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NO. 6

The Farmer's Advooate!
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eight wornpareil (a line consists on an average of eight words).
"Manumpaturess and Stock Breeders' cards inserted in
Special Lust") at 81 per line per ante

 Advertisisg accounts rendered quarte
should be in by bot oth of eure insertion
sonth.

On the Wing.
We find it necessary to leave our office occasionally to gain information and attend to business in connection with your paper. We wish to improve every department as fast as we can. These jour-
neys we shall report to you under the above hieading. May 9th, we went to Toronto via G. W. R. The winter wheat along the line looks well; the spring crops are mostly in; the land is in good order. The prospects for a good crop are very encouraging.
In Toronto we made arrangements about artist work, and went to Yorkville to see an eminent horticultural department of this paper. We paid a visit to the establishment of the Hon. D. McPherson. He has the finest conservatory in Ontario, and nicely kept grounds. While walking through the garden we noticed some very fine
dwarf pear trees,
perfect molels of health and beauty, and covered with fruit buds. Adjoining were some poor, why such miserable looking things were on the ground. Our informant said the poor ones were on quince stocks, and that many had already died. Our conclusion is to advise our readers to plant no more pear trees grafted on quince stocks; they may bear a year or two earlier, but they will not make lasting tree; they what a fors, whe you pant a tree you should look to the permanent beanty and utility of its character; no amateur or fruit grower likes to dig up dead trees.
In passing along the Davenport Road, we no ticed the palatial residences of some of our mer chant princes, many of which are constructed and kept up like European mansions, They are situater upon figh, elevated land. Two miles north of the
bay a fine view of the city is obtained; the spray
of Niagara Falls is visible, and Uncle Sam's territory may be seen while passing along the road westward. We noticed on the hill-side a fine crop of

Being so much pleased with it, as it was the finest piece we have yet seen, we went to the house to enquire about it. This was at the residence of Dr. Wood. The Lucerne was sown six years ago; nothing more had been done to it, except to put a little manure on the brow of the hill and to cut it twice a year; it is as good now as when first cut. At this time, May i1, it was ten inches high. Th red clover or common grass had scarcely com kept for hay, or the leaves will drop off No farmer could have seen this without desiring to have a piece to cut for his stock before the other crops are fit.
We called at the office of the
agricultore and arts association. The new secretary was in Chicago attending the Shorthorn sales. Mr. Buckland, the assistant, informed us that they are preparing a register for Cotswold sheep. The Canadian Berkshire Register is becoming patronised by the breeders. Several defects were pointed out to us in the Ayrshire Herd Book published in Montreal. It appears that the Ontario Ayrshire Herd Book will be preferred. We wished to know when thoritively would meet, but the time was not positively
known. It might be of advantage to the Associaation and the country if the meetings were made known to those who might have any business to attend to, or require any information in regard to agricultural affairs.
Hearing of a new agricultural enterprise, we directed our course to the
toronto reaper and mower manufactory. An American company has purchased a fine property near the Bay, and erected a spacious building
for the construction of reapers and mowers. The machine shop is large, airy, and much neater and cleaner than most of our factories. The machinery necessary for the works is the best procurable, and cost sixty thousand dollars. The land and buildings have cost a much greater sum. The firm are practical men, and they claim to have the best machine, and feel satisfied that the farmers of Canada will soen acknowledge it. It would benefit many of our manufacturers and finer office and better grounds around it than any we have seen. The implement they are directing attention to this season is Whitely's Toronto Mower. The machine appears to combine all the dvantages of the general mowers now in use, but the driving power is different, consisting of two cog wheels in the form of a disc, which are attached to the shaft, so that the power is carried
directly to the knife. We cannot describe the
mplicity of this machine. It is claimed to be of ighter draft, to be more durable, to cut where no ther machine can. The Company guarantee to atisfy purchasers; any quantity of references ility bility. We wish this new company success, and are pleased the Americans should come amongst us and introduce any implement, i superior to our own. It is of great ad vantage that we manuactured in our own country This implement deserves inspection, and it is our opinion that it will be preferred to many other mowers now in use. If you are intending to purchase a mower this year, and have not given your order, send to the above-named ddress and you will have a catalogue sent you, fiving a much fuller description of the machin than we have space for in this journal.
On our return trip, we met a man that had suekp worried by dogs
The farmer had not used sheep bells on his flock. We would again call to the mind of our subscrib them protected from dogs. in fact we think compensation should be given to farmers who ne glect the cheap and effectual mode of frightening dogs from their sheep by a bell about the neck of every twentieth sheep they own.

## Beef for Export.

The attempt to open a market for Canadian fresh meat in Europe has been a success. The butchers, dealers and graziers of that country Shrew many obstacles in the way, and endeavored impression in regard to to cause an unfavorable devices used to check the trade, barious were the which it has been hrade, bat the prices at attempt to descry it. The iease, difite obtaining animals large and fat enongh, the orly obstacle now in the way of our reaping a rich harvest from our beef. Our aim must be to increase the size of our animals, and feed better. The cost of feeding, shipping, selling and killing a small ox, is about the same as the cost of ship. ping a large one. To ship a cargo of small or lean lock would result in a loss. The shipping of the Our duty is to aim to supply this is found to pay. as possible aim to supply this demand as soon better. No rood farmer con breed and feed markets of our cities and towns ind the large quantities of poor, small, thin carcases to be found in the stalls, the farmers' wagons and sleighs, in the fall and winter, without knowing the loss that must be sustained by producing such a lot of bone and hide for such a small quantity consumable mert. We must endeavor to change nery sew fas as soon as possible. There are but has been fit for that have yet raised an ox that has been fit for export to Europe.

We may improve the stock we now have by better feed. We let our cattle degenerate in the winter. An animal should be gaining from its birth until slaughtered. An animal will make more beef and return more profit, if it is kept thriving for 18 months, than if fed as most of ou cattle are and kept for years. Breed has The Short-horns are now generally admitted to be the most profitable stock for the grazier on rich the most prontablestore lands. There are other breeds that have great merits. Short-horns are now to be procured at such prices that any neighborhood can easily command one. We have seen pure bred bull calves sell at $\$ 15$ and $\$ 20$ each. Should any of our readers in distant localities desire a cheap one, if they were to make their wants known they would probably find a response. Thns, all may
improve their stock that desire to do so. Of improve their stock that desire to do so. Of course, the choicest animals will there are pricos, according to aime to have the best. It is a good thing that a strong rivalry exists in the possession of the best Durhams. England, Canada, the United States and Australia may well feel proud of the spirit of emulation that exists in this struggle for supremacy. The enormous prices that the choicest Short-horns have brought have so completely bewildered and astonished the plain farmer, that he can scarcely believe the prices have been really paid. Twenty, thirty and forty thousand dollars for a single animal. Yet such prices may be paid, and profit There are but very few in Canada that can afford to aim at being owner of the best herd. There always will be a demand for the best. Their descendants tend to improve other stock.
Those that have commenced to improve their stock have found the advantage and profit of so doing, and are desiring further improvement. The farmers in Canada are as progressive as any in the world; there may be some more wealthy There is a vast part of Canada where a pure bred very sparsely introduced into the States; even in many parts of England they are only heard of, not seen by the peasantry.
When we were in France we were quite as much astonished to see the small, inferior-looking cattle, as anything we noticed. What farmer there could think of improving stock, in that country, where ten acres is a large farm, and the majority under five. We presume the whole world must eventually look to the English herds as a parent stock for their improvement and meat. Probably Chat improverent will be taken up by the tirely too poor and have too small farms to afford to import animals. You may depend if there were any better bred animals in the world, Englishmen would have found them out and introduced them long ere this. We would not advise our readers to plunge into the breeding of Short-horns too hurriedly, but when you are sure you can afford to keep a Durham cow get one and not before. Or you might join with your neighbors and purchase a young bull. Then keep your cattle growing from November till May, and you will be able to realize more than donl
than you now receive.
Canadian beef in England brings 12c. to 18 c .胃glish beef, or beef as good as they can there We can do it. Our grass, grain and climate are as suitable. Let us improve our stock, and feed better. We can make quite as good beef as they
can in England. can in England. Upwards of ten thousind quar ters have been shipped weekly from Canad
the States. This will be greatly increased.

## The Farmers' Produce Market.

 An atterapt is to be made to establish a market in this city to facilitate the business between the farmers and the consumers or merchants. The object in cimiar to the Enolish plan, namely; to have a room where farmers and buyers can meet at a stated time once a week, samples of produce es hibited and sales effected, the produce to be delivered at any time or place agreed upon. This will save the farmers the expense of bringing produce to market and taking it home again whe prices do not suit, and save the necessity of stand ing on the market.Farmers from any part of the country can bring samples. The best buyers will be in attendance and telegraphs of the foreign markets will be open We believe this will ber fill the buyer and seller, and will be patron
well-wishers to our general prosperity.
Should this attempt prove success
Should thils at ancessful, and we men are desirous of its success and will devote their energies to establish it, other cities and towns in the Dominion will no doubt adopt the same plan. It is to commence operations at once by establishing the
london cheese and butter market.
A large and influential meeting was held in the City Hall on the 19th of May, many prominent airymen and leading citizens being present. The folly dise and an roval manifested. The desirability of making this the centre of trade was shown from the advantages of the many railroads that centre here and the near facilities for navigation, the great convenience afforded to the ablest of dairymen to ttend this market and return on the same day.
It was not the intention of this meeting to in terfere in any way with the Dairymen's Conven tions of Belleville or Ingersoll, nor with the Chees Fair to be held at Strathroy, but to make this main or central market for the transaction o business on an improved plan. Rules and regula
Ths follo
President-Mr. John Wheaton.
Vice-President-Mr. W. Field.
Secretary-Treasurer-Mr. Geo. F. Jewell.
Directors-Messrs. A. G. Deadman, Delaware Jas. Evans, West Nissouri; Henry Wall, West minster; Samuel Hunt, North-streat Factory town; W. H. Stevenson, Iona; Jas. Ross, Boti well; B. Wood, Bryanston Corners; W. M. Kere shaw, Botany; W, B. Heath, city; J. S. Pearce city, and Alderman Jones, Chairman of Market Committee.
A committee was appointed to draft by-laws the same place, on Saturday, 26th, at 3 p.m.; and it was resolved that the first chese fair shall held in the City Hall on the following Saturday, held in the City Hall on
June 2, at 2 o'clock p. m.

## British Farmers Alarmed.

The great reduction in the price of beef is beginning to be thought a serious affair among the land-owners and the tenantry. Most probably a
better class of emigrants will better class of emigrants will come to our country
-farmers with capital ; we have plenty of room for such. The proprietors of the Scotchman (a first-class paper) have sent a reporter to this con-
tinent to enquire into the capabilities of this tinent to enquire into the capabilities of this country in supplying beef to Europeans. He will visit
Canada. We know well that our caphilities in that way are almost limitless; we could in years send annually enough beef to cover the whow of the island with a thick beef-steak.

The Canadian Entomological Society. But few of our readers are aware of the great work that has been done and is still being done by ated entle whese ambition is to excel in nowledge and to learn the habits of all our innocts. These gentlemen collect them from all parts of our Dominion; they study their habits and ascertain their utility or the injury they inflict; they also ascertain the best means for destroying those that are injurious. No one can imagine the destruction committed by them. In the United States it is estimated that the damage done by them amounts to
Wo hundred million dollars per anna. The United States Government has recently made a grant of fifteen thousand dollars for gentle men to investigate more searchingly into Ento mology in that country, with a view to decrease this loss.
We attended the last meeting of our Canadian Society. We found one member busy operating and examining a lot of small insects; another was comparing and examiong a mertsining to this study. The room is a small one, or at least not a guarter large enough for them to keep their cases of insects in view; they are obliged to have them in drawers with glass tops, and draw them out as required for examination; yet this fine collection, consisting of 10,000 specimens, is the largest and best on this continent.
This is the only society that publishes a monthly journal of 1ts researches, called the Entomologist. his journal is purely a scientific publication; there is hardyy a farmer in Canada who would. read and single number of it if it was presented to him, and
would only partially understand it if he did read it, although printed in our own language. It has only 300 subscribers, many of whom are in the States nd some in foreign countries; most of them conribute any knowledge in regard to insects that these insects with magnifying glasses by night and day, from the depositing of the egg one year till it becomes a chrysalis, a grub, a moth, and lays eggs
again.
If we wish for any information in this line, we go to the learned and gentlemanly editor of this journal, Mr. W. Saunders ; he is always most happy to give information to all. We wished to know the best means to destroy the caterpillars that are so numerous this year; the reply was that which the egrs are found, should have been destroyed in the fall. At the present time we must gather them by hand and destroy them. Secondly, we inquired what were the prospects for cabbages this year; reply-the batterflies that produce the cabbage worm are very numerous this spring. The cabbage crop will be in great danger of destruction ; parasites may destroy some. By plac-
ing two shingles in the form of a roof in several ing two shingles in the form of a roof in several found under the shingles, and may then be destroyed.
From this Society we receive most valuable in. formation about the Hessian fly, the midge, weevil, chinck bug, colling moth, curculio, \&c., \&c.; it
tells us the best means of battling with our tells us the best means of battling with our en emies. ThisSociety continually impresses on the public the necessity of preserving our birds. This highly useful Society receives lut $\$ 300$ per annum, per subscription to their journal, and from our Government, monthly paper from that. They laloor for our monthl
good.

They hold the exalted posited of publishing the best Entomological Journal on this continent. They also, at great expense, sent what was admitted to
be the best collection of insects to the Centennial be the best collection of insects to the Centennial Exhibition.
This Society sent their collection to the Centennial Exhibition ; our Canadian Commissioners did not place them in a proper part of the Exhibition. the collection placed where directed. The Centennial Judges never examined it, because they were not placed wereit shouldhed rebeen. Thishasbeen already placed wereit should have been. This has been already
stated to our Canadian authorities, and as a sop, or rather as an insult, they have been awarded a paltry silver medal, worth, perhaps, $\$ 1.50$ to $\$ 2$. Surely there are more than three hundred weal thy gentlemen and farmers that are willing to subscribe $\$ 1$ per annum for such a useful publication. If our Government were to undertake such a work, it would cost the country hundred of thousands of be half effeciently done.

## The Shorthorn Sale.

On the 6th of June, the most select stock of Shorthorns that will be sold this season, on this continent, will be disposed of in the city of London. The best breeders on this continent will be in attendance, and it is expected that one or more four Engish breeders will be represented at the sale. Prices will be paid that will astonish well what they are doing. No common farmer will get an animal, as the whole stock to be sold are choice animals. The railroads will issue tickets at reWe hope our Canacian our Dominion.

## Bone Dust.

alks with subscribers.
An English farmer now farming successfully in Canada has used bone dust with great advantage in both countries, and understanding the mode of crushing as well as its use, is desirous of po would like to meet with a few farmers or one with sufficient capital to aid him; he would invest between $\Varangle 200$ and $£ 300$ sterling himself. This would prove profitable to those engaged in it, and of great adantage tho enchipry would be erected firnges or farmers' clubs might consider this.

Surplus of Capital
A Montreal contemporary has under this heading a very suggestive article; nor is the announcement of an over-abundance of capital confined to one great centre of business. The intelligence may at first sight seem doubtful; the news may be place; as much so as the reported discovery of refreshing streams of sparkling cool water beneath the parching sun-rays in July or August, in the great American Desert. We read at the same time, and on the same autiority, of manulactories treets; of firms of long standing declared insol vent; of railway companies said to be "bankrupt concerns." The unmistakable signs of commercial activity have ceased to be familiar to us, and even among our farmers-the producers of our national wealth-there is heard the one complaint of want of money. Yet the testimony that there is a plethora of capital is not to be gainsayed. Never, we ,elieve, was there a greater supply of capital in Canada than at the present time. The number of banks - of town and deposit institutions-hav prosperous business. In one town we find ten
such societies, in another six, and so on throughout the country. We can entertain no doubt of "of capital at the statement: "The amount "that it is not likely outside influences will cause any very serious hardening of rates, nor are there any indications of any local developWe question yery much whether at any period in the commercial history of this country the amount of capital available for legitimate trade purposes was so large or so easily procured as at present."
How are we to reconcile these two business affairs of the country-the banking in stitutions having an accumulated capital availabl for legitimate trade purposes greater than at ang period in her commercial history, while, meantime the trade of the country, business in all its branches, that might, it is believed, pay fair dividends fo many of them, been carried on at a dead loss, and some of them have ceased to exist? There is plethora of capital in Canada-a country where industry languishes, where trade deelines. And there is wealth at least equal to that generally called capital; there is the raw material from which the wealth of nations is produced, and there skilled labor to convert the material into commo dities that would enrich the country and make the country what it might and should be-a land of active industry. Bvery class of society feels the on him the pressure may be lightest must feel well as others that accumulated money in a coun try does not imply that country's wealth. Money has been accumulating in the bank vaults, and owing to the severe depression of trade, there has been the greatest difficulty to find profitable employment, for it.

