
made before the seed is sown. When sown about the middle of June the crop is ready to cut for soiling by the first of August. The grass which is
sown for hay should be sown rather thick and fully sown ther he of a bushel per arare. It should be cut
at ther
pefore the seed is much developed. Many recompefore the seed is much developed. Many recommend it should be cut when the beet is in eriod
milk, but in fact it should be cut before this period iu the life of the plant, and we would prefer it cut about the time the heads are ready for flowering.
For soiling, or for cutting for live stock in the fall it may be allowed to stand a little longer without any injury. When fed in the fall green it should
be mixed with good straw, and it will be found be mixed with good straw, and it will be found mach
alone.]
SIR,-Can you give me the remedy for stock
J. D., Evelyn, Ont. [Professor Law says: The hollow probany passed of the gas. In urgent cases the parmah must be punctured with the first instrument that comes to skin kept in opposition uutil the gas flows out. trocar, at least six inches long, which may be plunged into the left side in a downward and incannula may be tied in and left for hours or days. In the absence of these a pocket knife may be large seton can be obtained and held in its
place place. In milder cases, without any surgical
resort, the following recipe muxst be given: Aroresort, the rollowing recipe must
matic spirit of ammonia, 3 oz.; crystalline sesqui-
carbonate of ammonia, 1 oz.; oil of turpentine, 2 carbonate of ammonia, 1 ozz; oil of turpentine,
oz, in oil, eggs or milk, well mixed; whiskey
on oz, in oil, eggs ont; ether, pepper, ginger, oi
brandy or gin, 1 pint
of pall of peppermint, \& \&., in full doses; wood tar,, oz.
carborica caid, or creosote, 2 drss. in a pint of water sulphite hyposulphite, 1 oz.; chloride of lime.
Antacids (potassini bonates, soaps and lime water). Check the fer mentation by neutralizing the acidity. A dose on
physic is generally neeessary to clear off the offen physic iod, and should be accompanied by sulphate
sive of soda and ginger.]
Sir,--What is the best tind of grass to sow to nake a lawn, and what time of year is best for
A. S. G., Wyoming. [The best kind of grasses to constitute a goo vernal; "Rhode Island Bent," crested dogstail with a slight mixture of white Dutch Clover, an Grass," and you will get the proper seed required to make a good lawn. The seed may be sown in spring or ofal, but if sown in hrot weather a sitg ang the grass, which vegetate quickly, will serve to protect the springing grass. For forming new lawns 20 to 30 lbs. of seed ar
required per acre, and should be regularly and required per acre,
evenly distributed.]
$\qquad$
Sir, - What remedy would you recommend for palate are swollen so that he has great difficulty
in eating his hay.
J. A., Napanee, Ont. [Fulness of the gum and palate often trouble young horses during the spring months; and some
senselessly aggravate the evil by searing the ten der surfaces, congested and turgid from the cutting
of the teeth. This lampas, as it is termed, dis of the teeth. This lampas, as it is termed, dis-
appears as the teeth come in, but if meanwhile the appears as the teeth come in, but if meanwhile the
colt is unable properly to chew his food, it should
be given bruised or softened, and, where needful, the swollen gums may be incised with a shar
knife. The tocthing cough sometim ing these cases seldom requires any treatmen ing these cases seldom requires any treatment
beyond a good nutritive diet, and a daily allow-
bance of two pounds of linseed cake.]

Horse-Shoeing Competition. SIR,-An interesting feature of the Annual cultural Society, recently held at Exeter, Eng. land, was a horse-shoeing competition, and from it might be profitably introduced into Canada. A Mr. Mills, of Exeter, has a theory as to the com,
position, or rather physiognomy, of the horse's foot, which was once reeeived and believed in by the majority of veterinary surgeons and farmers,
viz., that the hoof expands when coming into con viz., that the hoof expands when ooming into con
tact with the ground, and contracts when lifted. The B. and W. of E. Society also encouraged the
theory, and ailowed Mr. Mills to offer prizes for theory, and allowed Mr. Mills to offer prizes fo
horse-shoeing up to last year. Now, however, the theory has exploded, and is discarded by the So
ciety. They felt, too, that they could not well ciety. They felt, too, that they could not wel
discontinue this competition, which has beoom discontinue poplar feature of the Show; so this yea they give the prizes, which are--1st, three guineas,
2nd, two do.; 3rd, one do. The competition was 2nd, two do.; 3rd, one do. The competition was
watched throughout by at least 500 people. There watched throughout by at least 500 people. There
were 33 competitors, from all parts of England.
Each smith was provided with forge Each smith was provided with forge and anvil,
and was allowed an assistant. and was allowed an assistant. Whatever polish
he put on the shoe had to be done with the ordinary rasp. The prizes were awarded for excellence
of fit, general workmanship and time of fit, general workmanship and time. Many can
remember at these matches some excellent work done in 18 or 20 minutes; this year, among many
good specimens of work, the time occupied has good specimens of work, the time occupied has
been as much as 45 minutes. The tirst prize was been as much as 45 minates. The irrst prize was
taken by Philip Rundle, of Colebrook; the eseond
by W. R. Ridgement, of Enmore, and the third by W. R. Ridgement, of Enmore; and the thir
by Henry Buteher, of Exeter.
Devonian, Exeter, Devonshire, Eng.

## Sheep Raising.

SIR,-As a subscriber to your valuable paper, I
should feel obliged if you would give me a little should feel obliged if you would give me a little
information reppecting sheep raising, as I am
this thinking of going into that business rather exten sively, with a view of exporting to England.
have 200 acres of land, about 80 of which is a present seeded down-about 20 of it this spring. am anxious to know how many sheep I oan keep
and when I say keep I mean keep well-on thi -and when I say keep I mean keep well-on thi and part Southdown, including two thoroughbre
Southdown rams, and intend in a Southdown rams, and intend in a short time pur
chasing a number more-ewes, of course. Would chasing a number more-ewes, of course.
you kindly inform me the best kind to get ? $\mathrm{M}_{\mathrm{l}}$
own ides was to get Leicesters and cross with the own idea was to get Leicesters and cross with the
Southdowns. Please tell me what you think about it. If you advise buying Leicesters, when would be the best time to get them, now, after they ar Also, where ta fall, about September or October Also, where can I get them, and what price can
get them for? And finally, do you think they will
pay if properly managed? pay if properly managed ' Pardon the trouble am putting you to, but some day I may have a
opportunity of reciprocating. I enclose my card hancr, Hamilton. Ont. [The Southdown sheep is highly valued as pro-
ducing mutton of superior flavor. chasers sometimes object to Canadian mutton as being to fat. This objection does not hold good gainst the Downs, and is only applicable to th Lincolns. The Southdown is to be preferred to any of the long-wooled animals for a mixed flock, and his progeny from Leicester dams or others is an
excellent oross, possessing the superior mutto qualities of the Southdown, with increased siz from the Leicester dam. The feeding of such
crosses for the English market is pfofitable. The number of sheep to one hundred acres varies much with the nature of the soil, its fertility and the variety of grasses, Some English grass farms
carry tea sheep to the acre, while many pastures
feed but three shee with their limbs till the feed but three sheep with their lambs, till the lambs are sold off fat. For the winter hay and crop of Swedes will feed ten to fourteen head per acre for five months. From these data an estimate
of the number for a two-hundred-acre farm can be of the number for
readily made.] An esteemed correspondent writing under date that quite a number of peach trees have died in hink that high cultivation is the cause, other sudden frost when the ground was saturated wit water. Mr. Adolphus Pettit, of Grimsby, has
lost between 200 and 400 trees.