## Emigrants and Tmmigrant.

Men are becoming more restless than ever. They are seeking new homes, some of them in the prov many are seeking employment in the United States transferring to the Republic the wealth of brave hearts and strong arms. Every such emigration from our Dominion is a great loss to the country, reports it goes on incessantly. Every mail brings border to get that employment which Canada refuses them. A Nova Scotia paper, the Annapolis Journal, says :-"Last week we met on the train "a family consisting of husband and wife, two "blooming daughters, and two sons, lads of fourteen and twelve years, hieing away from their country to spend the rest of their lives in the American Union. They were leaving Nova cotia, the head of the family said, because riter ${ }^{3}$. riter, after estimating the loss to the province by "have emigration of whole farms abandoned on some of 'mountain ranges, the buildings tumbling down, "and fields that were once fruitful turned out t "common, and when we have asked, 'Where is 'the owner of that farm?' we have got an answer something like this: 'He's gone to the "' 'States; his son went there and settled,' or 'a ' 'daaghter went there and married, and sent for 'the old folks, and they have gone.' Thus is "'mery lues robled of its hone, and muscle, and brain, and thus is another people be ing enricherd by the valuable acquisition of our are mmons the best ortisans in the Union. They "are found in her ship yards bearing the Eppella 'tion of 'Boss.' We find them in her machine
shops; we find them in her factories, 'Boss'
there, too. We have found them, also, in the most responsible of all situations, the printinghouse, and scores of typos calling them 'Boss' "' even there. Who can tell what Nova Scotia has " lost-is still losing every day by the emigration " of her people? Bleeding thus at every pore, it "give us strength to complain."
give us strength to complain.
How is it that the increase in the population of the United States? To this question, so often asked, we reply that in Canada the course has been o encourage immigration to the country, and, hav ing done this, to rest content-to take no measure o give such encouragement to home industry that here be sufficient employment for our people, Canadians as well as immigrants; and the conse yuence is, they emigrate to a foreign country. So to the States, as there has been from Europe to Canada. Let us give a plain illustration:-
A man who had lived for many years in one the clearings of Western Canada, stood on the shore of oneof the great lakes, in a " brown study," to use his own expression. "More than a score o "years ago," he said, after a long silence, "I first "stood here looking at this great lake. High "water mark is no higher now than it was then, though for all those years that river has been carrying such a vast body of water into it, and ' other rivers, too, have been feeding it for hun "dreds and thousands of years." How like this our emigration! Immigrants are continually ar-
iving from every point of the compass. From unny France, and Iceland, as well as the British Isles, people of many languages and nationalities have sought a home in Canada. Many streams
have been incessantly flowing into the country, and still the increase of the population has no The great lake had an outlet that effectually preThe great lake had an outlet that effectualy pre
vented its waters rising above the high-water mark of the old time; so emigration from every province
of the Dominion is the outlet that is keeping down the number of her population. It is a matter of
even greater importance to provide employment fo those who would be glad to make a permanent home in
come, w
States.

To "A Young Drchardist.
Your trees are "hide bound." No doubt our Thispondent has known animals "hide bound. This, too, is the name given by gardeners to the cannot expand ; it binds the tree firmly in it grasp, and prevents all healthy growth. It origi nates from the soil, which was not properly anlt vated before the planting of the trees. It is no of the tree to be planted. It is necessery that the whole ground be cultivated to a sufficient depth so that as the roots extend horizontally and perpen dicularly they meet in "hard pan," and may from every side get the required food. In cases of hide bound treess the disease is usually indicated by gray lichens on the bark-a sure sign of waning vitality. Lichens and fungi feed not on the healthy but on whatever is hastening to decay and decom position. As the evil proceeds from the soil, so
must the remedy be applied principally to the soil Feed and cultivate it, and it will supply the tree with proper nutriment ; and in such instances it will not be enough to improve the surface of the
soil. Meantime, while combating the cause of soil Meantime, whie combate we must attend to the disease itself.
the disease, weat
Went Wash the tree well and repeatedly with weak lye,
This will have a good effect on the "hide binding, This will have a good effect on the "hide binding,"
besides, it will destroy the eggs of many insect besides, it will destroy the eggs of many insects
most detrimental to the fruit crop. Linseed oil is
recommended insteal of lye as heing more effec-
tive for the destruction of insects, as well as a tive for the destruction of insects,
remedy for lichens and their cause.

## Crop Prospects.

 The crop prospects are even brighter than when we reported last month. The ean the latter part of May. The weather turned cold, nearly approach ing to a frost; in fact, in some low, damp localities ice was seen, but on high, well drained lands none was observed. The wheat on some farms was gain ing too heavy a growth; some farmers had com menced cutting the top blades, to prevent it getting too stout. The few cold days gave it a most beneficial check. It is now probable that we may pass the l0th of June without further frosing The meadows and spring grain have as promiserd an appearance as we could wish.of a few localities where the grub and wire-worm of a few localities whe of the spring crops, but the are affecting sarted is small, and only on a few farms. The apple crop promises to be a very light one in this locality. The trees bore so heavily last year, that blossoms are very sparsely to be found this season.

Caterpillars are more numerous this year ; they give a lot of work to the careful fruit-grower. The curculios are not as numerous as last year therefore, we may expect more plums. The potato bug is on the war path, wimenens army of countless millions, and has taken possess sion of every potalo patch in will take possession of that crop. Paris green is the pounder for him. There is a wonderful difference in the strength o this poison, Messrs. B. A. Mitchell \& Co., of this city, have supplied us with the genuine, unadulter ated remedy. They sent out tons of it last year, and it did its work effectually on the patches where it was properly applied; but some farmer did not kill all, and the advance guard of this f is like an army. We must kill and kill again.
the markets.
One overreaching farmer came to this city to sell his clover the beginning of this month, and was dreadfully disconcerted becanse he could only get three-fourths of the price he had been offered for it a few weeks previous. It served him right. Another farmer in this county has a thousand bushels of wheat. He refused two dollars per bushel; he is also on the whine. The fact is that many Americans thought half the prices depend on their supply; but the world is too large. Americans will lose immense fortunes. One man in this city held 25,000 bushels. The fall of 30 to 40 cents per bushel is a heavy item. The market for everything is good. Nothing has declined as for everything is good. ward tendency.

Culture of the Turnip Crop.
This number of the Advogate comes into the hands of its readers as they are preparing for turnip sowing, so that a few words on the sued
in good season. We have, it is true, treated on turnip culture in a year that is past, and many of our readers, no doubt, are well versed in it, both in theory and in practice, but many are not so, and the enquiries as to the cur frombscribers in sec able crop that we whart; tell us tions of the counch still to learn something of root growing.
The soil suited for the growth of turnips may be found in every part of the country; we believe that on every farm there is land that will produce good crops of turnips; that best alapted to them, hewever, is such as is deep and friable, or can miate so without too great labor. If not rich,
must be made so. Light soils have been calle made so. Laght soils have
turnip soils, from their natural adaptability to the turnip; but we have seen good crops of turnips habor than on light land. For turnips, any land hould be rich as well as deep and friable, and this is one advantage of turnip culture. In order to obtain a good crop the farmer is necessitated to bring his land into good condition. The succeed ing crops pay the bill.
Keeping down the weeds, or what is still better preventing their growth, is an essential point in successful turnip culture. Wish; an additional is not very hard plowing, some exient for the purpose. The land having been skim-plowed after the previous crop having been skim-plowed after to perminate, and then plowed deeper late in the fall to kill them, and to expose the soil to the beneficial action frost, and lying well formed in ridges till the spring crops are sown are the autumn and fall prepara tions. Then about old May-day (May 12) plow cultivate and harrow thoroughly. This May-fa lowing will kill almost all the weeds, seeds an roets. They cannot endure the parching which pretty generally experienced in our chater they that month. If a few weeks show that they are not among the killed, a eew strokes of them. efore the drills be opened will kill them
Manure coms of weeds. Not only has the land its wn growth of weeds, increased from year to year by the shedding of seeds and propagation from the rots, but it receives a large increase from the nanure heap, when proper care has not been used in its composting. To prevent this evil the ma nure heap should be turned over entirely some weeks before being applied. By this means the seeds that would be brough hat their vitality ground with the manure wil h on manure bette destroyed. For tumps if properly composted. than that of the armplication of guano has sometimes aditional appor of great benefit, forcing the plants earlier into their second stage, the rough leaf, before the dreaded fly has time to do its work of destruction. Manure is either spread broadcas on the land before drilling, or else spread in th furrows when the drills are formed, and the ridge then split to cover it. Each method has its specia advantages. When the manure is applied broadcast the whole of the land when spread in th lized for the succeeding crop.
drills the turnip crop gets the greately after th Trills are formed, while the soil is cool and retains its moisture. The benefit of sowing seeds in freshturned soil is well known to gardeners. The drills should be about twenty-eight inches apart; less does not allow sufficient space for their cultivation. Let the seed be covered to the depth of an inch and a half. For covering no other implement is equal the roller if the ground be dry. We prefer thick sowing, though it may sow wast to have to pull ont so many pth besides, there are apt in forcing a rewer missed places.

## Trial of implements

If our Board of Agriculture were to expend the same amount of money in getting up a trial of im plements, they would do much more good than by expending it in plowing maloss, townhp and ounty socicties and farmers clubs can get no thes matches, and the men a trials of plows at thes skitl just as well. The trials of plows at these
matches are no guide whatever to the right kind on plow to purchase for general use or profit, as the orp as that done by the commonest plowman witl op as that done by the
the most ordinary plow

Competition with the Dairymen. The extent to which the manufacture of oleomar ${ }^{2}$ arine has increased is an instance of great cometition the genuine has to stand with the preended commodity. The American Bureau of tatistics has published a statement showing that he exports of oleomargarine, or New York for seven mo be of the value of mounted to $3,594,520$ pow 481,747. 2,23229 pounds to Great Britain.

## Hints to Dairymen, No. 16.

Written for the Farmers' Advocate, by J. Seabury As the hot weather will now soon be on us, when the dairyman will require to exercise the utmost are in the handling of his milk, a few remarks will not be out of place. Too much importance calk an be attached to the proper cooling of the mit. Un getting the cowey or animal odor out cannot b made. The finest cheese has a sweet, nutty flavor which is a very essential requisite, and this is something which cannot be retained in the cheese by the best makers unless each and every patron has used every precaution in the ceans and sweetening of his mik every mess of mionerizg. A great many have by cooling and deocoribility with which new milk解 idea of the air or in the vessels in which it is contained. The careless and indifferent patron is not only doing himself a great injusticc, but is wronging his neighbor and fellowpatron. The patrons of a cheese factory are in reality partners in a branch of business which is or their mutual benefit, and he who disregards the rules and regulations, and does not use the necessary precautions in the care and handing of his milk, should be ejected from that partnership. Hence the importance of every patron taking the tmost care, and endeavoring to do his duty and do all
same.
I dar

I dare say many readers of the Farmer's Advo ATE often say " O , it's all very fine, this connual lecturing the patrons. showing the actual loss to themselves and to the country every year by the bad and improper care and management of their herds, and also by the neglect and indifference in the care, treatment and management of their milk, cheese butter, they would startle any on. could only take the piting the factories and see pers for andities of cheese and butter that are far from first quality and which come from no other cause than the improper treatment of the milk by the patrons, or at least some of them; if they could, and, in fact, a great many of them might take such a trip, they would come home satisfied that we have good reason for saying so much and for bringing it again and again before them. A writer in one of the public prints a few weeks ago, in speaking of the "Hog in Connection will the the Cheese Factory," "ttempts blame of bad cheese on the uncleaniness of the cheese maker and the poor hog and his surrone blame ings at the factory. There may be very sorry to start with that as the chief cause for poor cheese. There certainly is room for improvement in the treatment of the hog and his yards at the factory. As he says, and very truthfully, "that fresh milk is a powerful alsorbent of odors, he must bear in mind that when the memperature of $94^{\circ}$ to 98 is the time when it is most susceptible of taking
in any bad odors. For every mess of milk should be cooled down before it starts on its wandering journey to the factory. Milk, when reduced to a temperature of $60^{\circ}$ to $70^{\circ}$, can be kept in conjunction with bad odors with much less danger than when at a higher temperature. If the author of this paper would visit the patrons of almost any factory and see how many of them have good, many more do their milking in a cleanly manner how many more use good, clean, sweet tin ails how many more use good, clean, sweet, tin pails trouble in deodorizing their milk and cooling down to \& proper temperature, I think he will come home with the conviction that the fault does not all lay with the cheesemaker, or in the hog and his yard. I have often made the remark, "If cheese could only be made without whey, cheesemaking would then be a very nice thing.
tainly think the question causes the manufacturers more trouble and the patrons are more dissatisfied with its management than with anything else about one-twentieth part of the cheese, ieth part of the cheese
Another thing he takes exception to is returning the whey in the cans, and that the "nastiest the whey returned in the cans." I fear there was some other cause than the mere fact of the whey going home in the cans. It is an old saying, "Of two evils, choose the least," and when there is not the proper ground and facilities for keeping hogs, by all means let the whey go home. There has been a good deal of objection raised to sending whey home in the cans, and some makers have gone so far as to require the dres back with the or hogs standing alongside, and venerally empty cans standing alongside, and generally In my opinion this objection is a wrong one, for if the patron does not çlean his can with the whey returned in it, there is nōt much likelihood of his doing so when it comes home empty. A can that has carried milk to the factory and then stood for an hour or more on the drawer's wagon in the hot sun on its way home will be anything but sweet. And of the two, the one holding whey will be much the easiest to clean, and, in fact, to sweeten. A statement appeared in an agricultural paper
not long ago that when a Jersey cow was fed on not long ago that when a Jersey cow was fed on dried lawn clippings late in January, the butter brightened up in color to a very noticeabn clegree This is a very strong probstitute for creen grass Now, to have your cows keep up the flow of milk right along through the fall into the winter, you must find as near a substitute as possible for green, fres grass. What shall be the substitute and how prepar t , are questions for every practical dairyman to discuss and study up ; for circumstances alter cases, and what suits one man's farm would not exactly suit another. There is no doubt that green gras dried is the nearest and best substitute for gree is a vast difference between green grass dried and ripe grass dried. Too much of the hay that the cow has to masticate and convert into milk nothing more than ripe grass dried, and much it very ripe into the bargain. On this the cow expected to keep 4 p her system and give milk. dry as soon as they are put upon this treatment of food? I am fully convinced that if our dairymen would cut their hay earlier and cure well, and then feed judiciously in the fall and winter, with thei cows under proper shelter, we would find then milk, The importance and value of early cut hay is becoming more senerally known every year, and
very much more importance is being attached to it. In the New York dairy districts hay is now cut twenty days earlier than it was twenty years
ago. ago.
There There is one little item which the butter makers throughout the country are very careless and in
different about. Were it an expensive item, or different about. Were' it an expensive item, or
one very hard to be procured, there might be some excuse, but it is not. I refer to the salting of but ter. If the makers knew the great objection $t$ coarse salting in England, and the loss which some shippers have to suffer through that little item, salt, I think they would be more careful what salt they used. Procure the best and finest salt that you possibly can get, and see that it is well and finely ground before going on the butter. A great man butter makers have the idea that salt preserves th butter, and hence they think by putting plenty salt in, their buttor wis is for and to counteract the effect of what little butter milk may be left in the butter. If everything wer all right, and no buttermilk left, butter would kee without any salt by being kept from the air. Eng. lish consumers of Canadian butter are so accu tomed to using a fresh, lightly salted butter that when they come to use our butter, in which you can feel the salt gritting between the teeth, it co pletely disgusts them with Canadian butter
An attempt is being made to establish a cheese fair in the city of London. Judging from the feelng expressed by a number of factory men, and way in which the matter has been taken up by
number of citizens, it must eventually be a success The railway facilities which London possesses make it one of the best points for holding a fair of this kind in Western Ontario.

The Kitchen Garden.
Written for the Farmers' Advocate, by G. Vair. The late repeating showers will have made in time to the proper thinning of early crops, such as carrots, beets, parsnips, \&c. Much more profitable and satisfactory will be the result of your labor by proper attention at the proper time, keep ing in mind always the old adage, that a stitch in time saves nine, for if allowed to remain too long, a consequent spindling of the plants is the result, and many days elapse before they assume anything turnip fly makes its appearance among the Brainea (cablage) tribe, especially the newly planted ones, apply soot, wood-ashes, or slacked lime, but what I have found most effectual for their extermination is the sweepings and refuse from the tobacco factory, scattered over and around the plants. (Mr. Beetle doesn't like his 'bacca.) Now is the time to sow cucumber and the Chinese Gherkin for pickling. Bloor beets may still be sown where they are not wanted to grow large ; they grow too large for culinary purposes if put in early. Cauliflower
for late crop may be sown to the loth of June. Now is the time to prick out celery from the seed boxes. Put up a few rough boards, forming a square in a partially shaded place; put to the depth if four to six inches of free, rich soil, and transplant out two or three inches apart each way. Water well; indeed, never at any time allow the plants to suffer for want of water. As neatness is a desideratum, means should be adopted at once to keep the weeds down, which will be beginning to make themselves unpleasantly visible
flutt iderartment.
Pcars.-The prospect for a large return of this slug, so called, will soon be putting in an appearance, and if left to prey upon the foliage any length of time the tree will ultimptely be ruined.