Fayette Co. Fine Stock Association. SIr, -will you kindly publish the following ac-
count of the Fayette Co. Fine Stock Association, count of the Fayette Co. Fine Stock Association,
in which many Canadians feel much interested : Mr. John Irvine, accompanied by Mr. W. W. the train, ready to convey the company to their extensive stock farms, $2 \pm$ miles from Oelwein Conveyances being furnished, the party-about
$200-$ set out in regular order for the residence of 200-set out in regular order for the residence o
Mr. John Irvine, forming a grand procession. The whole party were very cordially received and en-
tertained by Mr. and Mrs. Irvine. After a few moment's rest the party (ladies and gentlemen)
strolled down into the field to look at that beantiful herd of Shorthorns owned by Messrs. Irvine and Kitchen, the finest herd of Shorthorns in
Northern Iowa. The cattle were in fine condition and very quiet, so that all who wished could ap. proach and handle them. The Irvine and Kitchen
herd numbers about 100 head, and Mr. K. informs us that while at the Centennial he refused to take $\$ 6,000$ for two of the Centennial prize cows now
running with the herd. Messrs. Irvine and Kitchen have been to quite an expense to plant this herd have been to quite an expense to plant in Fan assure horns in the State than can be found in this herd. horns in the state
The young bullen King, two years old past,
is as fine an animal as we ever saw; his weight is is as fine an animal as we ever saw; his weight
1,700 lbs. His dam is imported Golden Drop, hi
sire is Proud Duke by 10 th Duke of Thorndale. After the party had examined the herd, all wer Anvted to a grand dinner, set on a a table in the grove. The table was supplied with everythin
needful to make the company satisfied and happy, ned all present seemed to act as though they wer on the very pinnacle of social enjoyment, and we
venture to say that a better or more enjoyable venture to say that a better or more e
occasion never was had in Fayette county.
Mr. Irvine has -a splendid farm of 300 acres
under cultivation, with good buildings and conunder cultivation, with good
siderable fruit and good water.
During our visit we had the pleasure of looking
over the large and extensive farm, owned by W , W. Kitchen, of Grimsby, Canada. It contains 50 acres of land, all improved and well fenced. A
fine stream of spring water runs through the farm fine stream of spring water runs through the farm
out of which fish have been caught this seaso out of which fish have been caught this seaso
that weighed five pounds. He has good far buildings. There is uver 300 acres of grain stand
ing on the farm, all of which bids fair to be bouning on the farm,
The celebrated Kitchen herd, and also th
Kitchen farm is now under the contract of $\mathrm{M}_{\mathrm{r}}$ Kitchen farm is now under the contract of Mr
John Irvine, and it is well worth a person's time to go and see the best herd of Shorthorns in the north part of Iowa.
It now being nearly train time the party left for
Oelwein.-[Iowa State Express. Express.
SIR, - Since the advancement of the vernal season induced, the treasures of hora to teave their winter
retreat, and show themselves in all their vanity o forms and colors, we haveexperienced very variabte
weather. Since the 22nd of May the thermomete weather. Since tre between $89{ }^{\circ}$ and $44 \circ$. The frost of the e23rd of May did little damage at $O w e n$
Sound and along the bay shore, but back in Sound, and along the bay shore, but back in
Keppel the plum and cherry blossoms were affectKd, and the young clover touched. The thunde showers and warm weather we have had since, hav
had a very beneficial effect. Fall wheat is looking had a very beneficial effect. crops. The potatoes
well, and so are the spring crops
are growing fast, and the lovely potato beetles are seemingly more numerous han eady. Sto furnish out are plentifu sand andry festivals. Pathmasters have commenced the performance of the farce known as
statute labor. It appear to be a difficult matter statute labor. It appear to be a difticult matter
to get any legislative measures passed for the farmto get any legislative meastres passed prt me asure.
er's benefit, unless it can be made a party meated for 50
If the statute labor had to be commuted If the statate labor had to be commuted for
cents per day, and the work performed by contract, more and better work
money, and as to preventing cattle going atlarge, every, municipality has power to pass a by-law to
that effect, but so long as the councillors themthat effect, ba great offenders as any, no such by-
selves are as gill
law will ever be passed. The best plan would be to pass a law to pass a by-law to prevent cattle running at large within the county, whenever a certain number of the ratepayers shall petition them to
that effect. We must keep these grievances in that effect.
storefor the next session of our Provincial Legis-
lature.
'Saralwak.

Sir,--Suppose that I own twenty-five acres of
good arable land, all of it fit for cultivation, within one mile of a town of 3,000 inhabitants. Suppose further that the whole of it is thoroughly
cultivated, and that a specialty is made of the most profitable crops. Assuming also that it is most pronaged, and that there is a ready sale for
all the products at prices that would be considered all the products at prices that would be considered
average in any town in Ontario. Taking these
thing things for granted, can you give me an outline of
(i) what crops would be most profitable; (2) the acreage of each; and (3) the gross value of the roduct of one season's work.
All the circumstances are supposed favorable,
and it is upon this basis I want to have your cal culation? Leave untoward events out of th question, and select such crops as will give the highest financial results. Give the gross value of the product; and, if it is not too much trouble, an year, leaving out of the question the interest on the price of the land, which will vary considerably different localities. Answer through the ADV
CATE in first issue convenient, and oblige,
[We take it for granted that " (Gardener" refe in the above to farm derived from crops in a four-year rotation from a twenty-five-acre farm. Say six acres potatoes, 250 bushels per acre, 50 c per bushel, $\$ 70$; six acre
barley, 50 bushels per acre, $\$ 150$; six acres soiling crops to feed six cows, with average product of cheese from factory 540 lbs , at 5 c per lb ., $\$ 43.20$ per acre, $\$ 20$ bushel, $\$ 150$. All the circumstances
acre, $\$ 1$ per bus are supposed favorable, and the produce, as esti-
mated, $\$ 1,309$ gross. The expenses you can easily mated, $\$ 1,309$ gross. The expenses you $]$
A Subscriber, Frontenac, asks: "What is the proportion of dressed the proportion varies accord ing to circumstances, as the length of time the
animal has been fattening, the food on which it animal has been fattening, the food on which the
has been fed, the breed, and also the age of the has been fed, the breed, and also the age or in
animal. At the Christmas fat cattle show in smithtitld, E., was a steer of the Young Mary
tribe, which, $\mathrm{i}, 902$ days old, had a live weight of Jacob Thuler. The live weight was $2,400 \mathrm{lbs}$; ; offal, 295 lbs ; tallow, $300 \mathrm{lbs} . ;$ hide, 305 lbs .;
carcase (four quarters)
net beef, 1,700 lbs. The carcase (four quarters) net beet, 1 , to the 100 lbs. This is a very large proportion, the steer being
high bred, and no expense having been spared in high bred, and no expense having been spared in
his feeding. The general rule for the difference his feeding. The general rule for the diver is as
in weight between live and dressed beeves
fourteen to eight. From this has risen the differ fourteen to eight. From this has risen the difference in the stone weight-the stone weight of meat eight pounds.

Sir,-Would you please allow me space in your valuable paper to ask a few questions, which you answer:-1st, Is is possible to foree the grewth of
ansuah by feeding them with milk, and 2nd, how squash by feeding them with mose, you will greatly
is it done. By answering those is it done. By answering those,
oblige, Enquirek, Hemmingford.
[The size, and consequently the weight of the
squash, have been greatly increased by feeding squash, have been greatly increased by feeding
hem with milk. Would any of our readers reply
and to Enquirer.]

Sir, -I have a colt, one year old, with a bog
pavin. Give treatment in next Advocate, and spavin. blige. D. T. bog spavin :-Rest, and use a high heeled shoe. In case of v.ry violent inflammation use soothing measures (fomentationav and
heat and tenderness have subsided, use blisters, as for bone spavin, or, still better, the hot iron ap plied lightly, at a nearly white heat. We hav
known cases of bog spavin in young horses com-
pletely cured by treatment similar to the above.] In the opinion of "A APractical Farmer" corn cut and cured when in its most nutritions condition, if made from sweet corn, is, if well cured but
little inferior to average English hay. Cattle appear to eat
thrive upon it.

Several communications are laid over until nex
issue.

## The Grangers' Picnic.

## gala time at port stanl brethren.

This body have held their annual picnic at the Port. The G. W. R. made liberal reductions from nd a large number of the farmers ines of road, elves of the cheap rates to have an outing the Order from various parts being well represented.
About 300 left the ions were made at Wilton Grove, Glanworth and St. Thomas. The prominent members of the
Order met at the Fraser House, and nominated speakers for the occasion. Mr. Wm. Belton, London Division Grange, occupied the chair, and
in a few remarks urged the necessity of combinan a few remarks urged All other professions had their meetings, and he thought it nothing but fight terms.
Bro. J. Robinson, of Elgin Division Grange, con-
idered farmers had not their interest at heart sidered farmers had not their interest at heart.
They bound themselves to a party, and outside of They bound themselves to a party, and outside
that they would not act. He considered there was not unity enough amongst farmers to make perfect organization. He thought the people of
Ontario were too much governed by a surplus of Ontario were too much governed by a surplus o
legislators and County Councillors. He felt tha he could pick out five farmers present who could run the Government of ontrintration.
than the present Administran
Mr. James Armstrong, of Yarmouth, spoke at length on the benefits of the Order as a social in stitution for farmers and their familes. He con
demned the purchase of groceries, \&., and showed it was a weakness instead of strength to
the Order. The great principle they had to fol the Order. The great
low was unity of action.
Mr. H. Anderson said it did not follow because a farmer belonged to a Grange, or that a given In fact, he thought if anything it had been the
means of separating them by internal dissension. means of separating them
Farmers should be prepared to sink personal inter ests, and yield to a majority in their Granges, an work Mr. D. C. McDonald spoke of the Order as a step
in the right direction on the part of the farmers in joining them together for one common pur pose - thi with previous speakers - a house divided against itself must fall. He thought by unity o action a great good could be accomplished by
educating farmers to hold the highest positions in educating far
the country.
Mr. W. L. Brown referred at length to the prin ciples of the Order. He did not think much of the
commercial principles of the Order. commercial principles of the Order. He thought
that more should be done to develop a better clas of farmers, and have a better representation in Parliament. He also spoke at length on the fin
ancial condition of the country

Mayor Smith had no doubt the Order had don Mayor Smith had no doubt the Order had don
good in weeding out a large number of middle good, but still they were necessary as a part of society.
Mr. Fred. Anderson, in a lengthy speech, re Mr. Fred. Anderson, in a lengthy speech, re-
ferred to an article of the Rev. W. F. Clarke on
farmers' representation, and was followed by Ben ferreders' representation, and was followed by Ben
farmere, who, in a well timed speech, exposed the Panye, who, in a well timed speech, ex
fallacies of the opposition to the Grange. It was proposed to hold a grand picnic of all the
divisions West of Toronto in some central place.

No fewer than seven hundred suggestions for getting rid of the Grape Phylloxera-mostly of no
account, of course-were made by correspondents to the learned Commission of the Department of the Herault, France, 317 of which were faithfully trie
and the results of the toilsome test, together with conclusions drawn from what was previousl known, seem to teach that the destruction of the "little but a wful" insect is an impossibility, an
and that the only resource is to so stimulate the vine that it may fruit in spite of its powerful enemy. For this purpose manures rich in potash and nitrogenous matters, especially when they contanin any
substance which will aut $: \mathrm{s}$ an iasecticide, such, for instance, as mixtures having sulphates and earthly and alkaline sulphurets, wood-ashes, soot, and by their continued use one cultivator, as mentioned in the Gardners' Chronicle, keeps five hecsame neighborhood are already dead, or going fast in that direction.


The Ammily Citrcte. Home, sweet Home."
my first and last love

 appy. Were to be asteln hhi ram ins






 thulition on feeing howeve, and with nilid curiosity the tive





 W, expect you.- Tours erer, "Charie Spencer,




Mr. Spencer was a wealthy soli itor, and Charlie was sup
posed to be in the business
but I fancy nore pray than work Wass his motto, and, as he had grond expectations and was al
whly son, his fathergave him as much liberty as he desiredmily son, meant an areat deal
tharie met me with the ponivirariage at Crantourne



 | ioned house |
| :---: |
| grounds. |


 hospired me mer



 might carry her.
1 was guite re










"Not at all," returned Charlie, promptly, " I am only
amused at ant
lour


There we foumd hissister Dorothy Ihad often been amused
by the enthusiastic samner in which Charlie had talked of his

 venty-01e.
She adranc She adranced to meet me with a frank smile that lighted up
her rathen rensive efaec and made me trace a likeness bet ween
hie brother and sister. The aunts and Mr. Spencer now made their appearance-
dinner was announced and found myself seated next to


 In vain did Dorothr, with angelic looks of sympathy, try to
tay the strean by asking ne about my home-ife anid other
 thes riess wink with a revengeful ylare.
Mr. Spenker


nust come.
What a stroll that was : What a heavenly niyht! What a

 of her vi
to me
Then c
 The next fortnight passed with incredible rapity. Charie
Dorothy, and I rmmbled and sketched and drove to our hearts Sorothy, and $I$ rambele and skeche hand canghe a severe cold,
ontent. Fortunately aunt Sarah had cand

 and we were as happpas hie day her manner tow ards stran
was rather grave and dignifed in
vers was rater unbent to
gera, thene
Bhe treated Charlie.
This was all wery well, and 1 was grateful to her for adopt-
ing me as a riend at once; but yet t began to be disatisfied with her unaffected gisterly $y$ attentions, and wished she were
not quite so calm, and should like to have seen her blush
 werherto perfect appetite had heomen eo ancertan, any wh
hithero
my spirits were so variable? To all these nuestions I found my spirits were
but hais answer-
alt
This meant serious business with me. I was by no maan
 was no passing, as Dorothy and I were reading in c'ose prox
One morning
 "Georre Stanforl's ship has arrived and he will be her


Good feltew as Charlie was, he wassometimesto lo loquacious

it need be nothing to Dormthy whether he came the ne | $\substack{\text { ay or the day after } \\ \text { Impatient top } \\ \text { rexu }}$ |
| :---: | :---: |


 hasten towarits the house, A
at my heart: Ah, what indeed
 Tord that ton "wind
the news if his arrival
"nelese wiy
"Bless my sonl," exclaimed Charlie, "didnt' rou know that


Perhaps he had, but nuw the aching at my heart became sh
acute that even dear bluh: ,Whrie saw my pain, and, , ike the
 "Tes, sail. There he has wained experience, and, thang sued mone

 After this lonk spech Charlie threw himself at thin leng
upon the


What a warm greeting passed between them! What a clooe
rrasp of hands -what eager questioning - what hurried move. ments towardis the house ! Who could it be but fieorge Stap
orat And
oart And I sat forgotten and alone o one thought in my
eart heart one idea shiring in nuy brain - Dorothy engased
Dorothy yoing to be married !"?



 agged intel
he world.
 They all seemed to vic with each other as to who should

 rosy yush on
her nhouth.
Whether D

 inith ful I became the more distressed she looked. Well,
here was an end to my dream! Hencoforth it was George
Stanfus
 $\underset{\substack{\text { den, whit } \\ \text { night. } \\ \text { On the }}}{ }$


 Melorable- that Mr. Spencer was anonentity- that the aunt
were most objectionate and that the ooner 1 left the better
But now how was 1 to get away?
What excuse




 The dressing.bell warned me that I I must rouse myself, and
with a sigh, began my toilet. How many necketies spoilt



 A girl hatant nineteen sal on a low chair by the window



 Hack mater
and arns.
a
" Dot, yon
hot, yon're choking me:"' cried Charlie
 Hero an involuntary movement on my part made the pert
litte creature turn her curly head in my direction, and an

 - Let me introduce you to M
 Dot, this is my particinar riend, James Lester."
1 a lianced andl made what was 1 am sure a most awk ward 1 a ad’al
Tow.
The it
doliterat
 ind ower sile sank, un her grauzy draperies almost hid he
Her lips were parted with a mallicious mile, hall




 "A

"Anil admire her tho, don't you Dot"" interruptenl Charlie

Little Daisy's mother was trying to explain the meaning of a smile. "Oh, yes, I kn
child; "it is the whisper of a langh.

## A Farmhouse Dirge.

by Alyrbd austin
The following verses-true to nature and to country life-are taken, a few here and there, from
the very touching domestic sketch in the Contemporary Review for January :-
" Will you walk with me to the brow of the hill,
to visit the farmer's wife, to visit the farmer's wife,
Whose danghter lies in the churchyard now,
eased of the ache of life? eased of the ache of life ?
Half a mile by the winding lane, another half to the top;
There, you may lean o'er the gate and rest; she
will want me awhile to stop will want me awhile to stop--
Stop and talk of her girl that is gone, and no more will wake or weep,
Or to listen rather, for sorrow
r to listen rather, for sorrow loves to babble its
pain to sleep. Pin
" Will you lean o'er the gate, while f go on? You can watch the farmyard life,
that gladden his thrifty wife;
Or, turning, gaze on the hazy weald-you will
Till your thoughts, like it, grow blurred a vague, and mingle the far and near.
grief we say;
And perhaps her woe, should she
will run more quickly away.
' I thought you would come this morning, ma'am. Yes; Edith at last has gone;
To-morrow's a week, ay, just as the sun right To-morrow's a week, ay, just as the sun
into her window shone; Went with the night, the vi
eth never the day;
But she left a darkness behind her here I wish
She is no longer with us, but we seem to be
always with her,
In the lonely bed where we laid her last, and can't get her to speak or stir.

- Yes, I'm at work; 'tis time I was. I should

But this is the room where she lay so still, ere
I thenght I carried her past the door.
ind let her go where it
seems so lonely of nights;
But now I am serubbing and dust ing down, and
setting the place to rights.
All I have kept are the flowers there, the last
that stood by her bed;
I suppose I must throw them away.
much fairer when she was dead.
" She never wished to be smart and rich, as so
many in these days do,
Nor cared to go in on market days to stare a
the gay and new;
She liked to remain at home and pluck the white
violets down in the wood.
She said to her sisters before she died, ' 'Tis so
She said to her sisters before she died, 'Tis so
easy to be good.'
she must have found it so, I think, and that
was the reason why to leave her here, so
fool deemed it needless to
deemed it needless to leav.
they took her up to the sky.
" The young ones don't seem to take to work as
their mothers and fathers did;
We never were asked if we liked or no, but hat
There's Bessie won't swill the dairy now, no
Richard call home the cows,
And all of them cry, 'How can you, mother
when I carry the wash to the sows.
when 1 carry the wash to the sows.
Wilth would drudge, for always Death the
hearth of the helprullest robs;
But sle was pretty--I could not bear to set he
on dirty iohs !
Some day they'll have a home of their own,
But polish the porch as you will you can't keep
doctors and coffins out.
doctors and coffins out.
've done very well with my fowls this year, but
what are pullets and eggs
what are pullets and eggs door of the grave
When the heart in vain at the degs?
the return of the lost tone beg?
the return of the lost one begs?
The rich have leisure to wail and weep, the poo
The rich have time to be sad;
If the cream hadn't been so contrairy this week
I think grief would have driven me mad.
" Must you be going? It seems so short. But
thank you for thinking to come; It does me good to think of it all, and grief
seems doubled when dumb. An' the butter's not quite so good this week, it you please, ma'am, you must not mind,
And I'll not forget to send the ducks and all the
eggs we can find;
I've scarcely had time to look round me yet, work gets into such arrears,
With only one pair of hands, and those fast wiping away one's tears.
Come, let us go. Yes, down the hill, and home
by the winding lane,
The low-lying fields are suffused with haze, as
life is suffused with pain.
The noon mists gain on the $m$
spondency gains on youth
We grope, and wrangle and; s , so de
is the only cortain truth.
0 love of life! what a foolish love! we should
weary of life did it last;
While it lingers it is but
hile it lingers it is but a. little thing: 'tis
nothing at all when past."
Origins of Various Articles.
There are many articles in common use, the
origins of which are seldom thought of. For a long time, handmills were, in Europe, the only
machines used to grind corn. The art of conmacuines used to gring windmill originated, together with other inventions, with the Saracens. During several centuries, they used, in France, instead of platere
circular slices of the crust of bread, which were after dinner distributed among the poor. As early
as the time of Pliny, the Gauls made use of yeast as the time of Pliny
to raise their bread
The Egyptians not only set a great value on
brocoli, but even regarded this vegetable as a object of adoration. It was the Romans who in
troduced troduced them into Europe. We have the peach
from Persia, in which country it was actually held to be a poison. In our climate it has lost, by trangplantation, all its original coarseness, and is
become one of our choicest fruits. The plum was become one of our choicest fruits. The plum wa
brought from Syria at the time of the Crusades. Rabbits were formerly held in such high estima taion that they were brought to table as a very
choice dish. They once increased to such an ex choice dish. They once increased to such an ex
tent in Spain that they were suspected of mining
the ramparts and the houses of Taragon, so as t the ramparts and the houses of Taragon, so as to
cause some parts of them to fall. Oysters wer casse some parts of them to fall. Oysters wer
looked upon by the Romans as a dainty dish, and the poet Antonius has celebrated them in his
verses. After the death of this poet, however verses. After the death of this poet, however,
oysters were no more thought of; and it was not oysters were no more thought of; and it was no
till the beginning of the sixteenth century that
they were again brought they were again brought into notice.
Sweetmeats were formerly much used to bribe persons of quality, or judges, to whom a request
was to be made. This custom at last rose to such a pitch, that Louis IX. of France issued a procla-
mation, wherein he forbade all judges to take mation, wherein he forbade all judges to take
more than ten-pennyworth a week. Philip the more than ten-pennyworth a
Handsome subsequently curtailed this quantity
to no more than what a person could use in one day. In the twelfth and thirteenth centuries good manners required that persons of different
sexes, when invited to parties, should sit down in couples, and that each couple should have one plate between them. In families, one goblet was
deemed sufficient for all ; and St. Bertrand was deemed sufficient for all; and st. Bertrand was
disinherited by his father, who was affected with the leprosy, for having wiped the edge of the goblet before he drank.
Beds, now such indispensable pieces of furni-
ture, were to the Greeks and Romans articles of great luxury. When they exchanged the leaves and skins of beasts, on which their heroic ancesbedsteads were made sometimes of ivory, sometimes of ebony, sometimes of cedar, and sometimes
of silver. It would be difficalt, now-a-days, in the of silver. It would be difficult, now-a.days, in the
middle ranks of life, to find beds such as our ancestors slept on, not only with their wives and their children, but their dogs and their friends; an strongest proof of affection and confidence that strongest proof
could be given.
A Cockneytourist met a
Sootch lassiegoing bare
Sowards Glasgow, "Lassie," said he, "I foot towards Glasgow, all the people in these parts
should like to know if all go barefout?"- "Part of them do, and the rest of em mind their own business," was the rather set
tling reply. tling reply.