I have found dry slacked lime a most effectual cure for these pests, or if lime is not at hand just when wanted, a few handfuls of fine sand or dust thrown
with some force on the upier surface of the lenves with some force on the upper surface of the leave losely to the glutinous-like back of the insect, his locomotion is impeded, and he rolls off to the ground.
Gooseberries.-Although not quite so much a home in Canada as in all parts of the British Isles, yet, notwithstanding, there is quite a number of he that succeed very well indeed, nd claper noil, which ought to be of a vers weather. Among the best varieties that I hav found for this climate, and not apt to mildew, are st, Whitesmith, an old favorite kind; 2nd Lion. Just about this time they will most likely be attacked by the caterpillar; if so, go to the near est druggist and procure a few ounces of Helebor (Heleborus Nigor), put it into a common pepper box, and dust the bushes over in the morning or ate at night. Some advise mixing the helebor with water, $1 \frac{1}{2}$ oz. to a gallon. For my part I hav or many years used it most successfully in a dry state. The same application will do for the re and white currants. The hotter the day the hel result it ans the rays hence, the complete annihilation of the pests. Plum.-I have just a few hints to throw about this fine fruit:-Facing the east and shel tered from the afternoon sun from two o'clock by a high barn, at Chestnut Park, are two fine plum trees, a Lombard and a Imperial Gage, that have been bearing. large crops of fine fruit for a number of years, un attacked by the curculio or black knot The ground is kept constantly covered with hard coal ashes from the green-house furnaces; an ad dional coating of ashes is put on every year for th purpose of in plants open in promising plum tree (the Orleans variety) stands, although promising an abundant crop each year for years past, scarcely a plum ever reaches perfection. I attribute the successful fruiting of the two former varieties to the coating of ashes on the ground. If any of you numerons readers, Mr. Editor, have noted any similar facts, it would be gratifying to hear from them. I may have something more to add on th subject upon a future occasion.
lower garden.

It is very gratifying to notice the growing taste throughout our cities and suburban residences for howers. It is also gratifying to note that amongst
 confess, they are very far behind the, times and what indication of a hieher civilization, refined ides a deeper morality; and a word to those that have Give of your abundance a few roots now and again thereby influencing your neighbor, him or her, as the immortal Cowper says

To pursue the arts without a crime,
That leaves no stain upon the wing

## Potato Bug Machine.

## Fo W. H., Blenheim. We do not kno

We do not know where the machines are made;
have written to enquire; will let you know so soon we can find out. Mr. Lapierre, the farmer that used one last summer, said that it was cheaper and
better than using Paris green. He said he took off better than using Paris green. He said he took ofr
two bushels of bugs rrom one acre, going over
the ground twice, about two weeks apart. The the ground twice, about two weeks apart. The
machine runs along like a wheellarrow and
me gathers the bugs int
said the price was $\$ 5$.

## 

## The Ontario School of Agriculture.

 Sir, - I notice some strictures on the above-named Institution in the last number of the ADvocamed Being a recent graduate of the School, CATE. Being a recent graduate or the
with your kind permission, Mr. Editor, I tal.
liberty of saying a few words on the subject. Although the Institution is not yet the acme of perfection, as some seem to think it showir be, yea I venture to say that the best orn ory
lemething, and our ordinary ones much, learn something, and our ordinary ones "polit ical shuttlecocks" to the contrary notwithstanding As regards the expenditure, at which many
grumble, I much doubt if there is more rigorous economy observed at any public institution in th country than at the Model Farm. This is especial ly true in regard to the current expense. expenty necessary, and should in time prove a good investme
The money yearly granted to the Farm by the Legislature is large, yet small when compared numerous to mention and not always worthy. Taxes may be heavy and retrenchment demanded somewhere, but it is surely short-sighted poicy fit the most important interest and business in the fountry, viz: the agricultural. It is much to be feared that many condemn without duly sifting the evidence (which can be easily got), and with-
out proferly considering the facts of the matter. However, there is no doubt that more careful inspection is needed ; and this should be looked into by the farmers themselves, at present ough for their own best interests and that of the Farm. Before closing, I may say that there ough to be a change in one of it should be so of the whole community it shourd be s.

May 9, '77. D. McK. McK.
Inverness, Lakeside, P. Q.

## The Royce Reaper

I am pestered with agents. I want a reaping
machine, and everyone claims to lave the best. machine, and everyone claims to lave the best.
am inclined to try a Royce Harvester. Have you am inclined to try a Royce Harvester. Nour pinion
ever seen it at work? and what is your opely
about it? A reply would oblige. [We have not seen the Reaver, Heycucefeeter. at
[Work hut are very favorably impressec with its work, but are very favorably mpressec with its and the price, are much in its favor. Some manu-
facturers of other machines say they will not last as long as heavier machines, nor work so well in heavy grain, but those that have tried them ap. pear satistiod with them. Messrs. Hags cert
of Brampton are among our first-class implement makers, and have 140 menemployed at the present time in making the Royce Reaper only. There are two other firms manufacturing them; imita-
tions of this machine are also made. We should have no hesitation ine purchasing one; and we be-
lieve there will be more of these machines sold this lieve there will be more of these machines sold

## The Best Kind of Posts.

 Seeing the enquiry of F. M. E., of Porter Hill, about building wire fences, and having ince ind and about, and finding it to be so economical, neatand efficient, after ten years' trial, I can recomand efficient, after ten years' trial, I can recom
mend it as answering the full purpose of any $\underset{\text { Beince. }}{\text { fen }}$ Being in a straight line (as all fencess should be
Bend taking up littere room, it is easily kept clea of foul growth, does not obstruct a landscappe view is a sure preventive against snow-drifts, will be all these advantages going to make it a chery desirabl failure in a wire fence is in the slackening on the wires; this is not the fault of the fence, lut, keep the strands tight on my fence, and I notic
that it elicits a good deal of enquiry as to how that it elicits a good deal of enquiry as to
do it, so I will attempt to describe e hitere.
I had common-sized fence-posts site using half-sized ones, two to the rod, and larg
solid posts at the end, set very firm and deep, and
well braced back to the next one; a bottom board 8 by 14 inches, and top rail 2 by 4 (but 3 by 4
would be better), and be sure to have it end up against the end posts to help to brace them; then
fill in between these five strands No. 7 galvanized wire, gauging from the bottom board, the first space 4 in., the second 5 , third and fourth 6 , and
five and sixth 7 in., the wires being secured by staples driven into the posts just enough to allow The end posts may be 20 to 45 and 60 rods apart; he end posts may be 20 them very firm, then bore holes at the proper gauge for each wire, those at one end rawn through and looped, putting in a the the end get a blacksmith to prepare five rollers of about nch iron six inches long, square down one end so
s to put a crank on (one from the grindstone or anning mill will answer the purpose), and near he centre have two quarter-inch holes drillei
hrough an inch apart; a strand is run through hrough an inch apart; a strand is run through
he post and one hole of the roller, the crank put on and the wire stretched, and when sufficiently tight the waste is cut off and the end inserted nail or iron pin, which keeps it from untwisting; and so with each strand till the fence is complete. To keep the wires always tight, apply the crand once or twice a year so draw them necessary.
but after a year or so it is seldom As for cost, I find it the cheapest fence I can
build. The No. 9 common wire is now five cents per pound ; and as it takes just one pound to the would cost 40c. But I prefer a larger wire, say
No. 8 or 7 and I believe that by nsing a No. 8 or 7 , and I believe that by using a large number of strands 1 can dispense w post every two
bottom boards. In that case, a rods would be enough, with a small
or eight feet to staple the wires to.
I am now trying another plan, which, if it hundred years. I have planted a nice, straight row of elm trees twelve feet apart, two feet inside miy wire fence, and intend, when the posts of this
fence fail, to transfer the wires to these trees and staple them on as before ; then once in a year or two draw out the staples a little and not let them grow into the tree or hecome
wire can slide in the staple as the tree sways using heavy end posts as before. So I believe one may have a fence of live posts and iron strands
last forever, as far as the builder of it is con last forever, as far as the build and be rathor an ornament to my premises. H. Ives, Batavia, N.Y.
[We thank our N.Y. corrospondent for his reply.
The plan of planting a row of trees to nail the wires to is one that commends itself to everyone We feel safe in advising our readers to make a
note of this, and to put it in practice. A row of young saplings can be easily procured from the woodland near is raised from couttings, or can be procured
and very little cost from nurserymen. There are many other trees more ornamental and more use ful, but would cost more and are of slower growth, tree, which makes a very handsome ornament, a
good shade, useful wood, and produces a good rruit. The time is coming when some of ou
farmers will make money from nuts; why no bogin at

- Ev.].


## The Timber of Britsh Columbia.

In writing on the alove subject it is necessary
to explain that this is no scientific letter, but one written by a farmer to guide (as far as the writer' this country. This letter will centain nothin more than any person living here can see, and distinctly wish to state that all that is
we is from my own personal observation. me is from my own personal observation.
The first of all is the Douglas Fir or Oregol Pine, which grows to a height of 150 to 200 feet, is often eight feet through at the stump, and car-
rying its thickness well up. The wood is hard and chips badly; the greater part of the trees split tough, although a few here and there split freely. Ten-foot rails are worth 2 c each at the stump; ; or 1.25 at the stump. Fir rails make a better
fence than cedar. The land upon which these firs grow is also covered with underbruss, and is the
 water.
the soil. The trees that fall down rot so slowly that the cultivation of these lands is very expen-
sive. I have seen trees which must have been down twenty years, and were as sound as the day
hey fell. It is not known how long it takes hey fell. It is not known how long it takes
fr stump to rot, for a number of them around fir stump to rot, for a number of them around
New Westminster, cut in 1862, are still sound, New sem likely, to remain so for years to come
and
Sawed fir lumber is from $\$ 12.50$ to $\$ 15$ per thouSawed fir lumber is from $\$ 12.50$ to $\$ 15$ per thou-
sand at the mills. There is a kind of fir which sand at the mills. There distinguish it from the
grows in swamps, and to dist
Douglass Red Fir it is called Black Fir. Thi Douglass Red Fir it is called Black Fir. This kind of timber is scarce and rarely over eighteen
inches through. It is hard and will not rot in The Cedar (Thuga Gigantea) is certainly the most useful kind of timber the farmers have here.
It grows to a great size, for I have seen some It grows to a great it is very plentiful, and on this account is generally used for house tan can
and fences. It is very easily split, and a man can and fences. It is very easily split, and a man can get out about 15012 -toot rails in a day. . ered, and rails $1 \frac{1}{2} \mathrm{c}$ each at the stump.
There is but little Oak growing, and that only in The Spruce grows principally The Spruce grows principally in swamps and on
the banks of rivers. Some of it splits very well, but it is not much used as it is more liable to rot han fir or cedar. A spruce stump takes about
hix or eight years to rot. The average size of six or eight years to rot.
spruce is three feet through.
Hemlock grows on fir lands, and makes very good piles for salt water, as the worms do not readily
attack it if the bark is left ou. It is softer than Canadian hemlock; the average size is two feet through. No hemlock and but vers little spruce is sawed into lumber, and there is no sale for the
bark. Barrels are made of red fir and butter kegs of spruce.
The Willow or Poplar is soft and too brittle for basket work. There is a large tree growing on the
banks of the Frazer called Cottonwood, but I think it is a kind of willow.
There is a sort of Balsam, but the growth is himitengh; the wood is soft, splits easily, and is sed for rails.
Maple is plentiful. The wood is not so hard as
the Canadian varicty. Carts and other agricultural implements are made from it. No doubt, if greater means of intercommunication existed between here and Ontario, wo should import all our
agricultural implements from there. No maple sugar is made here, owing to the mildness of our sugar is
winters.
We

We have White Pine in small quantities, and We wood is similar to that of the Canadian variety. nills.
The Alder grows on low laying lands, and is on average one foot through. Saluable for firevood is often $\$ 4$ per cord delivered. The alders row very thickly; sometimes as many as one
undred trees are found on an acre of ground. The stumps rot out in four years, and these alder oottoms are our very best agricultural lands. It
is necessary to mention that very little cultivation is necessary to mention that very little cet.
Birch is not plentiful in the lower country; the
bark is not so tough or the wood so hard as the bark is not so tough or the wood so hard as th
Canadian. anadian.
nd Hickory do not grow here at all. That finishes the trees; and all the common
sorts a farmer is likely to notice are mentioned, I think. Now the underbrush, and first is
The Crab Apple, and very plentiful it is. It is
never more than one foot through, and very rarel never more than it for many purposes where hard
that. We use it wood is required ; as axe-nandles, mauls, spokes of whells, etc.
The Vine Maple grows in great abundance, and
is not often as lírge as the crab apple. It makes is not oxten as lirge as the crab apple. It
good axe-handles, as it is tough and springy.
We have also lots of berry bushes, such as Red
and Blue Hnckleberries, Wild Raspberries, Wild and Blue Hackleberries, Wild Raspberries, Wild
Gooseberries, Wild Black Currants, Jalmonberries, Gooseberries, (two kincks), Wild Plums, Sall-lall berries, and a lot more I cannot remember. I most forgot the Wild Cherry, which grows on
tree the same size as the Alder. There are tree the same size as
Bearberrics and Dogwood.
The thermometer stands at $50^{\circ}$ in the shade
most days, and 10 lower at night. Beautiful most days, and 10 lower at night. Beautifu
winter ; everything is lovely, and hay $\$ 25$ a ton!

The farmers will have lots tó sell if it goes on like
this. The cattle get quite a lot of feed out now, and so require less than usual. I must conclude, with best wishes, \&c April 2, '77.

## Canada Thistles.

Sir,-It has been said by some one that "he
who caused two blades of grass to grow, where only one grew before is a public benefactor." Now
I notice trat a good many farmers, who no doubt would lay claim to having performed this public service, do another act which will overbalance the
henefit a hundred-fold, namely, allow a hundred Canada thistles to grow where only one, or perhaps none, grew before, and I am sorry to os ay that
few in this part of the country are entirely innofew in this part of the country are entirely inno-
cent of this charge. The increase of thistles is really alarming, and the question, "What is to realy alarmith, them?", very important. Some
be done with
townships are appointing inspectors to try and entownships are appointing inspectors to try and en-
force the law. But really there is no law that can force the law. but will do much to mitigate the evil, because of the difficulty in working it. They are growing and going to seed in very rough places, in
the woods, in brush heaps, among logs and out of the way places, where few ever see them; and the
time it would take to effectually attend to them in the very busiest season of the year is another great
difficulty. Still, good farmers do not appear to be very much discouraged; there is still great faith in the future prosperity of Western Canada. The price of land is an evidence of this. If the thistles place. that will drive the thistles. What is wanted is better farming, and t.
thistles will compel it.
I have recently bought a farm of 100 acres for
my son, that has been on the rent for a good many years, and is proverbial for its stock of thistles. There are about 80 acres cleared; 45 were unde
crop last year, and yielded more thistles, Isuppose crop ast year,
than anything else. A good deal of draining has
been done, mostly with lumber, and done so badly been done, mostly with lumber, and done so badiy
that we will require to take the most of it up and that wo will Ase I will have a voice in the manage-
put in tile. Ane year at least, I purpose (if I can
ment for one nent for one year at east, p putplet your readers know how we succeed in tile draining and kill 1 ing acres last fall, which we intend to pot in corn, turnips and potatoes, and so thoroughly work as
to kill the thistles. The other 30 acres we shall summer fallow, growing no grain except corn. A
lasting some big stone
that were sticking fast in the fields. This is not
so difficult a matter as many think. A hole six inches deep, with one cent's worth of blasting pow-
der, will generally be sufficient to break in severa pieces quite a large rock, and render it possible o building purposes. Some are of such a quality ground is not very hard to dig. We had one so large that two shots of powder blew out (although
well packed in a hole 10 inches deep) withou well packed in a hole 10 inches deep) without
breaking the stone. I went to town and got some dynamite, put in a charge, filled the hole wit
sand, and packed it very, lightly (I am told there i sand, and packed it very, lighttly (I am told there is
danger in striking it hard). This did tremendous execution, shattering the rock in all directions. therefore think dynamite preferable for very large
stones, but if they can be managed if broken in stones, but if they can he managed the cheapest.
two or three pieces, powder is much the But by some means farmers should remove those
unsightly boulders from their fields, instead of go. ing ove
ments.
We intend to plant the corn $4 \mathrm{ft}$. . each way, and
cultivate hoth ways; our object is more to kill the oultivate hoth ways; our object is more to kine the
thistles than to raise a crop. The summer fallow will be plowed about the end of May or first of June.
Innerkip, May 8th, 1877.

Muskoka and its Free Grant Lands. Sir,-Through the insertion of my letters on this
sulject in the ADvocste I have received very many enyuiries from persons seeking further infor-
mation aloout this district. Several writing from the County of (ires, particularly, ask if we are
troullell with summer frosts here? from which I sutfer from this drawback; others too, ask if we
have any rock and stone in Muskoka. In reply, I
would say that we are not troubled with summer oosts, but we have also in addition to much good would further state for the in ertain localities. I men and speculators that although there is still $a$ considerable quantity of pine on the Free Grant
Lands there is little more than will eventually be required for local purposes. We therefore wish as ar as possible to discourage the wholesale ship-
nent of the pine from the district, and prefer to welcome amongst us such men as wish to make a home for themselves here, who will be engaged
either in farming or in the prosecation of other ocal enterprise in our midst, in preference to the timber and then seeks ''fresh fields and pasture new" in which to ply his nomadic avocation.
shall at all times be pleased to answer the enqui. ries of persons who may address me, providing they enclose a stamp for reply

SIR,-Would you be kind enough to inform $m$ hrough the ADVOCATE which is the best written
work on Canadian fruit and Canadian fruit culture \&c.; and also if buckwheat sown about the middle
of July would be fit and would do to plow in as green manure after harvest. W. W. W,
[There is no such work published that we are
aware of. E. P. Roe, of Cornwall, on the Hudson Ware of. E. P. Roe, of Cornwall, on the Hudson
Orange county, N. Y., publishes a a useful manual on the culture of small fruits. It is well adapted
for our information. A. M. . publishes the Fruit Recorder, which is also very

Buckwheat will make a growth if sown by the middle of July and there is moisture enough in ing at that season ; it will do for feed or to plow ing at that season; it will do for feed or to plow
under. $I$ should prefer the rape to buckwheat. - ED .]

I have just shipped to Mr. Geo. Henry, of Hali-
ax, N. S., the Shorthorn heifer "Princess Jose phine 4th."
I have received from Wishaw, Scotland, a trio
of Scotch Grey fowls. I thing they are the first hat have been imported into Canada. They are ery much like the Plymouth Rocks, except that hegs are not yellow are smaller and finer, and the

C゚arden, ©rctard and furcsi.

## Flowers-Perennials.

Bright as are the varied hues, and sweet the per-
fumes of many of the annuals of our flower garden, they can never displace some perennials from their place among our favourites. die in one season, we would say a few words. And first from the Field,
England, we reproduce the Carnation and Pink:Since herbaceous plants began to be popular
anain, these fine old favorites have received a good deal more attention. The wonder is that they for they have been, and always will be, favourites. We can remember having to propagate them by
the thousand annually for the beds and borders of 2 large flower garden; but when the bedding mania supervened, the fine stock was
and lost for the time being, along with many othe old and popular subjects. Though the fact is
hardly credible now, the same thing dccurred in hardly credible now, the same thing
many a garden at the time we speak of. The carnation and pink are supposed to be derived from the same species, and hoth are natives
of Great Britain. The species has at least been found growing wild in this country, and the carnation has been cultivated as a garden flower from very early times, being popularly known as the
clove gilly flower. Though grown and treated in a special manner by florists and also by gardeners,
who bestow much care upon their plants, the car noto bestow much care upon their plants, the car thrive and flower for years without much attention.
In rich or wet soil, both the carnation and pink are short-lived; but in dry situations as for ex
ample, on a rockery-they will grow and flower ample, on a rockery-they
profusely for a length of time.
Propagatioy--Layering
adopted, and operations tor the purpose begin about the beginning of August, or a couple of
weeks earlier in cold localities. About that season the plants have done flowering and made their growth, and the layers are made of young shoots. The first and preliminary step is to pre-
pare a compost, which should consist of olear river pare a compost, which should consist o dear rver
gand mixed with leaf-mould and loam together.
This should be spread round and under the ranches of the plants to be layered about four nches thick, and the layers must be pegged down layering the shoots the leaves are removed up to
about the third or fourth joint, and the knife is inserted about the fifth joint, and run up to the next one, cutting the shoot, about half through.
This forms a tongue on the cut side, and which the incision has a little below the joint to which then be bent so as to make the cot gape, and in that position pegged securely into the compost. A
layered carnation shoot may be desoribed as a cutting half removed from the parent plant; the slitting up to a joint is made with a view to facilitate he rooting process without depriving the catting
of thesupport of the parent stem in the meantime. In this way the shoots of the old plant are lay.
ered all around, and the hillock formed by the com. post is afterwards packed between the shoots
with smooth, round stones, each about three lor
our pounds weight, in order to keep the birds four pounds weight, in order to keep the birds
from scraping the compost away, which they are sure to do if they can reach it, in hunting for
worms, \&c.; water-worn stones from the bed of a river are best for the purpose. In a month or five watered regularly during dry weather, they will
be rooted, and thoy whould then be lifted and pot ted, or planted out in the borders where they are
to remain. In most gardens where the stock is propagated annually in this way, the plants are the pots being plunged in ashes to protect them
from frost; and in spring they are planted out, the old plants being done away with. Whether potted or planted out in beds after rooting, the best free from wireworms, and it may be mixed with leat mould and sand, but they will thrive in com. frames, it is necessary to give the plants plenty of
ir on all fayourble does not thrive in a a close atmosphere. Anythin like fire heat must of cource be avoided; and if frost should come se
used for protection.
General Culuvre,-During the summer the they must be guarded against rabbits and field are most destruetive during ; bint these vermin flower stems grow, they should be supported singly withsmall neat stakes, or two or three"stakes may
be put round each clump, and the matting run be put round each clump, and the matting run
round the whole at once, to keep them from falling upon the ground. Some cultivators go to great
trouble in disbudding trimming, and otherwise manipulating the flowers ; but here it is only dis cussed to give the reader an idea of how to grow ne carnation as a border flower, and it is not Of other perennials, E. E. R., in the Western One of the best perennials is phlox. It is perfectly harỉy, increases in size every year, if food of bloom, and can be had in all shades of red, in the most brilliant tints, and these, when grown bed as any one can possibly desire A asod way produce a fine effect with this plant is to make targe oval bed, not in front of the house, for it is
thaise the aller, rowing dark varieties. -The catalogues will indicate the height of each variety. Then shade the ber with the lighter colors, edging it with
white. Set the plants about eighteen inches apart, and in August it will become a mass of loom. 1know of no other plant that does so The herbaceous spireas should be grown in
lumps, and I prefer to keep them by themselves. 1 grow two kinds, the white and pink varieties, and there is nothing in the garden so nust the airy,
(uuts as these flowers. They have just yuets as these flowers. They ave of flowers for
feathery grace which makes a vase of
the parlor so charming, and they have the merit of
land with natural drainage.
To continue our gen-
eral history:-It was by no means easy to obtain
combining well with almost all other
are very hardy, and increase rapidly
The old-fashioned hollyhock is a showy and rather coarse flower, $I$ admit, but I $I$ am always pleased to see it. It makes me think of an of mine who knows he lacks refinement and cultivation, but means to do the best he can, and does it, and is therefore entitled to high of our modern flowers, is far prefe produced a decidedly pleasing effect with it by planting it in thick clumps, in rich soil. This grown to the height of eight to ten feet, in
dense masses, has been very highly praised by dense masses, has
some of my fastidious floral friends, who had been
noses at it. The half inclined to turn up their noses at it. The double and dwarf varieties are beautiful in masses,
or as single specimens for the lawn, but must be or as single specimens for the lawn, but must
kept well staked, or they are likely to be blown over by the winds.
Funk, or day lily, as it is more generally known, freely, and its fragrance recommends it to every freely, It will live through our winters without
body. any covering, but I find that it does mich in the fall The perennial larkspur is very fine for late
flowering. I know of no other herbaceous plant of so rich a blue as this,
Its long spikesare some Its long spikesare some-
thing to light up any garden with brilliancy,
and very fine effects can and very fine effects can be produced by judi
ciousisly planting it with other tall growing plants. A bed of cannas interspersed with lark-
spur, was greatly ad spur, was greatly ad.
mired in

The Europeall Larch-Its Value and Durability. In the Quarterly Jour-
al of $A$ griculture, there is an "account of the farch plantations on the bunkeld, executed liy the late, John, Duke of thole. Trom which elerived:

Previous to the accesbuke John, in 1774, tw Dukes lanted larches. In 1738 Duke James planted, a lair Athole and upo the lawn at Dunkell Tay, on a rich allu
vial sand with open channetty hubsoif,'sixtecn larch plants, the pawas sown on the same property. One of these original Blair Athole larches furmhe height of the for the great planter's coffin. The height of the five Dukeld lawn trees were also felled, and two of these which were
cut down in 1809 containecl, at the age of 71 years, 147 cubic feet and 168 cubie fect respectively; and pany of shipbuilders for 3 s . ver foot, or $£ 25$ s. for
pane
the tree Baltic timber at that the tree. Baltic timber at that time wasch-s ing at war prices. The two ther origial dral of Dunkeld, and not far from a fine group of
their own offspring. They are still sound timber their own offspring. They are still sound timber
at 138 years old, though their period of growth had been reached some years since. The largest tree measures 98 reet 10 inches in height, and 14 . feet 6 inches meirct in shape, tapering gradually and regularly, until it ceases to be measurablio timber at about 20 feet from the tol 1 . It is sinil to panion trees are eleven yards apart, and their branches meet and interlace without injury. From this history of two at about one hundred years, we learn mugh in reference to the , yuantity
of timber which may be produeed ou goud, light


Fringed Dragon and Flying Dragon In this number we call attention to our Entomological Society and its works. We give you the accompanying illustration from the Scienmian
American. The appearance of these gentlemen
 insects and pests with which we are troubled.
These animals inhalit the Western Hemisphere, These animals inhal
and are numerous.
The flying dragon is the most agile and daring of the winged lizards ; and it can leap a distance o thirty paces, its so-called filgh foing she color that of a tyying squirrel or lyis
of this reptile is variable, but is usually as follows. The upper surface is gray, with a tinge of olive, and daubed or mottled with brown. Several stripings, grayish white are sometimed with an angular net work of dark blackish brown. When the dragon is at rest or even traversing the pranches of trees
the parachutes lie in folds along the sides; but the parachutes he in leap from one bough to another, it launches into the air an
with a slight tluttering of the wings.
It has been commoniy suppensel that these animythologies; but the probability is that the real chac to the origin of the monster
the sisantie saurians of ancient times.

The Way to Cut Flowers. The florists employ a pair of scissors, with which the stems are severed. But a writer in the Amexican Garden says that the flowers should never be pulled off-nor should the stems be severe best scissors,
time for cutting flowers is immediately after sundown, unless to preserve them from a storm, which would otherwise destroy or prevent their being cut
in the evening. On cloudy days the time of cutting in the evening. On cloud difference. The explanais a matter of much ess the proper time for cut-
tion of these rules, as to the
ting is found in the state of the sap at different ting, is found in the state of the sap at the earliest
times of the day and night. From the times of the day and night. From the eariest ing upon the roots, and the sap is flowing freely
After that time the leaves arenearly dormant until After that time the leaves are nearly dormant until
moring. The plant is then resting, is asleep. A morning. The plant is then resting, is asleep. A
flower cut in the sunshine will wilt at once, and if not put into water, will quickly perish, whereas if cut at sunset, it will appear to change for a long a cool even if not put in water ; yet, in a close, ho room it will fade in an hour. The usual manner as it may seem, the true]way (for the greater part as it may seem, the tr remove them without a stem. ${ }^{\text {of }}$ Roses should be cut with a long stem-the longer the better, provided
other buds are not de stroyed. The carnation
and all plants that bear their flowers in clusters should be removed with
out stems. The heli trope shuuld be allowed a very short stem, and
the verbena should only
be cut as far down as be cut as far
the first leaf. wire or a match-stick
will serve for a stem if 1 t is desired to make of
these stemless flowers a these stemless they are to
bouquet. If the bouquet.
be placed in shallow dishes-the best way to
display them-thestems display them-thestems
are of no consequence. are not collect flowers in large bundles, or tie
them together, as these them together, as these
processes also hasten de-
cay.--New YorkHerald.

Poison Ivy. Strange alvice some changes in regard to poisonous plants, and poisonous plats,
especially alout 'poison
ivy". If what is called poison ivy (which, by the way, is not an ivy
but a species of sumac was the only plant grow
ing wild likely to poison
a person by contact, we might excuse some of the mistakes made by writers upon the suy is the most harmless of the two virulent species
found in all our moist woods and low grounds. found in all our moist woods and low ground
Even so good an authority as Dr. James C. White Even so good an authority as Dr. James
writes to a Boston medical journal, aidvisi all "who are unacquainted with the poisons of ivy to avoid any vine or bush growing yy rocks, fenged
and woodsides, and having glossy leaves arrangel in threes." Now, this climbing or trailing species of sumac, or poison ivy, is the Rhus toxicotendron, and ninety persons
handle it with impunity.
But, growing in similar localities, and frequent:
ly side ly side by side with it, there is another species
known as poison elder. Yoison sumac, or poison known as poison, is botanically the Rhue vencnata, which dog-woon, is botanicaly the
few persons can hande without being poisoned.
This virulent species is not, however " $a$ vine This virulent species is not, however, "a vine
having three leaves," but a shrub growing ten to hwenty feet high, with long, pinnate leaves of soven to thirteen gvate, entire leaflets. Pinnath
leaves are thosé which have small leatlets on cach leaves are those wh
oide of the mid-rib
Now, when any of our readers are searching for warn the the fruits, in moist grounds, we would are at all susceptible to sumac poison. - Rural
Aej. Aer' Yorker,
 custs in New York State. - The Troy fimes culivaion. A the bear for the re- the time of bearing, but the fruit is always of a two-rowed barley he raised 42, 3-8 bushels, against appearance of locusts is confirmed by a farmer re-
siding in North Greenbush, who says they have siding in North Greenbush, whe says they have
already appeared in large numbers in that losality. already appeared in large numbers in that oonality.
They come ont of the ground in the shape of large
nold of the soin cultivation, and until the roots get
hot grubs, but soon after their wings are developed
and they take to flight. They are not destructive and they take to flight. They are not destructive
to crops, but feed upon trees and shrubbery, in to crops, but feed upon trees and shr the foliage
some instances completely removing the
from a large tract of country. Although their appearance has only been report found in this section. Vhen full grown they are about an inch and a half in length, and they make a loud humming
noise while flying through the air. A singularity noise while flying through the air earth is, that
regarding therr emergence from the eare egaraing come out backwards. They are called the
they all
"seventeen-year locusts" from the fact that they "seventeen-year locusts" from the fact that they were numcross, 1843 . In 1826 they were so
appearance since
pleantiful that the trees were covered with them and they could
little tronble.
 GBa

Apple TreEs. - The fol-
lowing curious note on the subject of grafting the pear on old apple trees has been sent by a Mr
Tipton, of Burlington, Kansas, to the Horticullur Tipton, of Burlington, Kansas, to the Horticulur
ist (New York):- Pears grafted or budded on bear ing apple trees is the quickest, surest and cheap est way I ever grew pears. I never picked bette
pears from standards, or any other under-growt pears from standarras, or any other under-growt
for the pear, than I have picked from old appl trees topped and ludded or grafted with pears and they always bore early and profusely. In large apple orcharis are somet inase practiced changing
scraggy trees; on such,
to pears. I never failed in two years to get a good scraggy tress, on failed in two years to get a good
to pears. I never in some trese the pears would die out in
crop. In s. crop. In some trees the pears would die out in
six years, while others were heallhy to my knowl
edre for eirhteen years, and still doing well the edge for eighteen years, and still doing well the
last time I saw them, in 1865 , in Franklin County, last time
Opiq,

Cultivate the Young Trees
oung orchards or trees of any particular val
shoung orchards or be as carefully cultivated as the growing
crypis. Especially is grass detrimental to young
orchards.

## Our Floral Friend

$\qquad$ ariety. We give you the alove cut, introduced
vers. Messrs. Hurst thon, of England. Very few
of you will have the pleasure of seeing this fine Petunia for some years, as the price of the seels
in
England prevents them from being dispersed chaeply in our country, being $37 \frac{1}{2}$ cts. per packet. We well know the new Petunias that have been recently introduced are now much admired by all
who have seen them. Messrs. Hurst \& Son's eatalogue states that this flower rivals in doubleness the Double Poppy, emulating in color the richness
and delicacy of the tints of the finest Carnations.

## Foreign Notes.

A New Departure.-Immense quantitics of potato
York.

At a meeting of the Western New York Farm-

The Turkish paper money, called caime, has de-
reciated more than oone hundred per cent. Bread costs more than it did during the Crimean war.
A law is likely to be passed by the Massachusetts Legislature, establishing a commission of
vomen to inspect prisons and hospitals in that State, in which women are inmates.
A large lion was killed in the mountains between Santa Cruz and Santa Clara, Cal., recently by two youst men named Tompkins and Reed. The ranch, and killed three. The young men chased ranch, and killed three. The young men chase
him all night with their dogs and finally despatch d him. He was treed several times during th解
The Duke of Sutherland in Scotland, and Dr.
Hamn in Austria, have employed dynamite in clearing land, and for dig ging much deeper than any er of dynamite cartridge
re buried at regular dis ances in the soil, and ex

A grapevine on $\mathbf{W}$. Phelps' premises, Stockton Cal., measures at a disground, twenty-six inches in circumferenee.
An island was put up at
auction in Landon with no auction in London with no
bidders. It was Herm, one of the Channelt
inlands, three miles from
Guernsey and Sark, comGuerisey and Sark, com-
prising 400 acres, with a good harbor, granite quar-
ries, excellent fikhing, an
old. fashioned residence, old fashioned residen
with a chapel and n
villa, and no taxes A French horticultural society recommends water
ing geraniums and pelar ing geraniums a and pelara solution of 150 grs. glue
in two gallons of water. Peter Henderson, au-
thor of Gardening for Profit
and another work on floriculture, who is withal culcure, who is withal
practical, reliable man
claims the claims that the reason why
the market gardeners, who the market gardeners, who
cultivate tracts on the
shores of Communipaw hares of Communip able to grow oab
Bages year after yyear
be land is that he same land, is that
was used for ages by the Indians of New Jersey clan - baking ground, filling the soil to the depth oi-
foot or more with the shells of the bia foot or more with the shells of the
valves. Club-footed insects, so injurious to cabbages, find the lime in these highly calcarecomfort or sabsistence. Shells contain some pho phoric crops.
Grain Trade.-The struggle between the Weland Canal and the Erie Canal for the control o during the season of depression by the rivalry of the railways, which have carried freights at lower rates than ever before. The whole wheat crop oi
the United States is estimated at $247,482,160$ bushels, and the corn crop amounts to $1,062,585$, 625 bushels. Of this, a very large portion seeks an outlet through the lake cities, Chicago, Milwaukee,
Duluth, Toledo, Detroit and Cleveland. Milwanr kee as a rule ships more wheat than Chicago, and When the grain comes eastward Montreal handles grain and thours ever taken The largest quantity of in a single year equalled $35,000,000$ bushels.