## The Story of Two Visitors.

 It was once Causeur's good fortune to spend afew days in the modest home of an esteemed friend of days in the modest home of an esteemed friend of slender means, a home that was all that its
owner could affor to make it, yet lacked many
onize things that would have made it yore comfortable and convenient. During Causeur's stay two guests
were entertained to tea, both of them men of means and wide acquaintance, accustomed to all the luxury that wealth can give. But they were widely differ. ent in their behavior.
They first dwelt upon the fact that the house there were few or no neighbors; at table he told of
the delicate tea he drank at the hose the delicate tea he drank at the house of a friend,
of the rich tea service he had seen upon the table of another, of the rare old china that was used in his own household, and of the dainty meals he had
eaten trom it. In the cramped little sitting room eaten trom it. In the cramped little sitting room
after tea, he sat by the stove and talked of the delights of an open wood fire, of his enjoyment of rare and costly books and pictures, and of twenty had partaken, did not and could not possess.
When he had gone it was clear, although nothing
was said, that his visit had caused pain, that it was said, that his visit had caused pain, that it
made the wife feel her straitened circumstances more keenly than ever,
her husband's thoughts.
The next evening came the other visitor. He brought good cheer in his very face. The room, walk, which he added was just the thing to give a man a good appetite for his supper. At the gratulated his host on having such a snug little home, apologized for eating so much, but couldn't elp it because it was "so good and tasted "so was just like the one his mother had when he was a boy, and told his hostess, who was all smiles and as happy as a queen, that she ought to thank her lowers that made her room look so cheerful. After tea he insisted that the children should not be sent to bed "just yet;" said he wanted to tell them a
story, as he did; and when he had done and had kissed them good night, they trudged off up stairs with beaming faces, under the guidance of a mother who felt that a ray of real sunshine had entered her
home, making it better and happier for all time.

## Children.-Trouble and Work.

To spare trouble now in any remarkable degree to the children that we love is scarccly anything
more than to insure them a double quantity of $i t$ by and by. Now, in them a doastic hoalthand apinits
trouble rolls off them like rain-drops of a leaf ; but having seen it, they are not to be taken by surpris by it hereafter, and are not stunned and mad helpless by the shock when they find it standing
in their path. There are noble qualities which in their path. There are noble qualities deter
only that rude touch brings out-courage, det mination, forbearance, compassion for others, affection that would leave their characters so onesided and imperfect as the absence of these and
simiar traits would make it. "Poor child "" similar traits would make it. "Poor child!" say the unwise guardian: "he is going to his kingdom
soon enough ; he little knows the coil there is before him ; let him enjoy himself while he can don't mean that he shal know there is any troubl
in the world until it is forced upon him." Poor in the world- untiil it is forced upon him. Poo last trouble he will ever know-the utter inability to stand up like a man and meet any trouble. Than
mother that toils in the kitchen herself, rather than monder that her daughter to its hot and hateful duties, feels, doubtless, that she is performing a virtuous
and laudable part : the daughter will have to come and laudable part : the daughter will in good time ; till then let her enjoy her childhood. She does not consider that any enjoyment can be found in the occupation, when,
in truth, with youth and hope, and the intention to abridge her mother's work, the real enjoyment would be as great in stirring about the kitchen as in lolling in a parlor. To do a young girl's sewing
for her may be a far too frequent unkindness on the part of tender aunts and indulgeut elder sisters, and it is as unwise as it is to bar her out of the kitchen.

A gentleman being once asked why he talked to converse with a man of sense.

\author{

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## saiunic eaday's Repartment.

My Dear Nibces,'-The season has again returned to expect the city visitors. During the heated time everybody that can get away from pleasant country residences expect to have a visit from city friends, who in the summer time seem to think their country cousins particularly dear to them.
The rustic homes and manners are very appro priate to their rural surroundings; urban polish of manner and appearance certainly would be out o place with them. Indeed, the rustic simplicity is very enjoyable. But we must study the country when she has no visitors. It matters not whether she makes guests or "home folks" of her visi tors, her cares are increased by each additional individual. When, as in many cases, she does everything with her own hand, or has insufficient help, guests may do much to lighten the labor of the hostess. If they are prompt at meals, especi ally at breakfast, it will be a help. We know a weakness of our city friends is keeping breakfas waiting.
Some housekeepers are unwilling that visitors should assist in housohold tasks; but there are
but few women who are wearied with domestic but few women who are wearied will guests to wait on themselves, to care for their own rooms, and to help about the lighter housework.
How often do we hear the hospitable hostess confess to her friends that she is completely worn out with so much company. One thing due from visitors is to know when to expect them, and how
Because a woman long they wish to remain. Because a woman
chances to occupy as mistress the "old home. stead," this is no reason that she should entertain all the friends and relatives who may have dear associations of the place. Minnie May.

Answers to Correspondents. Take equal proportions of resin and castor oil to
make fly paper. make fly paper.
The moth will destroy stuffed birds if not kept n a glass case
Cactus requires rather a shady place, and wants
but little water.
Clean your soapstone toys with a brush and
ander. soapy water.
To pack eggs, grease carefully, then put in salt. Clara. - You can purchase elder-flower water at the eperumers, or you can make it for yourself in the season by simply pouring hot water over a
quantity of elder flowers in a jug, then straining. quantity of elder liowers in acold apply it the face with a soft piece
of cambric, or sponge. AlicE.- There are exceptions to all rules, and in
all cases. Thus, for instance, a young person of all cases. Thus, for instance, a young person of
slender figure may become too fat and round in slender face. There is no remedy for it.

## RECIPES.

ginger beer.
Two gallons of ginger beer may be made as fol-
(ows:-Put two gallons of cold water into a pot upon the fire; add toit two ounces of good ginger
bruised, and two pounds of brown or white sugar. Let all this come to the boil and continue boiling
for ano an hour. Then skim the liquor, and for about an hour. Then skim the liquor, and
pour it into a jar or tab along with one sliced
and lemon and half an ounce of cream of tartar. When
nearly cold put in a ceacuptul of yeast to cause the liquor to work. The beer is now made, and
after it has worked for two days strain it and after it for use. Tie the corks down firmly.
bottle it following is for making a very sup
The The following is for making a very superior
ginger beer. The honey gives it a peculiar soft.
ness, and from not teing fermented with yeast it
is less violent in its action when is less violont in its action when opened, but re-
quires to be kept a longer time than usual before quires to be kept a longer time than usual before
use. White sugar, five pounds; lemon-juice, one-
quarter of a pint; honey, one-quarter of a pound;
ginger, bruised, five ounces; water, four gallons ginger, bruised, five ounces; water, four gallons
and a-half. Boil the ginger in three quarts of the water, for half an hour; add the sugar, lemonjuice, and honey, with the remainder of the water, ter of the white of an egg, and a small teaspoonful
of essence of lemon. Let the whole stand four or essence of lemon. Lette; this will keep many months.
red currant wine.
To make six gallons of red currant wine, put
twenty pounds of currants and four quarts of
wenty pounds of currants and four quarts of
raspberries into a clean tub. Mash them well, raspberries into a clean tub. Mash water; next
and add to them fifteen quarts of cold wa day strain the liquor, and return it into the tub,
with twenty potads of loaf sugar. Let it stand with twenty potands of loai sugar. Let it stand
two or three days to wurk; then take oft the sanm,
and put the liquor into the barrel. Put the bung and put the liquor into the barrel. Put the bung
lightly in, and in a week add a quart of the best pale French brandy, and stop it up.