## Adgriatulute.

## ndian Carn Culture

Indian corn will grow on any kind of soil, but
if the farmer wishes a good crop he must cultivate if the farmer wishes a good crop he must cultivate
good land. No man has ever yet become rich raising corn on poor land; and all who have had
any experience in the business well know that poor any experience in
land requires as much, if not more, labor to grow a
and crop of corn than rich land ; hence the advantage of good ground. The best soils for its growth are
those of a deep, rich, warm, mellow and porous
the air, heat and moisture. nature, permeable to the air, heat and morn the extend freely, both in depth and sideways, a thing requisite
for large and fine crops. Our river bottoms, and for large and fine crops. Our wher possess these
sandy and loamy grounds which pore sandy and in the highest degree, are everywhere
properties in regarded as the
indeed a very hardy plant, and will grow almost indeed a very does not yield profitable crops to
anywhere, but
the farmer unless planted in good land, and no thywhere,
thar farmer unless planted in good land, and no
farmer need expect to raise much corn unless he farmer need expect to rais.
has good, warm, rich soil.
Corn planted upon stiff clays, or hard, gravelly ground, generally proves poor, or a total failure, from the simple fact that suchir, the porousness and
and tough as to exclude the air, warmth necessary for its growth. The preparation of the ground for planting the crop is a very important item, and we are of the opinion that more
depends on the condition of the ground when ready to plant than upon the after-culture of the
growing crop. Late fall or winter plowing, especigrowing crop. Late fall or winter plo
ally if the ground is in grass or clove
advantages commendable to farmers.
If grass land be plowed late in anutumn or early in the winter, the grass or clover turned down would would under spring plowing that it enriches the soil, and makes it mellow, and also makes the crop the ensuing spring more easily cultivated. Winter plowing also exposes the cut-worm, wire-worm heat-worm in their embryo state
the frosts and chilly blasts of the winter months, destroying them. Early spring plowing is also
very useful in an overloose or too porous soil, as the very useful in an oren pasck and settle the ground prior to planting, thus putting the ground in a better condition for the
it is not necessary to plow stubble or fallow ground but once, and that after the soil becomes crop. The selcetion of good seed is a very important item, and the best way to do this is to go into
a field of ripe corn and choose the largest and best cars from the stalks that bear the greatest number
of well developed ears, and then plant only that which grows in the middle or central portion of the
col. It would be well for farmers to change their seed every few years, as corn, like all other cereal yrains, deteriorates if grown on the same soin asc-
from the same sed for a number of years in
In procuring new seed, it is arvisable for cession. In procuring new seed, it is alvisable for
farmers to get that which is grown in the northern fariners to get that which is grown in the northern
climes, as it ripens carly and acyurires increased vigor when grown in a warmer and more congenial climate, while seed brought from more southern
latitudes will not only ripen later, lout renuire many successive plantings hefore it will yielh in
meolder region. The time of planting corn varies considerable from the extrenc Northern States the
those bordering ui)n the Gulf of Mexico. In the those bordering Midule States the time of pianting is
Northern and Mill from the middle of April to the first of June, while in the Southern States the time of planting ranges
from the first of February to the middle of April. The depth which corn should be planted varies from two to six inches, according to the nature of
the soil and the time it is planted. If planted as late plantel corn, especially if the weather is lry and hot, will not sprout if put in too shallow.
The width which corn should le plantecl is from three to four fect each way, aur the furrows should
rum north and south, in order that each row may be fully exposed to the slun during the day. About three plants to the hall, in goon ars wrow grow to alvantage ; two on por are sutficient, and then the rows must not he nearer than four feet apart. After it gets up, the whole
art of raising goold corn -provideor it is a facorable shades the ground, and the blossoms aypear. Afte
through it and cut out the few weeds that may spring up while the crop, is maturing. To cultivate
corn rightly, harrows, plows, hoes, cultivators
must and the nature of the season may require. It should be worked freely when the ground is dry, but more especiauires to be kept very loose so as to absorb and retain the dews of the night and the moisture of the air more readily-an ests,
The corn requires more attention from th The corn crop requires more attention from the
time it gets up until it is tasseled than any other crop grown in the Norrthern and Middle States, and it so happens that this work can be mostly done at
times when but little other work demands the at times when but little other Gork should be wel manured before it is broken, and after the crop is planted it would be well to put about a shovelful
or even less, of rich compost, composed of wood ashes, lime, salt, plaster, \&c., on each hill. Fresh manuring but if cultivated year after year, fertilizers must be resorted to, or its strength will be poor land is scarcely known, manuring land is of hauling the manure out on the farm, a stable is sometimes moved ; or, if the farmer does not lik the trouble of tearing down and rebuilding his serhaps, and dumps it over the bank to be swep away by high waters. But, apart from a country which needs no artificial means to make it produc no man need have any fears of applying manur
Corn is a very gross and rapid eater and grower Corn is a very gross and rapid eater and rich enough, too much praise can not be give to artificial fertilizers.
To those whose ground is rich enough we would To those whose now ; it will be no disalvantage say, manure anyhow; Without protracting this article to a greater length, we will not go beyond the prepara-
tion of the ground for planting, and the cultivation tion of the ground for planting, and the cativation
of the crop, which has been briefly described herein of the crop, why submit the subject to the calm con-
but will kindly
sideration of all who may be in any way interested sideration of all who may be in any way interested
in the cultivation of so useful and valuable a grain. in the cultivatio
$-O$ Fio ${ }^{\text {Farmer }}$

## Muck on Sandy Soils

The value of muck when applied to heary soils
is well known, but it is little known that to the is werlit sandy soil an additional application of it will prove very serviceable and the expense of the carting prove a good investment. ness of this will be apparent from a moment's conideration of the subject. We see at once tlay to give it some solidity, and to counteract its rapid
impoverishment from the fertilizing element impoverishment from the fertilizing elements
passing at once through the too porous soil. Some passing at once thely porous that any attempt to fertilize them by tillage would be like the child's cil
deavor a silve with water. Muck, though i deavor to fill a sieve with water. Muck, though
is inferior to clay for a permanent improvement such soil, may be applied with very good effect. As a vegetable matter it is more retentive of moist can be, and a few inches deep appliel to such soil, though not causing a permanent improvement for
it for culture, will enalle it to give a remunerative crop of yellow or white turnips, or of potatoes
and by sowing white clover and snitalle gras seeds it may be made a good sheep pasture. riter in the Countr" Gentleman says
Much has been said about underdraining, ani
its value is fully established. But no underdrain ing is so good as that done by nature, where sho has supplied a deep, porous subsoil, for then every foot of ground is sure of complete drainage.
fortumately, where nature has provided this sub. soil she has usually placed on the surface a sandy or gravelly soil, which is generally considered of
little value, and its elements of fertility are constantly washing out, and it will not retain, mainures,
therefore, they are much neglected, while the therefore, they are much neglected,
heavier soil has been expensively undertrained or cultivated under the curse of stagnant water
Knowing the great value of thorough underdraining, it appeared to me that the leachy propensity
if the porons soils could be destroyed by the ap plication of some retaining sulsstance, and thu
olitain complete drainage at less expense and have ontain complete dranage With this ilca, alhout
an easier soil to cultivat. With
onc-third of an acre of light sandy soil, so light as onc-thirl of an acre of light sanly soil, so light a
to le considered waste laud, was mucked fron
last. Last year it bore a good crop of potatoes
with common manuring. This year it is bearing with common manuring. This year it is bearing
the heaviest and best corn on the farm, with no more manure than the other fields. This proves,
to my satisfaction, that for many crops it is fetter to my satisfaction, that for many crops it is better
to improve the surface soil of natural drained land to improve the surface soil of natural drained land
than to knock the bottom out of a watersoaked clay soil, which never can be made as warm and
dry in the spring, or so easy to cultivate, as sandy dry in the spring, or so easy to cultivate, as sandy
soil well dressed with a retaining substance, such soil well dressed with a retaining substance,

Farming in England.
Mr. Mechi gives a gloomy account of the pres-
t condition of the English farmer. The last two $r$ three seasons, he tells us, have been not merely nsatisfactory, but positively disastrous. The
sops have been baut, the prices obtainable for what grain it has been possible to get into the ranary have been low, and there has been a great
deal of disease among cattle and sheep.; The result is that farms are "going a-begging" for wan of tenants, and that landlords have lon obliged $t$ onsiderably reduce the rents of all but the ver
best class of holdings. It may here be observed est class or holdings. Thing may exists in some of of th most famous of the agricultural districts of Scot
and. Even in the Lothiaus an unusual number of farms have been changing hands of late, the tenants being quite unable to make up a profitable balance sheet. Landlords had for years been in
creasing their rents, and it would scarcely be just creasing their rents, and it woune them for adopting that policy, for they could always be sure of having a crowd of competitors for any farm that might fall vacant. This
inflation of rents has, of course, contributed to the depression of which so much is heard on both sides of the Tweed; and in Scotland an in England the owners of the soil are recognizing the neccssity
relieving the pressure upon occupiers so far as relieving the pressure upon occupies to maintain
rent is concerned. Mr. Mechi seems seste for that bad farming is to some extent responsible for the depressed state of agriculture. He could, where the capital employed is from three to five times as great as the average run of hordings, and he high level of places like Tiptree " enough and more than level of places for our population could be produced." He is probahly right; but, as he himself suggests,
capital will eye agriculture with suspicion and discapital will eye agriculture with suspicion and the
trust until landlords come to see that it is to their trust until ancourage investments in the soil by " iliberal and secure covenants drawn up on $t$

## Hungarian Grass

The continued inyuiry as to the proper manner
nd time to sow this crop shows that it is still in nd time to sow this crop shows that it is still in
favor, and increasing in area sown. One of the vor, and increasing in area sown. One of the ated, is not to sow it too soon; not until the
niddle of May, or until settled warm weather and diddle of May, or until settled warm weather and danger of trost is over. It is very tender, and tually; it is of very slow growth after it firs
tarts, and if not encouraged to a more rapid rowth by a warm sun, will fail to maintain itself in the struggle with weeds, and the crop will thu he much injured if not entirely lost. In selecting to the time of fiarvesting, which may be in seventy cays growth ; if sown too soon after corn plantin it will need cutting at a time when the oat crop needs our of May to suit, both as to planting and
midllee of
harvest. Some have succeeded on a stiff sod, but our best results have always been on a well plowed
well manured corn ficld of the previous year. No well manured corn field of the previous year.
crop will better pay for a carcful preparation of the ground, and no one so duickly responds to the proper kind of manure. To be effecient the manure
must be quick and prompt in its action so as to force a rapid growth before dry weather comes on.
Guano and other ammoniacal manures will on most soils produce the best results, hut in many cascs an ordinary superphosphate has done well. Much of course depends upon the amount of rain to dis-
solve the mane plants. We find it safest to cover the seed with a light mirow, but have had good crops by simply
rolling after sowing. It should be cut when the earlicr. heads show signs of the formation of sed
lyy turning dim. A few days at this time will dely turning dim. A few days at this time will de-
tract much from the valuo of the crop, and hence
the importance of hav ving no other crop to interfere

The sowing of mangel wurzel has been com-
pleted for the season; however, the following article on the subject on good anthority is so replete with valuable suggestions, not only for the preparation of the soil and its sowing, but after, for its cultivation and storing, that we reprint it for the benefit of our readers. We have in our own experience often found great profit from lessons in agriculture read and stored
minds to be practised when needed. Seed-Six to eight pounds per acre. A late an early sown-and thus a larger number of an early sown-and thus a larger number of pensate for the absence of heavier roots, Sorts to
sow-This depends entirely on the soil, and other sow-This depends entirely on the soil, and oxher
conditions ; and disappointment is often experienced through sowing sorts unsuited to the soil. In good, deep, rich clays and loams our Mammoth
Long Red will produce the heaviest crop. On
shallow soils our Intermediate and Golden Tankshallow soils our Intermediate and Golden Tank-
ard will succeed best. Our Berkshire Prize, being of more robust and vigorous growth than other
Globes, will do well on all soils. Time of Sowing The Mangel is an annual, yet it likes its year to be made as long as possible. In a kind spring,
those generally succeed best who sow earliest. Some bulbs, it is true, may run to seed; but the increased weight of the remainder more than
counterbalances this; and if pulled when the seed stalk is just shooting, pigs do well upon them. The middle of April generally suits, unless in ele vated districts where the climate is late and spring
frosts prevail. Should the month of April be un frosts prevail. Should the month of April be untill the first week of May before sowing-for Man gel seed will not germinate in are to the but the we Apply as much of the rich ammoniacal dressing, such as farm-yard manure, as you please also 2 to 4 cwt. of Superphosphate, and
salt per ace t. of salt per acre, which shour
in close contact with the seed or it will destroy its germinating powers. Mangel fattens on liquid manure in any form, and guano, 1 cwt. per acre at
sowing time and $a$ second and third cwt. at the first and second horse-hoeings, will be found to pay. Cultivation : Wheat is generally the preceding ${ }_{30}$ cart-loads per acre, previously' drawn, and slightly fermented in a heap, is spread, and the land ploughed before Christmas, if possible, but, at any rate, sufficiently early to insure a frost for enough to form a good bed of free mould. We strongly recommend steam-ploughing where pos-
sible. The heaviest crops ever known were obsible. The heaviest crops evem-ploughing to the
tained, in a neasure, by steam-p depth of 18 inches, and the effect on succeeding
crops is most beneficial. So soon in April as the crops is most beneficial. So soon in April as the
weather permits, the land is well harrowed as eather permits, the land is well harrowed as
deep as it will work freely, By this plan the
doisture is retained, and thereby the seed induced moisture is retained, and thereby the seed induced on vegetate. By deeper cultivation and evapora-
tion, the soil is often so dry that the germination of the seed is dependent on rain. Many a plant of Mangel has been lost in a dry spring by giving the
land what is well described as "the orthodox and what is well described as the orthodo
amount of spring tillage," instead of permitting it to remain in a state which a farmer would call
"stale furrow." The sech is drilled on the Hlat "stale furrow." The sect is drilled not too deep.
at 28 inches from row to row, and
The plants should be set out 15 to 20 inches in the rows, according to sorts; the Intermediate and
(iolden Tankard,
from their peculiar shape, may Ciolden Tankard, from their peculiar shape, may
be allowed to stand closer than other varieties. As soon as the thistles appear, dig them to the depth of the plough, and the after cultivation of
the crop is the usnal one of repeated hoeings by hand and horse labor. Storing: Late in October or the beginning of November is the best time for harvesting this crop, and this may be most economi-
cally done by contract. Men pulling roots, women should be able to complete the process at from $6 s$ set up two rows of hurdles about 9 feet apart, and tilt the mangels out of the carts into them until up lev topped up with straw, the hurdles inside being slighty lined with the same. Another such
heap may be made alongside, alout two or three
feet feet away; and if the eaves of the rongh thatch
meet, protection and ventilation will be equally
mear

## Tomato Culture.

Not long since I was reading an article on this
subject in a very noted work on ""garden culture," subject in a yely noted work on "garden culture,"
which says, ""not to have the ground rich," for, it says, "the plant will vine too much and not fruit."
My experience has been the reverse. My plan o cyltivation is as follows :-I plow or spade my
ground deep - pulverize it thoroughly, first, ground deep-pulverize it thoroughy, first,
having it very rich; lay off four feet each way,
and and with a shovel throw out the earth to the
depth of one foot which fill with a compost of hen manure, unleached ashes and surface soil, putting about an inch of soil on top; procure stakes four
feet long and drive down near the edge of the hole; plant in cente
one foot in diameter.
As the plants grow, tie them to the stak
As the plants grow, tie them to the stakes.
Now the main thing is to stir the soil and pinch out all laterals or suckers, like tobacco raisers do
tobacco. When the plants get to the top of the tobacco. When the plants get to the top of the
stakes, pinch out the tops-be sure and keep them well tied to stakes.
If those who are in the habit of reserving their poor soil for tomatoss will once pursue this plan
they will not only be convinced that it is a good one, but will never after plant tomatoes on poor soil.-Cor. Fruit Recorder.

Rye for Pasture.-At the last meeting of the Elmira (N. Y.) Farmer's Club, the following, from a corresponn
Secretary:
Farmers
Farmers who are in want of first-class pasture at east expense, for this season, should prepare a lot and they will soon have a pasture for sheep, calvse, poultry, in fact any kind of stock, and for young
lambsitc can not be excelled. Heavy stock will tralambs it can not be excelled. Heavy stock wit put on
mple it into the ground, to some extent, if early in the season, but later they can be kept on it at a profit. Winter rye sown in the sut will stool
not head out till the second year, ber out so as to cover the ground, producing a luxuriant mass of feed that will pay every expersen
trial. It can be cut for soiling purposes the seon
year year for grown-up stock, or it can be raised fo
pasture, as stated before, or it can be-allowed to attain its growth and mature a acrop to harvest. It
will also stand drouth very well, and enrich th will also stand drouth very well, and enrich the
land. From one and a half to two bushels per acre
should be sown, according to the wealth of the land.
Is Ontario Flour Deterlorating in Quality

- Mr. Morrison, shipowner, of Halifax, said thater were an import duty imposed on coal, Nova Scotia would buy more largely than ever of the oats, flou and pork of Canada, and eventually fall into the hands of Canada. The Maritime Province alone would buy 800,000 barrels of flour, besides cheese buter, ande, however, complained that the Nov Scotians find that the Ontario flour is deteriorating
in in quality, the grade extra.
than No. 1 was formerly.
-The Royal Agricultural Suciety of England this year, it will, for the first time, admit foreign productions to competition for its valuable prizes.
It has been led to extend this privilege on account of the important and intimate business relations between Liverpool and the United States and Canada, and exhibitors from both countries will July 11, and close July 16 .