STRAWBERRY SHERBET.
The berries must be not only ripe but fresh. Crush them to a smooth paste, and ade orries three pints of water, the juice of ne lemon and one teaspoonful orange--10w strain it over the sugar, allowing three-quarters of a pound to each quart of berries. Stir until the sugar is
dissolved s strain again and set in ice for two dissolved; strain again and
hours or more before using it.
lotion to promote the growth of the hair. Eau de Cologne, two ounces; tincture of can.
Ean lavender, of each, ten drops.
black spots on the fage.
Little black specks are occasionally observed
upon the nose and forehead of some individuals. These speckss, when they exist in any number are
a cause of much unsightliness. They are minute corks, if we may so use the term, of coagulated lymph, which close the orifices of some of the
pores or exhalent vessels of the skin. On the pores or exhalent vessels of them being pressed
skin immediately adjacent to them baile
with the fingernails, these bits of coagulated with the fingernails, these bits of coaguatad
lymph will come from it in a vermicular form. lymph will come from it in a vermicus," many
They are vulgarly called "Hesh-worms persons fancying them to be living creatures. These
may be got rid of, and prevented from returning may be got rid of, and prevented from returning,
by washing with tepid water, by proper friction by washing with tepid water, by prope of a little
with a towel, and by the application
cold cream. The longer these little piles are percold cream. The longer these tittle piles are per-
mitted to remain in the skin, the more firmly they become fixed; and after a time, when they los
their moisture, they spines, as dense as bristles, and having much o
that character. They are known by the name o that character.
spotted acne.
to remove the odor of perspiration.
The unpleasant odor produced by perspiration
frequently the source of vexation to persons who are subject to it. Nothing is simpler than to re move this odor much more effectually than by the
application of such costly unguents and perfumes as are in use. It is only necessary to procure some compound spirits of ammonia, and place abou wo tablespoonfuls in a basin of water. Wash as clean and sweet as one could wish. The was is perfectly harmless, and very cheap. It is re-
commended on the authority of an experienced commended
physician.
emonade.
For lemonade, allow three lemons to a quart of
water and six tablespoonfuls of sugar. Squeeze water and six tablespogar, add a very little water, the lemons upon the sugar, ado avery adding the
and let it stand fifteen minutes before a remainder of the water; ice well. Where
desired, one lemon out of the three may be sliced desired, one lemon out of the ehree may me in the
instead of squaezzed. Orangeade is made in
same manner, substituting oranges for lemons. same manner, substituting orang
walNut catsur.
Giather the walnuts when a needle will readily pierce them. Bruise thoroughly 120; put with
them three-quarters of a pound of fine salt and a quart of vinegar; stir them every day for a fort-
night; then strain; squeeze the liquor from them throngh a cloth; add to this one ounce of whole meg bruised, half an ounce of ginger, and a few meg bruised, half an ounce of ginger, and an hour;
bladesof mace. Boil the whole for half an
strain and bottle for use.

Layering Carnations.
London Garden gives an account of the succosssful propagation of carnations by M. Gouthier, as
contained in the French floricultural journal,
 ead about the portion to be rooted. The lead is
to encompass the shoot both above and below a joint, we suppose, although it is not so sotated.
The lead used for these cups is of the thickness of The lead used for these cups is of the thickness of
strong paper, and cut into triangular bands. trong paper, and cut into triangular banape
These are formed around the finger to a shap
somewhat like a small sugar paper. The soil em. ployed is fine, and the same as that used for cul-
ure in pots; threads serve to support the cups in core in pots; threads serve to support the cups in
opsition, and a pin thrust through helps to seoure
hem and keep the layer in poition. them and keep the layer in position.
The sections wrapped, of course, retain their
upright position, and must be supported thus by upright position, and must be supported thus by
being tied loosely to stakes. Water must, of course, be given often enough so the soil is kept
constantly moist. The plan will work as well for all soft-wooded or succulent plants, and a nick or slight girdling below where the roots are to be formed will greatly assist.
For summer propagation in the garden, we have
found the old way of layering in the ground and, ound the old way of layering in the ground and
pegging down to be easier, and it will be found
quite as successful. This is done by making guite as successful. This is done by making a
slit between joints, in the shoot, and half way
through through, putting a wedge betwoen to hold the cut
surfaces apart, pegging into the ground, coovering
about about two or threg inches with fround, covering
and keoping moist. Florist earth, and keeping moist. Florists who have facilitios
for striking, use cuttings simply. or striking, use cuttings simply. These are struck
into clean sand and kept moist until rooted, when they are transferred into small pots. By the oup
gystem the plants if kit gystem the plants, if kept moist, may be leht unti
thoroughly rooted, whioh is not the oase when cut tings are
benoh.

## Arrangement of Rooms.

Give your apartments expression-oharacter. Study light and shade, the combination and arrange ment of drapery, furniture and pictures. Allow
nothing to look isolated, but let everything pros. nothing to look isolated, buility. Observe a room
ent have an air of sociabile
immediately after a number of persons have left immendately after a number of persons have lef st little as possible the relative position of ohairs,
ottomans, and sofas. Place two or three chairs in a converasational attitude in some cheery corner, an ottoman within easy distance of a soor, a char.
near your stand of stereoscopic views of engrav.
ings, and one whare a good light will fall on the bok which you may reach from the table. Make than usual observer, and do not leave it possible for one to make the criticism which applies to so
many homes even of wealth and elegance,-"fine many homes even of wealth and elegance, - ine
carpets, aud furniture, a few pictures, and elegant carpets, aud hot how dreary." The chilling atmoshhere is felt at once, and we canuot divest ourselves of the idea that we must maintain a stifir and severe
demeanor to accord with the spirit of the place. Make your homes then so cosy and cheerful that if we visit you, we may be joyous and unrestrained,
and not feel ourselves out of harmony with our and not feel
surroundings.

A Warning.
An intelligent writer calls the attention of all consumers of kerosene oil to the pernicious and unhealthy practice of using lamps nowd with that which should be consumed by the flames is by this means lift heavily in the air, while the cobs theely be
il thus saved at present prices could scoarcily
His one dollar a year for the lamps of a housenold. His
attention was called particularly to this custom while boarding in the country where kerosene was
the only available light. A large family of children only avaiable light. A arge famity in the same house were taken ill one
night, and on going to the nursery the mother found night, and on going to the nursery the mother found
the room nearly suffocating, with a lamp turned down ; whereupon the physican forbade the use of
a lamp at night unless turned at full head. He a lamp at night, unless murned at one of a young
says he could quote many case, one of
girl subject to fits of faintness, which, if not ingirl subject to fits of faintness, which, if not in-
duced, were greatly increased by sleeping in a room
with the lame al with the lamp almost turned out. Besidos the
damage to health, it spoils the paper and curtains,
soile soils the mirrors and windows, and gives the
house an untidy air and an unwholesome odor.

Caladium Esculentum.
Variegated leaved plants are quite the fashion at this time, and are becoming more popular every year ; they produce a fine effect when planted in oval or circular beds; a bed of them well arranged display of flowers.
One of the most beautiful of the ornamental oliaged plants for planting on the lawn, or as a centre for oval or circular beds, are caladiums; they will grow flve feet high with immense leaves of
a light green color, beautifully veined with various
colors. They are bulbous roots and must be taken p with the frst frosts; the buibs should be kep in dry sand in dry temperature. The oldest and (see cut); the leaves are of immense size, often two feet long and six inches broad; it will thrive when other tender varieties fail.

## Simplicity.

The more we see of the world, the more we are satisfiod that simplicity is as inseparably the com-
panion of true genius as it is of true greatness. We ever yet knew a truly great man-a man whe


## An Egyptian Wedding.

 An American ledy residing in Cairo, writefollows, descriptive of an Egjptian wedding : Hessian Bey was to take to his harem one of belles of Heluan. Heluan is a watering-place that the Vice-King wishes shall eclipse the famous
bathing places of Europe. It is a little green island bathing places of Europe. It is a little green island
not far from Cario; it is dotted with gleaming white houses, in the midst of an immense glittering deser
bordered by the Nile.
The women of Egypt look upon the place as a
sort of EEden, where they can purchase all sorts of sort of Eden, where they can purchase all sorts of
bijouterie and Parisian nothings, and spend their
pocket-money as recklessly as their more civilized pocket-money as recklessly as their more civilized
sisters across the waters. But to return to th marriage. Through the courtsey of Hessan Bey, I was a wedding guest. He escorted me to the ing my right hand over my left upon my preast acoording to costom, I entered, and the women
who guarded the door conducted me to the room prepared for me. I finished my toilet quickly and went into the saloon, and soon after my entrance,
the bride, with all her attendants, came from thi path and entered the room. It was a bright-
colored picture. First came the slaves and servan colored picture. First came the slaves and servant
of the house ; in their right hands they held waxcandles, in their left a green basin which contained
henna for ooloring the nails ; the bride followed

## Lending a Pair of Legs.

 Sometimes we ask people to ""lend a hand," and sometimes we hear them say, " lend me your eyes.',Here is a story about a boy who lent a pair of leg. just to accommodate.
Some boys were playing at base ball in a pretty,
shady street. Among their number was a lame shady sireet. Among their number was a lame
little fellow, seemingly about twelve years old litlle fellow, seemingly about twelve years old-
pare, sickly-looking child, supported on two
crutches, and who evidest, pale, slicky-looking child, supported on two
crutches, and who evidently found much difficulty
in walking even with such asistach in walking, even with such assistance. The lame to see how much his infirmity ; for he did not in his sem
own way, and how much it would hinder the progress
of such an active sport as base ball. His compa of such an active sport as base ball. His compan
ions, good naturedly enough, tried to persuade him ons, good naturediy enough, tried to persuade him
to stand on one side and let another take his place
none of the none of them hinted that he would be in the way
but they all objected for fear he would hurt but they all objected for fear he would hurt him
self. "Why, J,
you know."
"O, hush !" said another-The tallest boy in th party- "Never mind, I'll run for him, and you can
count it for him," and he took his place by Jimmy's side prepared to act. "If you were like him," $h$ said, aside to the other boys," "you wouldn't like
to be told of it all the time." How many time the
How many times loving hearts will find a way
to lend their powers and members to the aged, the poor, the sick, and the weak. plicity. True greatness never strut on stilts, or plays the king upon the on stits, or plays the king upon the
stage. Conscions of its elevation,
and knowing in what that elevation consists, it is happy to act its part musements and business of mankind It is not a fraid of being undervalued for its humility.
letting himself down to the level of his fellow-men, in the ordinaryamusement and relaxations of life, whateve
elevation he may have reached, must possess that innate consciousuess of genius which is itself sufficient evi-
dence of its own existence. Those dence of its own existence. Thos
who are afraid of being undervalue or despised for mixing with their
fellow.creatures are of the ordin fellow-creatures are of the ordinary,
every-day race of men, whom chance every-day race of men, whom chance
has made great, and who, like the inmates of unfinished palaces, shut
their windows lest people may come their windows lest peopple may come
nigh enough to detect the abject nigh enough to
poverty within.
Facts Abour Foob.-'There is al old saying that what is one's mea
may be another's poison, and how
often we are rem often we are reminded of this as we sec the ened at the waist by a girdle set with diamonds likes and dislikes of people for the same articles
of food, and learn the reasons therefor. Straw berries, that are so delicious to almost everybody, are poison to many. A prominent member of the
bar told us that one strawberry would poison him to such an extent that it would require weeks for hin to get over it. An elderly lady of our acquaintance will almost faint away at the sight
of a cheese, and wherever she goes this article is of a cheese, and wherever she goes this article is to many, poisonous and offensive. We have read
in a late medical journal a number of instances of in a late medical journal a number of instances of
those antipathies confirming our own observation. Some persons cannot eat a lobster salad without its having a very curious effect upon their complexion.
A lady indulged at supper time in a salad of this kind, and upon her return to the ball-room her face and neck immediately became covered with spots, obliging her to retire. A medical friend
tells us that eating veal gives a lady of his acquaintance the nettle-rash, and that orange-peel
has produced great nervous excitement. Figs, has produced great nervous excitement. Figs,
again, give rise in some people to a sensation like
the tickling movement of oats upon the palate.
Dean Swift said:-"It is with narrow-souled people as it is with narrow-necked bottles; the less
they have in them, the more noise they make in pouring it out."
Smythe was telling some friends about a wonder- A young lady about to be married insisted on ful parrot. "Why,", said he, "that parrot cries mong, saying, "He always throws so much feeling
"Stop thief, so naturally that every time I hear it into the thing, and I wouldn't give a fig to be I always stop. Now, hang it, what are you all laughys stop. ?"


Toasts avd sentiments. May the honest heart never know May care be a stranger where for-
tunc resides. tune resides. May our prudence securc us friends,
but enable us to live without their
assistance. assistance.
May sentiment never be sacrificed May our happiness be sincere and our joys lasting.
May the smiles of conjugal felicity May the smiles of conjugal felicity
compensate the frowns of fortune.
May the tear of sensibility neve May the tear of sensibility never
cease to flow. May the road of preferment be
found by none but those who deserve it. May the liberal hand find free access to theparse of plenty. be checkedby the power of necessity. May we always forget when we
forgive an injury.
May the feeling heart possess the May the feeling heart
fortune the miser abuses. May we draw upon content for the deficiencies May hope be thy physician when calamity is the disease.
May the single marry, and marry happy.

## Datmeal Diet

Undoubtedly one of the most healthful and nourishing articles of diet is oatmeal. When properly cooked and eaten with sugar and cream it
forms a dish which most people relish better than meat for breakfast, and is very much cheaper. Liebig has chemically demonstrated that oatmeal is almost as nutritious as the very best English
beef, and that it is richer than wheaten bread in the elements that go to form bone and muscle. Professor Forbes, of Edinburgh, during some twenty
years, measured the breadth and height, and also years, measured the strength of both arms and joints, of the students of the University-a very numerous class
and of various nationalities, drawn to Edinburgh and of various nationalities, drawn to Edinburgh
by the fame of his teaching. He found that in by the fame of his teaching. He found that in
height, breadth of chest and shoulders, and strength of arms and loins, the Belgians were at the
of bottom of the list; ; alittle above them the English;
and the highest of all the Scotch, and Scotch-Irish from Ulster, who, like the natives of Scotland, are
fed in their early years at least one meal a day of fed in their early years at least one meal a day of .
"Is that the second bell ?" inquired a gentleman of a colored porter. "No, sah," answered the
porter, "dat am de second ringin' ov de fust bell. porter, "dat am de second ringin" ov de fu
We hab but one bell in dis stablishment.

## atucle $\mathbb{C o m}$ 's 刃lepartacnt.

My Dear Nephews and Nieces, -A little advice about talking may be read with interest, and be beneficial to some of our nephews and nieces, who, when young, if corrected of erroneous habits,
are more easily broken. re more easily broken.
How tired we get of
How tired we get of hearing any one perpetually talking of their own affairs, their bodily ailments,
domestic trials, vexatious lawsuits, elaborate domestic trials, vexatious lawsuits, elaborate
schemes, or of their rich relations, and distinguished friends. No one is considered great merely because he knows great people. Always try to speak distinctly, not too fast, slow or loud, and not vociferously. Be careful nct to interrupt another who is speaking without sufficient cause. In ordinary conversation give your company a fair
chance, and do not monopolize all the talk, for there are peóple whose speech is like the steady How of oil from a capacious tank, and it seems as though it might gush on uninterruptedly for ever. Whatever you are talking about, do not annoy the listner with the perpetual question, "don't you think so?" This questioning often is an intolerable nuisance. Do not get in the habit of depreciating yourself, which is well understood to be one way for tishing for a compliment. If you have a the same subject every time you meet them. Do not talk too much about people, though the temptation is great, because most people are fascinated y personal gossip. It is a melancholy feature in our nature, that we retail all the little particles of scandal that happen to be floating in the air. There is nothing so despicable as the person who lespises everybody else. Finally, never allow
 much nonsense. It is disgusting and repellant to about anything, treating everything with ridicule or scorn. The general observance of these simple rules would greatly improve the ordinary intercourse of society. Uncle Tom.

## PUZZLES.

63-an enigma.
Ny first is in bread, but not in meat;
My socoud is in corn, , but not in wheat
My third is in garden, but not in field:
My fourth is in skinned, but not in peeled:
My fifth is in dish, but not in tub;
My sixth is in tree, but not in shrub;
My seventh is in conversation, but not in talk,
My eighth is in ramble, but not in walk;
My ninth is in fruit, but not in vegetable
My tenth is in strong, but not in able:
My eleventh is in game, but not in play
My whole is a city in Germany. ${ }_{\text {Allen Jones. }}$
4-numbered charade
Whole, I give a general view. 1,2 is my father; $\frac{8,}{5}$, my mother; 3, 4, 5,6 , my daughter; and 1, what the $7,6,1$ says, for while the 1,4 is
aavigable, the $5,6,7$, will supply us with wool. It navigable, the 5,6, , will supply us with wool. It
now being $7,4,5,3$, I feel inclined for a $3,2,1$, so
say adien.

My first is a circle; my next. you will find Much used by a very great part of mankind: If you happen to speak of yourself, my third
My fourth to progress, or ad anance. signities,
A motto for those who in life wish to rise;
My whole you possess-even now, it may be
You whole you passess even now, it may be
年
My first thing you must guess,
Part of a ship will best express;
My next you on the water do--
Ay whole will name a little bird,
Why whole will name a tittle bird,

My first you'll find's a negative; My second's an affirmative;
My third, if I should give the clueIt is not me, but you;
And if the three they are combined, They very soon will bring to mind
Something which is cordial and lnvigorating, toe.