Maine has taken steps to encourage the manuhave been authorized to contract with any respon sible party, or company, to pay one cent per pound
bounty provided not more than $\$ 7,000$ shall be paid in any one year. In other words, the state
to pay $\$ 70,000$ in ten years on beet sugar.

No Chinese farmer ever sows a seed of grain be with water and has begun to germinate ; and experience has taught
operation not only tends to promote the growth and operation not only tends to promote the growth an
development of the plant, but also to, protect th
seed from the insects hidden within the ground.

Prize Farms of the Royal Agricultural Society.
An intimate knowledge of the means whereby thers ourselves engaged is most beneficial, and a decription, however brief, of the mode of cultivaion pursued by some of the most successful farmrs must be of interest to all who are engaged in
he cultivation of the soil. Annexed is a brief he cultivation of the soil. Annexed is a brief
eport of a visit to two of the prize farms of the Royal Agricultural Society :
A number of members of the Midland Farmers Club recently enjoyed a pleasant trip to Clopton
and Milcote for the purpose of inspecting two of and Milcote for the purpose of inspecting two o
the three farms to which prizes were awarded in onnection with the visit of the Royal Agricultural
ociecy to this town. At Lower Clopton they met with a hospitable reception from Mr. Henry Stilgoe, to whom the first prize of $£ 100$ was awarded,
The farm is managed on the six-course systemThe farm is managed on the six-course system-
namely, roots, barley or oats, seeds, wheat, beans wheat-with the exception of about 20 acres of seeds, which remain down for two years. The
crops then growing were :--Wheat, 93 acres ; bar crops then growing were:--
ley, 40 acres ; oats, 60 acres ( 32 acres mown and 28 grazed); second seeds, 20 acres; mangolds, 12 acres; swedes, 31 acres; and lucerne, 8 acres;
which, together with 150 acres of pasture (124 acres for grazing, and 26 for mowing), make a cows; 20 calves being reared yearly eight dairy at trom two to three years old, and about thirty-
five to forty-seven beasts fed off annually, according to the season. Eight years ago a Longhorn
bull was used for the sake of the cross ; but the last five bulls bought for service have been pedigree animals of the Walnut and Spencer tribes. breeding purposes on account of the land not being annually. Four sows of the large white breed are now kept, and their produce sold as stores. Of
working horses there are only nine, steam cultivation by means of hired machinery being extensively Mr. Stilgoe has hey entered upon the farm in 1865 anks, and filled in ditches and old marl pits at his wn expense. He has likewise drained about 170
cres, the landlord providing the pipes. Fourteen en, with one strong lad as under carter, are
regularly employed with three boys and six woeguary employed with three boys and six wo
men when the weather will permit. When Mr. Stilgoe came to Clopton there was no water except
what was to be had from pits; but in the first year of his tenancy water was laid on from Margaret's Well, with iron pipes, at a cost of $£ 97$, of
which landlord and tenant paid efual proportions A diary of the men's work and of the weather has been kept during the whole of the time that Mr. pany examined the homesteal, the stock, and the rowing crops with evident interest ; but it is carcely necessary for us to observe that they were the propriety of the award in this case, as they hacanot before them all the data on which it was the cultivation of a tenacious, heavy soil, like that in question, the produce obtained from it by skill-
ful management, and the financial results. The land appeared to be clean; the grain crops-wheat more especially-promising ; the roots, considering
the unfavorable season, fair; the stock in thriving condition, the sheep being a very even lot; and the fences in good order. We may add that one
of Fowler's steam cultivators, drawn by two engines of 12 -horse power each, was in active opera-
tion in grubbing up a twelve acre field of two years' seeds, the soil here being a gravelly clay. and inspected the farm of Mr. J. C. Adkins, to which an extra prize of $£ 25$ was awarded on the recommendation of the judges. It comprises 383
acres of light land, 280 of which are arable, 51 acres of light land,
pasture, and 52 mealow. It is cultivated on the past-course system, the course of cropping being
roots, barley, sesls, wheat, beans, wheat. The crops of the present year are wheat, 89 a 3r 28p;
beans
 acres; and mangels, 28 s a 10 1 15 p . Twelve horses
are kept the are kept, together with 20 dairy cows, the produce
of which is sold off at three years old ; 230 lambs, 149 brecding ewes, 42 cull ewees, 50 theaves, and 9 crops remarkally good ; the whent order, and the $\left\lvert\, \begin{aligned} & \text { crops remark } \\ & \text { tionally fine. }\end{aligned}\right.$

## Buckwheat-Its Cultivation.

 Buckwheat may be considered a fallow wheat. From the late season in which it is sown there is full time to give the land the benefit of a good fallowing, and the excuse of "want of thly destroyed be pleaded if weeds be not ll Canadians know how -killed root and seed. to the pleasures of the wellmuch buckwheat breakfast table; but even if sown, no for use as a breadstuff, but for the improvement of the soil by plowing it as green manure, its value is very great. It is true its fertilizing properties are not equal to those of clover, but it has the advantage that it will produce a heavy crop on land where clover would be a certain fail are, and grow, as it often is, merely to clean and fertilize for another crop, it has its peculiar profit.Buckwheat must not be sown too early, or the heat when it would be in and there would be numits perfect fructification, and there would be better erous blasted kernels. that bloom. While care is taken to avoid this danger of sowing too early, it is needful at the same time to guard against the risks attendant on sowing orops so late that our Canadian early frost may not come on them before they are matured. This difficulty of seizing just the proper time we have con tinual experience of in our farming and gardening here. Some seasons, buckwheat sown in July any day before the 16th, may produce an abundant and well ripened crop, but this is only in some seasons. However, taking all things
into account, it is worth the risk; even if the into account, it is worth the risk; even if the
frost catch it unripe, why, at the worst, it can be flowed under to enrich the ground ; and for this plowed under to enrich the groupese of seed and purpose
It is nocessary, in order to secure a good crop, that the land be well tilled. The finer the seed-bed the earlier and surer the germination will be, and
no little of the productiveness of a crop depends no the of the productiveness of a crop depend on the early start and vigor of the young plank. Besides, an additional plowing or cuung plant, but it may destroy weeds that might have survived for this is a great object of a the former plowing, and time, June 1st to loth.

The Hessian Fly.
From repports of the Entomological Society we glean some vary valuable information concerning
\#his pest, the Hessian Fly. This insect is said to
The be of Europeaun origin, and to have been brought to America in straw used for packing, in the year
1776 . In Long Island, N. Y., it was first observed, and having multtipliced there, it gradually spread over the southern parts of New Yokk and
Connecticut, and continued to spread inland at the Connecticut, and continued to spread inland at thi
rate of fifteen or twenty miles a year. In this rate of fifteen or thent gradually spread over the
manner the tiny pas been found in almost every lo
country, and has be cality where wheat is grown. Canada was no
invaded by it till about the year 1816, when it be came prevalent in Lower Canada. It was firs noticed in Ontario in the year 1846
The Hessian Fly, à a general rule, passes
through two generations annually. The first of these occupies the autumn, winter and fore part o spring, and is reared at the roots of the young
plant, slightly under ground. The second occupie plant, slightly under seround summer, and is nurtorncil in the lower joints of the straw. The time by the climate, the state of the weather, and perOur crons of winter wheat are liable to two
attacks of the Hessian Fly, one generation reare at its roots produring anather which occupies the lower joints of the stalks. Thys the larve and pupe are in it continually from the time the ten der young blades begin to ap hear over,the groundi
in autumn till the grain ripens and if hapested in autumn till the grain ripens and is harvested
ithe next summer.
Spring wheat call rear but oike
brood of the insects; they consequently resort to it but little, if at all; nor can it sustain itself ex. in which to nestle during the autumn and winter. in which to nestle during the autumn and winter.
When hatched from the egg, the little wrinkled naggot creeps out of its egg-skin, crawls down the eaf, enters the sheath and proceeds along he stal
usually as far as the next joint below. Here it
fastens lengthwise, and its head downwards to the sasers lengthwise, and its head downwards to the tender stalk, and lives upon the sap. It does no gnaw the stak, nor enter increases in size, it it gradually become imbedded in the substance of The stalk. Two or
imree larve thus imbedded in a stalk serve to three larve thus imbedded in a stal down, or to
weaken the plant, and cause it to fall down
wither and die. In this condition it remains till wither and die. In this condition it remains til
it finally comes forth as a tiny two-winged fly. course the size and valut of the sap, which ough lossened by filing out the ear.
Natural Remedirs.-The Hessian Fly is preyed
pon by a number of parasitic insects, whose comupon by a number of parasitic insects, whose com
bined attacks are computed to destroy nine-tenths of every generation of this pernicious foe. It is owing almost entirely to these allies that our crops owing almost eserved to so g.
have been preg of the Hessian Fly.
ravages of
Artificial Remedies. - The best precaution to
the insect has shown itself in num take, where the insect has shown itself in numhended, is to sow the next crop of fall auntatn-
late as can be done with safety in the autumn about the middle or towards the end of September. This course prevents the parent fly from
obtaining any young wheat upon which to lay its obtaining any young wheat upon wind another gen-
eggs, and destroys the prospets of ano
eration. A fertile, thoroughly cultivated and well eration. A fertile, thoroughly cultivated and well
drained soil is as effectual a means of escaping loss rained soil is as effectual a means of escaping
from the attack of this insect as any that can be
Bencfit may also be derived from sow nentioned. Bonefit may also be derived from sow ing early an approved flinty-stemmed variety wheat, which is thus more capable of resis chief re
fly's attack upon it. But after all, the
iance for immunity is to be placed upon the labor y's attack upon it. is to be placed up
liance for immunity
of the parasitic enemies of the fly.
Another New Plant-New and Extra ordinary.
A new agricultural plant for cattle-feeding an paper-making has been introduced to public notic
by Mr. William Gorrie, Rait Lodge. Edinburgh It is a variety of the tree-mallow Lavatera arborea, the natural habitats of which in Scotland are th
Bass Rock, with other islets in the Firth of Fourth Bass Rock, with other islecinary heights vary from
and Ailsa Craig. Its ordin
six to ten feet, but it can be grown to more than six to ten feet, but it can be grown to more than
twelve feet. It is a biennial, but the first year it
may be planted after the removal of any earl may be planted after the removal of any early
crops and matured the following year. Chemica crops and matured the for them to be fully equal
analysis of its seeds show the in feeding properties to oil-cake, which is now
worth in Scotland about $\$ 50$ per ton, and paper-
makers offered the eame price for the bark that worth in scotland aboum price for the bark that
makers offered the eame
they now pay for esparto grass, which isalso about they now pay for esparto. grass,
$\$ 500$ per ton. This shows a return of about $\$ 40$
per per acre for the seed and bark, and it is expected
that the excess of fibre in the latter will allow the heart wood being mixed up with it, which will
add very considerably to the value of the crop.

## Small Farms.

Every one is almoss obliged to do some work
from choice or necessity. Comparatively few ar able to get along without an occupation. The suitable choice, as they are so crowded as not to be lucrative. Some require too much means, and
only the favored few are able to undertake them. Farming to some seems to be not so genteelFarming to some seems to be not so genteel-
there is manual labor in it, and attention required to it. That also is necessary to success in every-
hing. In farming, labor and brains are required thing. In farming, labor and brains are required
your harum-scarum sort of a fellow is not wanted on a farm more than anywhere else. Men of small means cannot carry on a large farm better than an empty sack can stand on an end. Labor on
manall farm is part of the stock-in trade. Tw horses to a plow would break up a good deal o greund, and a harrow would level it over, and then
git is ready to be planted or seeded with corn o it is ready to be phe drills. The seed necessary to plant or put
wheat whethe wheat is not very costly; the palance of im plements need nut be very expensive. The dwell
ng and farm offices, as they are called in some ng and farm offices, as they are called in som
nlaces, are not expected to be on a very extrava gant scale. A cow or two and some few sheep an
hoge would
tart, with care and industry, the farmer, under
rdinary circumstances and luck must succeed rdinary circumstances and uck must succeed.
The work varies with the season. The good farme nust look ahead and must have everything pro ided and ready for the different work as it comes ing to the weather and variations as to drouth, \&c. We may now expect the farmer to enlarge his
usiness as merchants and others would. There usiness as merchants and others would. Here we might say as many succeed who start on a small
cale as those who have abundant means. cale as those who have abundant means. What ignifies ahundance if there is not industry, econ care of itself, and without proper care will gradn ally disappear.
My aim in this is to awaken thought and encourage young men to enter with zeal as agrical
turists. Not every one is able to farm on a larg Ncale at first. Not more will fail in the busines
sury one a for than do merchants and speculators. One is more apt to succeed in different operations. who has heard of merchants making good farmers and
farmers good merchants. It often happens that farmers make good legislators, but it is not advis able for them to become pliticicians and office seekers. In course of time there will be more labor is scarce, farmers can assist each other by labor is scarce, , armers can assist be necessary to modify farroing to suit the wants of the country; grazing mi
together. The small farmer may be independent-his house
will shelter him, his farm feed and clothe him.
Therefore, "be always sure you are right, then go Therefore, " be always sure you are right, then go

## General Items Interesting to Farmers

Faust'abyy loaders are very efficient ; they will put the ${ }^{\text {andy on the wagon as fast as any man can }}$
load it. We saw it working last summer in Oxload it. We saw it workng last suite satisfied with ford. On many farms it will pay for itself the first eason. The draught is scarcely noticed when hitched on behind the wagon. The work is done by means of steel teeth that revolve and gather up the hay; a light carrier delivers it on the wagon. There are none of these implements mad in Canada, but a great many are manufactured in the States; more will be introduced into Canada this year.

Exhibition Grounds.
In Toronto a few interested parties have caused a road to be run through the grounds in which the of traders and speculators have been permanent It is now estimated that the citizens will be taxed to the tune of nearly $\$ 200,000$, and not have as convenient a place for the exhibition.
An attempt is being made to destroy the beauti ful exhibition grounds in London. Some specu lators may be desirous of making a small fortun by the change; they care not for the public good Exhibitions, when held at a great distance fro the centres of population, are nevorso well attended If the citizens of London allow themselves to deprived or their present as rod the conse will never have any near as good. Thers, as no railway or strectear accommodation meets the requirements for short distances and large and sudden crowds.
In this issue you will see the advertisements of the best Horse Rakes manufactured in our Dominion. There have been other manufacturers who commenced making Horse Rakes, bad what nearly ceased operations You must read what they are grool, efficient implements, and soon save their cost.
heir cost
Read Messrs. Harris'

The California hop crop this year promises to
exceed in profit all other productions of the farm. exceed in proro ald a failure in England, and the demand for California's surplus is accordingly very good at remunerative prices. It is a temptation to to engage in hop-growing, especially when the narket ranges, as at present, from 24 to 28 cents
per pound, and when he can produce 2,000 to the per pound, and when he can pe.

The great sale of Shorthorns of 1877 wind the in London on the 6 th and 7 th of June, and place in London on the 6th and 7th of June, and
one and a third fare per G. W. R. and G. T. R.

See new advertisements for Ayrshire stock ; in formation about bees, hay loa
rakes, and other requirements.
A farm in Ireland of 14 acres paid rent, kept 4 of $8 \frac{1}{2}$ acres paid $\$ 50$ rent, fed two cows and the family, and yieldeen anet return of $\$ 2000$. In Bel childern, and a hog and a cow. The secret o these results is to be found in manure-the foun dation of all good husbandry,
great element of the farmer.

The waters of Rice Lake and tributaries, to Quinte, and also that portion of the Otonabee Lock's Bridge, Peterboro', all within the counties of Hastings, Northnmberland and Peterboro', il the Province of Ontario, are set apart, by procia-
mation in the Gazelte, for the natural and artificial propagation of fish during the space of two years, from the 1st of May, 1877.

Should your wheat be too rank and in danger of lodging, you may go over it with a long roller be fore it shoots into head. It will check the growth; the wheat w
save a crop.
coulty zara.