Where is my primal ? look at home; Open your mouthand and see,
Or seek in primeval books, Open your mouth and see,
Where ancimeveral books,
Wossils be Mhere ancient fossils be
My second often wrings the heart, Brings sorrow to the head,
And sometimes makes the sufferer And sometimes makes the suffer
To wish that he were dead. My whole is very hard to bear, 69-Logogriph. At first I name a growth that's out,
Sometimes d dily, sometimes weekly. Transpose me, and then I become A support to strong and weakly. Behead me now, and straight I tell
What you my friends thus far have do Then transpose me, and I express What you might call a loved one. Once more, if you my form will change,
And perform it as it should be ; I name to you a little word That a brave man's motto would be. Cut off my head, and once again, Transpose my tiny form aright,
And a part of yourself I shall Finally reveal unto your sight


Answers to June Puzzles \begin{tabular}{c}
Alieni <br>
$56-$ <br>
5. <br>
\hline

 

Kineri <br>
$56-$ <br>
$57-$ <br>
\hline
\end{tabular} ${ }_{5}^{56-\text { Man, pan, ral }}$


 61-Stable, table, able
Stone, tone, ane.
Charm, harm, arm.


Names of Those Who Sent Correct Answers to June Puzzles.


 Smith, Sarah Vining, James Anderson, John Malone.
How Honorable mention is made of Nary Weeke
answerd the greatest number of puzzies correctly.
"Doctor," said an old lady, "I'n so tronbled in my sleep. Last night I saw, my grandfather, who
has been dead thirty years." "What did you eat has been dead thirty years." " What did you eat
before you went to bed?" Asked the doctor.-
" Nothing but balf had eaten the other half you might also have seen

Inside a Turkish Harem In Mrs. Burton's "Inner Life of Syria" we fin
the following pleasing picture of harem life:-"Th moment we arrive and are announced the whol which separates them from the outer world. They
will kiss ns and will kiss us, and take our hands, and, with all the
delight of children, lead us to the divan, and sit delight of children, lead us to the divan, and
around us. One will Hy for sherbet, another for
sweets, this sweets; this for coffee, that for narbergilenhot. They
are so pleased with a tritle; for example, to-day
they are are so pleased with a trifte; for example, to today
they are quite delighted because we are dressed
like them, and they consider thet they are quite delighted because we are dressed
like then, and they consider that we have adopted
their fassions out of compliment to them. They their fashions out of compliment to them. The
find everything charming, and are saying tho find everything charming, and are saying how
sweet we look in their clothes. If we were habited in our own clothes they would be equally happy,
because they would examine every article, would want to know where it was bought whate, woul how it was put on; and if they could find it in the
'sook' (bazar). Their greatest happiness is to pull your hair down to see how it is done, and to play with your hat. If you come in riding habit, they
think you are dressed like a man. A lady's clot riding under-garments are an awful mystery to
them, and they thint them, and they think how happy we are to dress while nobody says anything against us on that
account. They envy us our knowled a pendence, and they deplore the way they are kep and their not being able to know or do anything They say that we must stay all the evening witt
them, and are overjoyed at hearing that we They will prepare music and dancing, and sen round and gather their friends. Do you hear the
tom-tom in the garden? That means that the Sitt (Lady) Leila invites all the haremat th visiting-list to a 'small and early.' In about an hour a hundred women of their intimes will drop in
all dressed like ourselves, more or less magnificent and rease will burselves, more or less magnificen
ly. There perpetual nibbling of fruit sweets, and nuts, a similar sipping of coffee and
sherbet, amid the buble of the sherbet, amid the bubble of the fountains, and
fifty or more narghilehs. The singing music and lancing will be performed dy the guests, who will throw in a good deal of talent. It will be guit modest, and not require checking like the profes
sional performances

Be Independent.
There is nothing in this world that ensures suc
cess so completely as does perfect inderendenc People who are always waiting for help may wait
Peoren and a long time as a general thing; a little assistance a little recommendation, a little influence, is no to be had for asking, but there is ahways somether an
one can do for himself. Do it, whatever it is, an
do do it with a will. One thing leads to another.
If you are a girl, don't sit man will marry you, while your old father toic
 shop, or-if you know how to be a good servant
into some one's kitchen. Good, honest pluck into some ones kitchen. Good, honest pluck an
sensible independence are a dower in themselves, and there are men who know it.
If your means place you
If your means place you beyond such need, be
independent in another way. Learn how to yourself, and take care of yourself as much possible. Rather be one who does things for other than one who must have things done for you o
suffer. Two hands, two feet, sight and strength these ought to enable you to dispense with help
while while you are young and healthy.
We like men who can defy Stances, and could who can can defy adverse circum stances, and could earn a living in any quarter o
the world in which they were dropped down; who
can roll up their sleeves and set anything that offers, and who can even sew on
and and their own buttons and make themselves a cup of tea when deprived of the help of womankind. the servant girl goes off in a huff; who could wash a dress or sweep the floor, if either unpleas
ant effort were necessary and who if ant effort were neversary; and who, if plunged int
the depths of poert, would fight their own way
out of out of it, asking help of no man.
Independence make no
Independence makes no woman less loving. The
most helpful woman are fondest and truest; and
as for as for a man, never trust him in any capacity if he has not within him the true spirit of independence,
without which neither strenpth nor sweetn without which
In the battle of life there is but one way to suc ceed-fight it out yourself. (five the helpying hand
when you may. Take it if in some sore strait it is offered freely; but never wait for it ; be independent as far as any man may be, if you would hon-
our yourself, or be honored by others, or be happy.
\%tock zuters.
A meeting of the breeders and importers of
Clydesalale horses to effect a permanent organization for the parrose of compiiing and publishing a
Stud Book of Clydesdale horses for the United States and Canada will be hell at the Grand Paeific Hotel in Chicago, IIl., U. S., on the 12 th M. T. D.

Mr. T. D. Hodgins, of the London Oil Refining
Company, of London, Ont., has just returned from Company, or London, Ont., has just returned rom
a trip to sheep, Shopshire Downs, for breeding parposes,
which he will add to the stock of his excellent farm.
 Lamberts, Montreal P. O., and the anuual sale of
stoock at the Ontario School of Agriculture, Guelph, stock
Ont.
Mr. E. B. Morgan, cattle exporter, of Oshawa,
Ont. shipped on ond
Thusday (12th June) per Ont., shipped on Thursday (12th June) per
SS. Goving, from Bristol, four Shearling Cotswold rams, and forty-six Shearling ewes, which were
selected with great care, from the eolebrated dlock selected with great care, from the celebrated fook
of Mr. Henry Cole, Ashbrook Farm, Cirencester. Mr Mor. Manar sent out two taluable Exmeor pen
for breeding purposes, by the same steamer.
Fifty of the Canadian sheop recently exported
to the Bristol market, made the extraordinary to the Bristol n ner
We notice that the Imperial Government is adver tising in Ontario papers for tonders for supplying fresh meat for the army and navy at Bermuda,
West Indies. The quantity required is for army West Indies. The quantity required is, for army,
2,500 lls. per diem, and for navy, 213,009 lbs. per anmum. The contract would be for three years rom October next.
The North British- Agriecluturist tays: -Mr . S.
Sampeell Kennellar, Aberdenshire, has just ship ped four young, well-bred and promising short horns-two heifirse and two bulls-from Glasgow
for Canada where several animals from the same or Canata, where several animals from the sam
herd have already thanen a distinguised opsition.
Te heifers both belon to the Mina were got by the Booth bull Borough Member

 Ontario, ,hilie a long. with them has gone a fine
young entire draught horse for Mr. Isade.
${ }_{\text {Premiums }} \Delta \mathrm{T}$ Fairs. - In a large number of cases it is not the money value of the premium that gratifies the recipient; It is the fact that premium was given at all. Now that Fair sched. ules are being-or should be-considered and natter in charge, that a number of societies offe as premiums a year's subscription to the FARMER's ADVocite AND Honie Mackivir, and that those which have done this in a small, way at hirst have
found it so satisfactory that they have added to the number of premiums of this have and aded that
 vastly more to promote the objects of the society
than mere money prizes. Aside from the fact that one can not fail to be greatly beneefited by the
toaching of the FARMERS ADVocare AND Home $M A C A Z N E$, its regular coming once a month is a
frequent reminder of the society and its fair, and frequent reminder of the society and its fair, an
thum the interest of the teicipint of the roize in
the tair the fair at which it was given is kept alive the
whole year. If the officers who have yet to ar whole year. If the ofticers who have yet to ar-
range their premium lists will think of this matter, they will see that they can in no other way make
the money at their disposal go so far, and at the same time do as much good, as to ar
share of it in the manner suggested.
 lists have already tomentst of hanars and premium usual request to the secretaries or executive offí
cers of the various societies, to inform nis of the fair as soon as its date is determinere. We would
suggest to societies the importance of fixing upon suggest to societies the importance of fixing upon
the date early in the season and sissuing the
the schedule of prizes. In this is ieft until within a
few weeks of the farr, the work is often hurriedly
dowe end those who woul done, and those who would compete for those
premiums that reyuire preparations in advance, premiums that reyuire preparations in advanc
are deprived of the opportunity of doing so.