## Fowls in Confinement

 With methodical care, the writer has found one o the requirements demanded of them, but the meed will bear confinement as well as another, and do well if managed aright. It will not answer o shut up wild, untamed fowls that have al ways nd confine them in close quarters. They will pine, beat and bruise themselves against their rison walls, and if they do not kill themselve come accustomed to confinement by degrees, com-nencing with the chickens, and when once conmencing with the chickens, anily care and atten int thing; next come clean yards and buildings, and healthy, suitable food. No one would think of confining a pen of Brahmas for egg-production,
and supplying them with a full feed of corn, for the reason that it would fatten them too much and cause them to become heavy and sluggish, and
cause a decrease in the amount of eggs. Breed cause a decrease in the amount of eggs. breed on a limited ration, since the overplus of feed does not go to increase the amount of eggs. Soml
breeds, like the Asiatics, require considerable bulk
or filling without so much heat. Wheat bran, breeds, like the Asiatics, require considerable bran,
or filling, without so much heat. Wheat bren
moistened with sour milk in the summer season, i moistened with sour milk in the summer season, is exxeedingly good to produce eggs, if fed to the
larger breeds, together with a feed once or twice larger (distributed according to judgment) of cracke corn or buckwheat.
There is no breed that will not bear confinemen
(among the common domestic breeds) if treated ac cording to the requirements of their peculiar na ture. The writer is becoming more and mor opposed to feeding whole corn to fowls, especially
in confinement. It is certain that fowls kept in in confinement.
close confinement for any length of time are weak.
They miss tho constant exercise so natural to them, are ant to become feverish, and frequently sicken.
It requires a strong bird to digest a full crop of It requires a strong bird to cigest a hur confine-
whole corn. The Spanish class will bear
ment as well as ony, but it is frequently neeessary
to clip the primary quills of one wing to keep them
within the limits of an enclosure. Every one is not aware, perraps, what a large amount of green confined, we should study their different nature and habits, and supply them with the food neces sary for their well being, and which they woul
obtain if at large. We must make it a study if we would be successful, and endeavor, as well as may be, to supply, either in reality or by imitation,
that manner that they would naturally choose in that manner that they would naturally choose
their state of freedom. Fowls are fond of fresh, their state of freedom. Fowls are ron. Where one has room, and the convenience, a movable fence in
very beneficial. When the yard becomes so filthy with the droppings as to be disagreeable to the with the roppings aith this fence they can be shifted to fresh earth, and their old quarters can be thorough
The great aim at the present day appears to be
the largest amount of egg-production, and that breed which will give the greatest amount on the least feed is to become the popular one. But ant hens only to sith wall judges difer.
sit, in the writer's opinion there are none better
dane adapted to the purpose than the pure bred Light
Brahmas, choosing the lightest and smallest Brahmas, choosing the lightest and smanes
bodied specimens. They make excellent mothers, are quiet, and bear confinement in close coops re markably well. The only drawback is their grea weight, which unfits them to become mothers
the smaller breeds that are delicate when firs hatched, or even when a week old. There is also difference in hens hatching their eggs. Some peeps in the shell before breaking it. This un easiness is frequently fatal to a whole brood, a the mother, in her movements, crushes and destroys the onck. A emergencies is a valuable
and persistently under all
bird for hatching; but one that is nervous and basily disturbed should never be allowed to sit
eater
the second time. The Light Brahmas have gener ally proved good hatchers. At present the write is laboring under the idea that habit, even among
barn-yard fowl is contagious. After procuring Brahmas for the sole purpose of hatching and rear
ing the Brown Leghorns, the Brahmas appear to have patterned after them, and become lay
stead of sitters, thus changing their nature.

Errors in Poultry Keeping
Although there are many widely different breed
fowls, adapted more or less to the varied wants of the farmer, there are some general rules for their management which are applicable every
where; and many flagrant errors aremade by most where; and many flagrant errors aremade by mos of keeping hens until they become too old for profit, because they were choice bir ds and good layers about half as many eggs the second year as the first after she commences laying. All fowls kept by a farmer after they are two years old are kept
at a loss, as far as money is concerned. When a at a loss, as far as money is concerned. When a
whole flock is allowed to run without killing of the old ones and repla ing them by pullets, disease is sure to attack them. They become liable to
gapes, cholera, \&c., after they become aged. If the practice of keeping only pullets is once followed, I am sure that no farmer will ever abandon it.
Another
Another bad practice is that of allowing the any one and hide away their nests, and the few hickens they hatch loose their lives from want
hod, care and shelter. To be sure, chickens food, care and shelter. fields by a wild mother, are hardy, but this practice is not profitable, as the cost of wintering ex
ceeds the summer returns. As a genelal rule, eeds the summer returns. As a genelal rule,
however, summer chickens are more profitable than the very early ones, as they get a more varied
diet, better exercise, and are healthier in every diet, better exercise, and are healthier in every
way. But fowls, to be profitable, must be kept
 for sale for breeding or show purposes, it is neces
ary that the chickens should be hatched as early ary that the chickesible, so that they may attain
in the season as poss full growth and feathering by fall.
Another error is in trying to raise the Asiatics and other large fowls. They require much more
feed and care than the Polands and other smal eed and care than the Polands and other smack
breeds. As far as my experience goes, the Black
panish and WWite panish and White Leghoris are even more profit able than the Polands. I find, also, that if any
brech is allowed to run year after year withou
change of cocks, it does not take long to make that
breed unprofitable and liable to disease. Some poultry fanciers say it is necessary to breed in-and-in, to keep up the purity of the blood. 1 this is so, then 1 prefer fowls that are not pur
bred. It will not do to transgress the laws of nature in any direction, and nothing shows quicker

## Plymouth Rocks.

## This variety is becoming very popular, and it is

 eally a good breed; they are good winter layers and the young chicks are strong and hardy ; they are not iable to digease ; they are also a first-class table fowl. There is much to be said in their qavor; and as they are possessed of so many goodqualitien, there seems to be no doubt that they are a breed made up by crossing different breeds, but there seems to be no limit to the number of aspir we must look upon most of this as merely a chea we must look upon most of this as merely a chear
way of advertising, as it hardy posisbe that
there are a dozen originators of the breed, and there are a dozen originators of the breed, an and that each has the only original strain; nor is there any doubt that they have been bred for a the honger period than most of the aspirants fowls of any krind. They have been bred in Can. ada for more than twenty years ; although they have been improved very much in color during that truer to color now than they did twenty years ago; in fact, it is doubtful if they breed as true now as nd from the same flock you will have some much too light and others just right, and we believe the
ault lies in the breeder, who, in many cases, does not care about inprong trio or two of good show birds, hen ninety per cent. of his stock are worthless or the show pen or sale as a pure breed.
Pregerving Egas.-A writer in the English fectly that, atter a lapse of six months, they wermistaken, when brought to table for fresh laid
and good for twelve months. My mode of preservation was to varnish the eggs as soon after they were
laid as possible with a thin copal varnish, taking care, that the whole o,
the varnish. $I$ subsequently found that by paint ing the eggs with fresh a albumen, beaten up with a
ittle salt, they were preserved equally well and for as long a period, After varnishing or painting with albumen, I lay the eggs upon rough blotting
paper, as I fond that when allowed to rest till dry upon a plate, or on the table, the albumen stuck so fast to the table or plate as to take away
chip out of the shell. This is entirely obviated by the use of this blotting paper. I packed the

Dripd Egas.-A large establishment has been ppened in st.LLouis for drying eggs. It is in full
operation, and hundreds of thousands of dozens are yoing into its insatiable maw. The egga are care
fully "candled" by hand-that is, examined by light to ascertain whether good or not-and are then thrown into an immense receptacle, where they are broken, and by a centrifuga operahion ther white and youid honey is parted from the comb. The liquid is then dried by heat, by patent pro cess, and the dried article se s is ready for trans
and it is put in barrels, and portation anywhere. This dried article has been taken twice across the equator in ships, and tha from fresh eggs in the ame manner, and the best judges could not detect the difference between the two. Is this not an age of wonders? Milk made
tolid, apple-butter made into bricks! What next?

Charcoal for Polltry.-Charcoal is so neces provide it for them is to open the way for the appearance of cholera among your flocks. The Giermantown Telegraph says: If any one will put an
ear of ripe corn into the fire till the grains are well charred, and then shell off the corn and throw it to his tlock, he will see an cagerness developed
and a healthy condition brought about which will make a decided improvement. All pale combs
will become a lright rel, that busy song which precedes laying will be heard, and the average
yield of eggs will be greatly increased.

## deterimary.

## Shot of Grease, or Weed in Horses

 (Lymphangites).Sir,--I have a good horse eight years old; I
left him in the stable apparently all right at night, the next morning he was standing on three legs. the next mornig hy wrong with the hind leg that
I could see nothing
was bad. He could not put it to the ground with. was bad. He could not put it to the ground of the
out pain. I could hardly touch the inside of the
Please let me out pain. I could hardy trouch, here Please let me
leg, but could see nothing wrong.
know what is the best to do with him.
A SUBSCRIBER. [We have referred to our Culloden veternary correspondent; he says the disease is shas
Grease, or Weed in Horses " (Lymphangites).
This is the season of the year that this disease
is most common among Canadian, horses when they are hard worked, and highly fed, and gener ally appears after a day's rest, when It is cansed by too much nourishment being taken into the system forming more chyle than carry, consequently causing congestion or ing.
mation of the lymphatics or absorbent vessels.
It is the hind legs that are generally affected,
but the fore legs are also liable to the same disease. but the fore legs are also liable to the same disease The treatment requires to be more constitutional
than local. Give a smart dese of purgative medithan local. Gix to eight drs. of Barbadoes aloes,
cine, from six to cine, from six to calomel in a ball. There is not much danger of giving too large a dose, as the bowels are generally constipated, and without
purging treatment in of little avail. Bathe the leg
well with warm water twice a day and rub till purging treatmen water twice a day and rub till
well with warm
dry, taking care always to rub with the grain of dry, taking care always to rub witte the grain of
the hair. Do not in any instance apply a blister or any irritant to the leg, as it greatly agitates the disease, and in many instances Ieaves a permanen
thickening of the leg. After purging, give a tea thickening of the leg. After purging, give a tea
spoonful of ground saltpetre in the food every spoonful of ground saltpetre in the ood every
night for a week or ten days. Feed on bran
mashes, biled oats, and other easily digested food,
and give gentle walking exercise. - Er.]

Sore Teats.- I have two cows that have sore teats. I am afraid they will become useless, as
have had other cows dry up before now. Can you give me any remedy?
S., Bryanton.
[See "Garget in Cows" on page 135.-ED.]
Sir,-Mr. Emmett wishes to know if you could
and of the wethers in a cow that has not calved. 1 have used alum-water and Cayenne pepper for a
wash without fail, butt it will not prevent his cow wasting it again. She is in good condition. If you casting know anything, be kind enough to let us
should
know in the next Advocate. T. D., Sparta. [This complaint appears to be constitutional with some cows, but there is not much danger as abortion seldom occurs, and the uter
verted till the fotus is expelled.
The animal should be kept in a stall with the hind end elevated so that the uterus woald gravi-
tate forward. Give occasional doses of an ounce and a half of laudannu to prevent straining; and the bowels kept regular by gentle laxatives, such as the animal may requice. When the uterus proas the saman to come in contact with any dirt, it should bo washed with tepid water, and apply a
little of the following lotion :- Sulphate of zine, little of the following lotion :-
dr.; alum, $\frac{1}{2}$ oz; cold water, 1 quart ; laudanum,
, land tr.; alum,
1 oz. It seldom necessary to apply a truss and
It $\stackrel{\text { paz. }}{\text { pat.] }}$

SIr, - Can you or any of your readers inform me
if there is a cure forr hlack leg in cattle, or how it riginates, as I have lost several valuable cattle with it this spring. Please inser
number, and you will much oblige.

A Subscriber, Hemmingford.
[Black leg is a blood disease caused by feeding on rich or succulent food, sometimes by impure ai in stalles. Treatment Give doses of prorgative medicine (such as an potash and sulphor.
of black antimony, nitrate potash alcers have formed, enPut seaton in dewlap. If uleers hamen wounds.

Prevention is better than cure. Do not let cattle on too rich pasture at first in spring. Arsoon as on hay and oats in stable.-RUDD \& TenNent Veterinary surgeons, London.]

## Care of Horse's Feet

When the foot is gone, there is no horse left. There is an old adage to this effect, the truth of which is incontrovertible. Ye pors and therear no more frequen disenses to which the notice of the verinary surgeon is brought than those o the feet. This comes of the unwise yet obstinately maintained fashion of rasping, cutting, burning tarring, and greasing the hoofs. It would occupy too much space here to describe the anatomy the foot fully, but it is a very timely matter jus now to consider the structure of the horny outer inner parts are protected.
Horn is a fibrous substance, which contains 2 per cent. of water. The fact that it contains wat in its normal composition is a very important one and needs to be stated here, because, unless speci fic reasons are given, very little weight is gener ally accorded to all that may be horse's foot by about the proper ters, farmers, blacksmiths, or professional horseshoers. When horn is deprived of water it becomes dry, hard, and without elasticity, precisely line a a pplinters into glassy fragments. It is necessary, therefore, that this water should be retained, to keep the horn in good condition. The common practices of burning the sole to procure a get a
the shoe, or rasping the outer surfaces to get good shape, and so tarring and greasing the hoof, all tend to drive the water out of the horn, and not only to harden and sontrite. In this condition its usefulness as a protection for the foot is at once impaired and partially destroyed. When the sole is burned by con inct with a hot shoe, in is that is heated must be driven off. That is so obvious that no more need to be said about it. When the smooth, polished, inner fibrous portion is exposed to all the evil in fluences of evaporation and degradation, and the numberless pores and cells or interstices of the
horn are forced to give up the water they contail. The horn in this case is also made dy an acid and a volatile oil, which evaporates andleaves
a hardenel pitchy mass. When tar is applied to the hoof the acid acts che and hardens or disintegrates it, and the oil, eva porating, leaves a space wetween the hardened residue. It operates precisel in the same manner as when it is applied to leathe -as a sole of a shoe, for instance-as a preserva unve, the leather ervious to moisture, and dry. with tar, so with grease; both these substance drive out the water from the horn and occupy its place the hoof crust rendering it brittle, and contractin

The substance of the frog is horn, but is of softer and more open texturefore, more easily af
crust of the hoof. It is, theref fected by injurious conditions, and when it be eomes deprived of its water it shrinks more than
the more solid hori the more solid horn. From covering of the foo
the character of the horny coverion any reasonable horse owner may learn how to trea the hoof, and how to avoid injuring it. When shoe is to be fitted,
prepared by cutting or rasping and not by burnprepared by cutting or rasping and not by burn-
ing. Indeed the shoe should be fitted to the foot,
. and not the foot to the shoe. When, from bad
management, the sole and the frog have become dry and contracted, no grease or tar should be
used; but water should be used freely, and then the hoof should be dressed with glycerin, which will mix with water, and does not displace it.
Glyearin contains no aldid or acid properties, but is soft, lland, emollient, and does not evaporate.
It therefore sortens the horn, and allows the ft therefore sortens the horn, and allows the fibres to expand. it ontraction

## Is There a Profit in Shorthorn

 Breeding?Those who have expended such large sums in purchasing Sherthornsto establish a "Herd" sometimes find that whatever good they may have been the means of doing breeders at large, it has not
been with great profit to themselves. Sir Wilfrid been with great profit to themselves. Sir Wilfrid
Lawson who has had considerable experience in the matter, said at a Shorthorn sale
It is rather difficult to make an interesting speech on farming matters now-a-days, because the ro-
mance of farming is gone. In the old days we used mance of farming is gone. In the old days we used in the house and the neighbors turning out in picdone by a complicated instrument. Then in har vest time we used to have the beautiful robes o reapers and gleaners. Now all that is done by
horse-power. The ploughman is almost gone. horse-power. The ploughman is almost gone.
Now all our fields are plowed by a mechanica monstrosity belching out fire and smoke, which ha entirely outstripped the ploughman who used $t$
be the emblem of simplicity, propriety, and stupid ity the embeers and laughter). The only romance that ity cheers and laughter). The only romance that sure you will agree with me that their symmetrical
forms will be a pleasure to the artist, their massiv frms will be a pleasure to the artist, their massiv pedigree give promise to the breeder of an ample described you will see to-day brought into the
ring. But it is not all gold that gliters (hear
hear). You must hear). You must remember the anxieties, the
disapointments, the mortifications which the bring his animals before you in the condition in which you see them to-day. Some won't breed ted to bring long prices do not realize the expecta tions of the breeders. Besides, it is a very ex pensive business
other day thaughter). "Life of Lord Spencer
I a distinguished Shorthorn breeder (hear, hear) and I find that in conversation with a friend one day he said he had had a capital year with, his Short-
horns. "How much did you make " asked his frinend. "Make", he said, "why I only lost tive
hundred pounds" (laughter). And he proceeded to say that his annual loss, which he looked upou you the anxieties and troubles we have to go through, and to show you that you ought to con-
sider a Shorthorn breeder as a patriot working for the good of his country (cheers and laughter).

## Horses in the states.

by h. G. crickmore.
The following extracts are from a paper read re ently before the New York Farmer's club:-
Having endeavored to show that there is a marthe market can be supplied, and in this respect I must crave your attention for a moment and travel
directly from the subject matter of this paper. $a$ turf reporter it has long seemed to me that nearly all the state and county agricultural societies have been somewhat neglectful of their true interests,
and instead of encouraging the breeding of useful and instead of encouraging the breeding of useful
animals in their immediate districts by offering encouraging premiums for young stock, brood
mares and stallions, they have offered a few cheap medals, with little or no attention or accommodatime they have paid too much attention to the trotting of a lot of worthless geldings, which fo
any real use were not worth their shoes. Instead of risking so much money on "exhibitions of speed," the societies should buy a half, or quarter
Hambletonian stallion, or a thoroughbred stallion -the get of Lexington, Australian, or in fact any
well-bred stallion-possessing bone and substance with good trotting action if a trotter-a horse with in necessary pass the inspection by a German or
Russian Government inspector. Any association adopting such a course, with the presumption tha capable man, devoted to his business, would in few years introduce a new source of wealth to their members, instead of their mares, as is now often
the case, dropping worthless colts and fillies, pos. sessing neither shape nor strength, and often in heriting diseases rendering them at five years old
only fit to drag outa mise rable existence in a brick-
yard. Such ar association would accomplish at
least one object for which it was organized. Not.
lonly would the members of the association benefit only would the members of the association benefit
by the services of their stallion, but new interests would spring up in the vicinity. Every breeder
would naturally endeavor to show the best stock, wand in course of time "horse fairs" would become one of our most interesting spring and autumn holidays. Buyers would be attracted to the neigh borhoods thit excelle in any special breeds.
Some counties would excel in carriage horses;
others in saddle-horses. One would become famous for its chestnuts; another for bays, blacks or grays,
its roans.
A few
A few words more on the subject of stallions. Farmers/and breeders cannot be too particular to service by some big, peripatetic, soft-looking brute, with a pedigree that is said to run back for a cen-
tury or two, should be especially avoided. In fry or two, should be especially avoide. .
fact, it should be made a criminal offense for any man to "tramp" through the country with a stallion claiming a pedigree which is plainly false.
But what would be better, in my estimation, is that the several State governments should take licly advertised without first having been duly exmined by a competent veterinary surgeon, and if proper proof, the evidence of which shall be duly set forth in the license that those controlling the thould be licensed for such publicservice that does not come up to a standard to be prescribed by a State agricultural board. Of course the care must ot all be on the parthy of good size, and prop-
hould at least be healthy, erly taken care of, at all times.
Personally, I would even go further in the matter ishment in large agricultural districts of nationa or State stud farms similar in character to the imperial haras of Germany, Austria-(Hungary) and
Russia, believing that with proper economy and thrift all money invested would pay amply in the system such an idea is Utopian, but it is a success in Europe- Kisber, the winner of last year's Eng-
lish Derby, having been bred on the Imperial farm at Kisber, Hungary, from whence he was sold as a State or National Government should not giv
some support to an industry that can be made so some support
productive.