## Smith's Falls Agricultural Workso

 Foremost among the pionoers in the manufactur of arming implements and mawninery in Messrastands the odd and well-k own firm of Mer Frost \& Wood, proprietors of the Smith's Fall Foundry and Agrionltural Works, at Smith's Fauls,
Ont. From a small workshop, started in 1839 for the manufactare of plows, has, sprang the present
extensive establishment, in which are yearly made extensive establishment, in which are yearly made
over 60 o
ondereven horse rakes, 4,000 plows, 400 singio reapers, and
variety of other useful freming implements, whic have an enviable reputation thropghout the Do
minion for excellence, oheapness and efficiency minion for exeellenee, oheappess and efficiency.
The works. built mostlof of stone, ocupy about
two acres of ground, with a stroet frontage of 50 two acrese of ground, with a street fron tage of 500
feet and a dock frontage of 500 feet on the canal with storage of 30,0000 gquare feet.
One hundred and twenty.five workmen are at
present employed, but the number in brisk time has rn up to tone hundred and seventrifive. No.
bettor evidence anan be piven of the haracter ond better evidence ean eb given of the character and
method so the fair dealing of this firm than the fact that among its employees are a number who
have been in its servioe for twenty, and even thirt have been in it is arsono ototerorthyty that in inll the years
yo its existenoe work has not been suapended ed yofits existenoo work has not been suspended, ex-
cept for annual repairs during the Christmas holi
 out, When a month's delala was ocasioned for re-
building; whle through
the the the ups and downs of the commercial history of the oountry a steady
progressive growth has been maintained, and by progressive growth has been maintained, and by
the uniform excellence of its manufactures, and its liberal, courteous, and straightforward dealings
with its agents and patrons, the demand for its with its agents and patrons, the demand for its
productions has steadily increased until now a ready salen is fond for them in wevery portion of the Dominion from Manitobat to Newfoundland. Cata-
 treal, P. Q., or at their branch honse, corner of
George St. and Bay Ward Market, Ottawa, Ont. George St. and Bay Ward Market, Ottawa,

## (Cbymercial


What is the prospect of the produce market this year? is now the important question for the farmers. The prospects of more than an average crop are presented to us from almost every part of
Ontario With very good. In some counties the harvest promises to be fully an average one. In some fall wheat, we are informed, looks better than it has done for ears. From Elgin, Halton and Norrolk, the re ports are not so good. We may, on the whole, ex ect full granaries and large exportation of brea In thfs. England will need all we can spare The wheat is more favorable than earlier in the eason, while in others there are indications of decrease. The wheat production, on the whole will, it is expected, equal, if not exceed that of last year, when the surplus product of the country was unprecedented. The greater area of cereals will,
itself, give a harvest of unusual mangitude, and of itself, give a harvest of unusual magnitude, and to this we have to add the yield of, at the least, nn average, and there can be no doubt that any eficiency in the cropsof Europe will be amply me rom this western continent. We need not there ore loon forward an there will
the States-a less one sown, and a a a fighter er of tha in the harvest of 1878. We expect a fair crop of oats in Canada. It were well were we to devete nore attention to the cultivating of oats and corn give us a two fold profit. We would not be wholly
Iependent on the wheat market. and the variety of grain crops would be less impoverishing has been some change in this respsect for the better and we hope to see it go on increasing. There has been litle or no change in the English
ceipts of breadstuffis has been very large, and the continuanoe of such large receipts, added to the nigh approach of the time for the arrival of the bow wheat from the Southern States, giving an the European demand, prevent any adrance in prices. The market, however, is reported firm and steady in Liverpool and New York
Throughoat the North-westorn States the area of the barley is less than last year; nor is the crop
so promising as that of Canada. From our prin so promising as that of Canada. From our prin. able reports of growing crops.
Wool in England has advanced two cents per pound, and in the States there is a good steady demand, and prices prevail at good figures. We would advise farmers to avail themselves of the present good demand, as prices will probably de cline when manufacturers have enough wool to supply their immediate wants.

## Little Falls Cheese and Butter Market.

tutlle Fails, N Y June 28 , whlan The tone of the market can not be considered very flattering. At the commencement of the month grade below went at 7 ft . to 7 ct c ., and secondary at 6 ̧c. to 7c. The market was brisk, and dairymen generally were in high spirits over fature prospects. It was a surprise, therefore, on the next week, to find a decline in prices of fully half a cent, with a dall market, and slow sales. The transactions for the second week in June were about 7,000 boxes, at a range of from 7 c . to $7 \frac{71}{\mathrm{c}} \mathrm{c}$. per pound, while the bulk went at 6 gic. gloomy aspect. About 10,000 boxes of cheese were offered, but buyers were not anxious to purchase, and eales were slow, at a reduction of from half a cent to three-quarters. However, even at these prices dairymen thought it best to sell, and at the close of the market 8,000 boxes had changel hands at rates ranging from $5 \frac{1}{2}$ c. to $6 \frac{6}{2}$ c. About 4,000 boxes went at 6 c., and only 187 boxes brought $6 \frac{3}{2}$ e. Over 2,000 boxes were sent forward on commission.
For the week ending June 28th, the market was the dullest of the season, with prices down an-
other half cent. The offerings were over 10,000 other half cent. The oferings were over 0,000
boxes, of which 8,000 changed hands. The finest cheese sold at 6 c., while the bulk went at ${ }^{5} \mathrm{f}$ c. Anything not faultless, and strictly prime, was allow of sale at 5 c. to 5 攵., or lower, according to quality, and a considerable quantity was sent forward on commission.
New York factorymen are now making great efforts to put upon the market a superior quality
of cheese
as anything not un to the finct poes at of cheese, as anything not up to the finest goes at by buyers to be of the best description.
The butter market during the month of Jnae has been very steady, with little or no fluctuation for frocy and creameries. The ruling prices have been
for good from 13 c . to 14 c., and for fancy 15 c . to 16 c .
Grass is now abundant, and a fair yield of milk is being made from the herds. Notwithstanding he low prices dairymen are fully convinced that is betterto send for ward all products when ready, Lato avices tro Eulad
arts of English cheese are usually scarce and command high prices, thus showing how a good article is appreciated. English, chedders bring from 76 8. to 84 8. per ewt.
Secondary sorts of English cheese are not saleable, American taking their place, the quality of which is satisfactory, and prices low.

The best Americans sell in London for 43 s . to 45 s ., and secondary for 40 s. to 42 s . per cwt . The old crop sells as bargained for
For all sorts of secondary butter buyers can nearly name their own price.
Irish Clenmels sell for 100 s.; Dorsets, 120 s.0 Danish, 90 s s. to 104 s. ; and New American and Canadian, from 70 s. to 80 s. per cwt. Creamery 30 s , to 90 s , and old butter, 28 s to 32 s . per cwt

London Markets. London, June 28, 1879.

 Liverpool Markets.


New York Markets.

 Chicago Markets.


Montreal Markets


Detroit Markets.
Toronto Cattle Market Cattle-The loas market remains pretty steady, at full
price the continued export demand




 are in fair damand at tr
Pelentyor calves offrer,
best bring 8750 to 8 .

NEW ADVERTISEMENTSS.
Chioce Herd-Book Alldernejs.
$\begin{aligned} & \text { logues will be sent on application. } \\ & \text { HARRISON STEPHENS, JR. }\end{aligned}$ Patent Knife CURD MII工. This nill will pay for ite use in asving of quali-
ty and uantity gas by its use no white whey (cream) is squeezod out. Much better Cheese with less
skill can be made by the skill can be made by the -For further particulars, addross,
WHITMMAN \& BURELLL,
LITTLE FALLS, NEW YORK, U.S
 ors, oto. Bond for Catalogue. Jine Strert,
 aaelled from the Nowest D.esigns; which,


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 Our Fall Wheat Circular will be read arly in August. Reserve your order CAN. AGRICULTURAL EMPORIUM, Dg-if ${ }^{360}$ tiehmond street, London, On Farmers' and Garden ers' Attention is Called to
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soription of the machine, supplied on application FULLER \& ANUREW Province of Ontarite,
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 any mdress on ree ofp of fotyy cents.
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N.
Da-ts. W. KIT $\underset{\text { Grimsby, ontario. }}{\text { CHEN }}$
IMPLEMENTS.
The Planet, jr., Horse Hoe-Price, $\$ 12$ eeach. The Iron Age Cultivator"Iros Aok." Prico, 810 each. Blanchard and Union Churns
-The best churns in the market.
Circulars with prices furnished on application Cirectars with prices furnished on application
to the
Canadian Apricultural Emporium $\underset{\text { Cg-tf }}{\underset{\text { Canadian Agricultural Emporium, }}{360 \text {, Richmond street, London }},}$
PUBLIC SALE

Thoroughbred Stook. THE THIRD ANNUAL SALE OF TVE STOCK at the Ontario Experimental Farm tualph, will take p p
1879, when several
Shorthorn and Hereford Bulls, Shorthorn and Hereford Bulls,
Ayrahire Hoifers, a large number of Leicester,
Cotasold, oxford


 Wilh two hullinge chinders. All marien wibihing topurthese the bese clove Altand

THE SMITH'S FALLS FOUNDRY \& AGRICULTURAL IMPLEMENT WORKS

'INew-Model' Mower The Best in the Market:
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 clover, rolled down, after other machines
had gone over it and failed, at Yar-
mouth Centre, June 25th. 1878 . the heaviest sowed corn. Lighest
draught machine in the market!
 HARVESTER

THE WORID'S PRIZE REAPER, (an

Paris Field Trial at Mormont, July 22nd, 1878-Record, the highest and only prize offered, against 35 competitors. note variety-Single Mowers. 4 sizes; Single Reapers, 3 sizes; Combined Machines, Nos. 1 and \%. de. 4


## 品 Leonarid Farm Engina <br> \[ \begin{gathered} Best, ...the. <br> \substack{Largest, <br> Strongest. <br> and <br> in the market.

 <br>s.es
\end{gathered}

\] <br> \[

$$
\begin{aligned}
& \text { Sem. IEOTranar } \\
& \text { E. LENARO SONS, }
\end{aligned}
$$
\]}

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He for ${ }^{25}$ cents, Sent hy mail sealed GiIL 25) Miligint ind mishon-


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