## The Pig.

Black or slate-colored pig are freest from skin
diseases in hot climates. The choice diseases in hot climates. The choice is practically
between the Essex and Berkshire for which to improve the native stock of hardy grub bers of the root-or-die variety. Those who have
tried the former have been delighted at first, but after a few years began to recall with longing the
lean hams, and thin but solid and flavoroun of the old race-horse breed. The trouble with the Essex pigs, for the South, is that they are no
active enough. They are of the eat-and-sleep, and sleep-and-wake-to-eat kind, and their grades are of course like them. The side fat is superb, and
so is the leaf lard, and so far the breed is all that could be desired ; but the hams and shoulders are
too fat for too fat for profit, and the ham is not marbled with
fat like the Berkshires. These (the Berks) are much more enterprising, more wide-awake,
easily controlled, but good foragers. Their grades are a wonderful improvement upon the original stock, may be made very fat, and yet the propor-
tion between fat and lean in the hams, shoulders and side pork or bacon is such as to develop and preserve the excellencies of their meat. The hams are large and rich, and juicy with diffused fat.
Berkshires are not quite so easily fattened when penned and systematically fed, as the Essex grade, but they will take much better care of themselves in the woods, and when penned for fattening may
be finished off with half the feed the original "land pikes" would require.
Essex is a more profitable pig than the Berkshire ecanse his nature leads him to take a little exser cise, so that all he eats goes to flesh and fat. Res-
irati with him never, if rapiad, reduces fat greatly, is
vited by moving about, and, vith plenty of feed, the sole burden of life is to back breeds, and excelled by none as fat pro-
lucers. $-A m$. Agricullurist.

Swimmingi a Horse
When swimming a horse, never touch the bridle as a horse is easily drowned when checked up or
otherwise interfered with about the head. Sit well back and guide the horse with the hand, gently
slapping him on either side as required; thas a horse will swim a mile or more with a full growi safer way on reaching deep water is for the rider to relieve the horse of his weight, by sliding into th water beside the horse, grasping the mane near the
withers with one hand, thus requiring the horse simply to tow the rider, the latter assisting him in this, by using his legs and free arm in the same way
as in swimming. In crossing rivers with rapid currents, the rider should take the down-stream sid by the Intetians with much success. ${ }^{-}$Cor. ${ }^{\text {Practised }}$ Gentleman.

## Cattle Food.

Experience teaches us that cattle thrive best on less beef than hay and grain. The animal struc ture of the ox also demands bulk in food, as well ing only profitable so far as the animal assimilates heap, at a cost far beyond its value. The ox has approximately eleven and one-half pounds of stomach with only two and one-half pounds of inweight; the sheep has less stomach and more in. testines, giving a smaller percentage of digestive
apparatus; while the pig for every one hundred apparatus; while the pig for every one hundred
pounds of live weight has only one and one third pounds of stomach to six pounds of intes:tines. A steer would thrive on a bulk of straw, with a little oil meal, that woul shink a sheep
and starve a pig. Pork can be produced from clear cornmeal, while mutton requires a greater variety of food, and beef cattifowould become cloyed and diseased with its exclusive use. A thoughtful at-
tention to these broad facts will change much injudicious feeding into cheaper meat production.

## Garget in Cows.

This is a common disease of dairying cows, occurring shortly after parturition, or maybe imme-
diately before it, and attacking especially free nilkers after their first gestation. In cows the
womb and mammary glands receive their blood rom the same large trunk vein. This may be a reason why the secretion of milk almost invariably ecome also renders the glands very liable to overexcitement and disease. The abundant flow of rich and stimulating blood, to the udder on the milk, usually lead to a certain amount of fever with lassitude and restlessness, heat of mouth and diminution of appetite; and this may pass by an
easy transition into sanguineous congestion or inflammation of the organ. If the milk is imper ectly drawn off, the condition will be fostered a cow may soon be rendered all but useles through treatment of this kind at the hands of a diet on the first few days after calving is a fruitful source of disease of the udder, as it is of the justly Perhaps that in which the calf is allowed to suck its dam but even in these circumstances the adder may
beome congested. The calf may be too weak to abstract a sufficient quanlicy, or the dan may obherself to be milked. A number of external causes may favor the development of congestion
Wounds, blows, bruises in lying; prolonged con tact with cold pavement; or exposure in a draught of cold air, may act in this way. Some one quarter only hut most fr, quently the two quarters on the same side are simultaneously at tacked. The gland swells in a general and uniand manner; the skin covering it becomes tens
and glistening; ;it acquires an elastic sensation and much tenderness. The swelling is not limited to the gland, but encroaches on surrounding parts
as well, and frequently extends forward on the helly allonost to the fore limbs. In some yood
milkers, 'after parturition, the last symptom is, howcver, quite consistent with perfect health. In
short time the swelling of the short time the swelling of the gland loses ite wni-
formity, becomes knotty at certain points, and
$\longrightarrow$ Aurchasing Cows.
acquires a soft and pasty feeling in place of its pre-
vious tense elasticity. The yielding nature of the vious tense elasticity. The yied from the fluctuation caused by the presence of matter or othe
liquid materials from the blood into the areola tissue of the gland. Lameness is usually we
marked; the hind limbs are kept apart an stretched backward, while in waiking there
halting and inability to advance the leg on the ef halting and inability to advance tatient frequent-
fected side. When ftanding, the pate
ly lifts her weight from one hind foot to the other ly lifts her weight from one hind foot to the other It acquires a gray or yellow tint and a thin serous or glairy appearance, and it may be in part coagu
lated, in which case it is mixed with small grayish white masses of curd. Fever may or may not
exist. It is seldom very marked, unless the glan becomes actively inflamed, when we ha
more serious condition to contend with. The treatment must be in from the excessive secretion of nilk, and in part to counteract the congestion. In the milder cases a goo gilk the animal bing of the udder and due care to mike The rubbing may require to be repeated for several days before duced and softened, the skin reassumes its normal color, and the tenderness disappears. The young milk, and at the same time subjecting the highest to an amount of frice will sometimes be advisable to seek to diminish the secretion of milk by putting the cow on a spare det. in prime condition, be kept on spare diet for at more generally acted on, the diseases occurring about the time of parturition
numerous. Besides low diet, it may be needful to give some depletion agent, such as nitre (in ounce
doses) or Epsom salts (to the extent of a pound) combined
In more severe cases, frictions, with stimulating liniments, may still be employed, provided there
is no active inflammation in the gland. For this purpose camphorated spirit of wine may be used, or liniment of ammonia. In all cases it is of the
utmost importance to have all the milk removed by frequent milking. If the soreness of the teata prevents us from effecting this with the hand teat tubes must be employed by a careful aitend ant. Above every thing, iraaghts of coll to colaness of the surface, the cow should be careunly clothed
It will sometimes be found necessary to use fo It will sometimes be for., but these are rarely mentations, poultices, \&c., but these are rarely
needed so long as the condition is ouly one of促
The Outlook for Breeders of ShortNotwithstanding the prevalent distrust as to the financial future, the general stagnation of busi-
ness, which is being felt all over the country, there ness, which is beeng fithin the past ten years when
has been no time will there was so general a demand for good, well-bred Short-horn bulls as at present. From all quarters men upon whose statements we can place implicit reliance. The fact is, the experience of the past ten years has educated the gnowledge of the value of improved stock, and improved methods of agriculture, and now, when they keenly feel the effects of the financial experience has taught them in order to make farm ing profitable. While more prosperous times wer upon us, it mattera practiced the most economical good stock or poor, practiced the most econo most wasteful, negligent and extravagant-every body was getting along now the case is different, the economical and the careless, negligent, and ignorant must go to the wall. Farmers generally begin to appreciate this act, better stock, practicing more intellyent methods
of culture, and using better judgenent in feeding, with rigid economy in domestic affairs, he their
own safety from bankruptey.
Short-horn breeders may well take courdge. The
farmers of the whole country have learued ta $\mathrm{sp}^{2}$ farmers or the whole cour matchless race of cattle,
preciate the merits of this
and they fully understand that the time has come and they fully understand that the time has come
when they can no lenger affird to breed and feed when they can no lenger afford to breed and
sorubs. They must and will have Short-horns.

No one will deny that one essential requisite to nocess in dairying is to have good cows for the usiness, and in considering how the would be to rely upon breeding animals upon the farm wher hey are to be used, raviding a kind or race of andom from do obtained that will transmit desir able qualities or excellencies from generation to generation with reasonable certaly on the common stock of the country to obtain from cultivated breeds which have been long bred in reference to pecial qualities, and have this regard. It think our dairymen need not look beyond four or five breeds of thoroughbred cattle for obtaining desirable res
sults, namely the Short-horns, the Ayrshires, Devons, Alderneys, and the Dutch or Holstein Ca1tle. There are other breeds more or less anane
n the districts where they originated; such as the Gallways, the Kerrys, the Herfords, the Bretons, the Swiss and other European varieties, so native districts, have not given such satisfaction on the
whole as the breeds I have named.-Practical whole as the bry
Dairy Husbandry.

Keep the Lambs Growing.
Every breeder of experience know that the animals reaching he highest types, of perfection are those which get no back sets du ding the
first season. To secure their thrift during the spring months, when the lambs are young-thus
sime not requiring a large amount of nourishment, and
when the fresh pasturage insures a constant and When the fresh pasturage insures a constamparatively easy; but to keep up the nutrition in the ing animal, when meadows and hill-sides begin to ing animal, when meadows and hil-sides begin the to be a difficult problem. Unless the pasture is
ample, even in the dryest season, lit should be diample, even in the llock is not allowed to range over the whole of it at will. By dividing it into two or more lots, fresh feed can be had at such inter
vals as will be found beneficial. When it is necessary to fold the flock at night, care should be had to allow them access to grass pretty early in the morning, as, during the hottest days of summer,
heep will stand hungry in the shade of trees or sheep will stand hungry in the shane or hottest portion of the day. There need be no hurry about getting them ofl the pasture in the evening, they will
generally indicate it when ready to lie down for the night. When possible, their water supply or steady and satisfactory thrift of a flock of lambs, let their surroundings be such as to insure
the highest degree of comfort-a full belly, and the highest degree of comfort-a full bell
protection from the extremes of weather.

Mescrs. C. C. Chamberlain \& Co., of Boston, in
ance remarks with regard to packing butter. The same will apply equally well to Canadian packers:-
"As the season for grass butter approaches, a few suggestions in regard to packing it may prove bencicial to all interested. The style of the packpers are aware of. In this market there is a decided preference for a neat Eastern-made white ash rys sells the netting from the tubs should be well aked in brine before filling, the butter packed solidy, and filled within a quarter of an inch of
the top of the tub. Cover the top with a piece of lean, new, bleached cotton cloth, soaked in brine,
nd tucked neatly down at the edge. In packing butter and getting it ready for market, neatness is indispeusable, and besides that, it pays. Never
pack two colors in the same package. Light colpack two colors in the same package. ow prices. Use Ashton's fine salt, or the next best you can get. Tare your tubs correctly and and
or' one pound soakage, as it saves trouble all round, the time having gone by when wood, salt and pickle can be sold as butter.
Analysis gives the nutritive value of corn to be
compared with that of oats, as 70 is to 60 . An average of several tables takes the value of a given Hantity of onts to represent 100 while the value
of the same quantity of corn would be 95 . Hor
ien feeding to young anil growing animals, corn is less suited thani oats, and the difference between th
 medicine infallible, is not popular because it is so simple, handy and cheap. A dose or two of fron
ine to two gallons of dry wheat bran has never one to two gall
failed with him.
Horse Foon.-Of the different kinds of grain, ats is peculiarly the horse's food; al ways safe,
digastible and nutritive. Barley is the best sub titute for it. Wheat and Indian corn are someimes given, but both are unsuitable; the first is oo chncent to be sparingly used, and only when ground ought to be sparingly used, and only when is never objectionable. Grain is always more advantage usly fed when ground and it is still better when cooked. On both sides of the Mediterranean, in the Barbary States, in Spain, France a and Itaky,
much of the food is given in small baked cakes and the saving in this way is much greater tha
the expense of preparing it. -Stock

## simple Method for Tonning at Lamb-

 skin with the Wool On.Make a strong soap-suds, using hot water; when
it is cold, wash the skin in it, carefully squeezing it is cold, wash the skin in it, carefuly squeezing
it between the hands to get the dirt out of the wool; then wash the soap out with clean, cold
water: next, dissolve alum and salt, of each half a water; next, dissolve alum and salt, of each half a
pound in a lot of hot water, which put into a tub pound in a lot of hot water, which put into a tab
of cold weather, sufficient to cover the skin, and let it soak in it over night or twelve hours; now hang the skin over a pole to drain; when well
drained, spread or stretch carefully on a board to drained, spread or stretch carefuly on a
dry. It need not be tacked if drawn out several times with the hand while drying. When yet a little damp, sprinkle pulverized saltpetre and
alum (an ounce each mixed together) on the flesh alum (an ounce each mixed together) on the flesh
side, rubbing it it well. It now to hang in the shade for two or three days, the flesh side in until perfectly dry. When entirely dry, scrape the tlesh
side with a blunt knife to remove any scraps of side with Trim off all projecting points, and rub the flesh side with pumace or rotten stone, and with
he hands. Prepared in this way, it is white and the hands. Prepared in this way, it is white and
beautiful, suitable for a door-mat, and also nice for the feet in a sleigh or wagon

## Sure Death to the Currant Worm.

The destruction of currant bushes for years past by worms has been the means of enhancing the
price of that very valuable fruit in most markets, price of that very valuabe can be cheaply protected.
while with a little care it coll
It is a well-known fact that white hellebore is sur It is a well-known fact that white hellebore is sur death to the currant worm, hat at the same timeh
many will not try it, while others apply it in such many wall not try it, whished off by rains, or only touches the tops and outsiae leaves, leaving the
inside of the bunch of bushes for the worm to inside of the bunch of bushes for the worm to
feed upon. The whole secret is to apply it on the feed apon. of the leaves, where the worm fastens
under side that the powder will shake through sparingly, that the powder will shake through sparingly,
about 10 inches square ; put in about 4 ounces of the powder, and gather it up around the end of a
stick about 3 feet long, and tie it on, making a stick about 3 feet long, and tie it on, making
sort of bag at the end. I then make the applicasort of bag at the end.
tion in the morning before the dew is off by opening the bunch of bushes and putting the bag end
down nearly to the bottom and shake it, the curdown nearly to the bottom and shake it, the cur-
rent of air is then upward, and the leaves being rent of air is then upward, and the taves being
damp, the powder sticks on the under side. If the current of air, is a little sideways, shake low on
the wind side on the outside of the bunch of the wind side on the outside of the bunch of
bushes. It is not best to wait the appearance of the worm, but doctor the bushes as soon as the blossoms are well developed and the leaves are
half or two-thirds grown, and again after the fruit half or two-thirds grown, and agan after the fruit
has fairly set. This will usually do the work for has fairly set. The main point is to rightly apply
the season.
the hellebore, and with these hints and a careful the hellebore, and with these hints and a careful
attention, and the use of a little judgment, the attention, and the use of a
currant bush can be preserved.

Steam has been successfully used on the stree Steam has London. The machinery, which has oen patented by Mr. John Gianstitute of Civil Engineers, is quite hidden fom view. There is, in fact, nothing to indicat
its presenice extept asmall fumel in the middle of the roof. There is no heat felt, no noise heard,
nud stoppages are effected more readily than with anct stop.
horses.

## The story.

## How Percy Bingham Caught His Trout

 One lovely evening toward the end of the month of June, Barynnauushlae The sun had set in in flood of golden glory,parple shadows wooed midsummer-night dreams on crested
 child of the Atlantic, broken only by the thrill note of the the
curlew seeking tits hillow-rocked nest, or the tinkle of the
the curlew beel on the heather-clad heights of carrignagolliogue
stights bell
Light tike truant tars commenced to twinkle in lonely dwel
 preprared to
parted day.
 young man atitired in a faphionable tourist costume, and the
yriver, whose reneral "ret up" would have woin the heart of driver, whose general " get up"
Mr. Boucicault at a single glance.
"That's a nate finish, yer honor," he exclaimed, as, bring

 been a whan the contents of "the the lord 's" cellar was to b)
that a portion of the
found in Tom Burke's snuggery, behind the bottle-bristlin found in Tom Burke's snuggery, ,ehind the bottle-bist
bar, Th occupant of the car was ffugg into the arms of an ex.






 This was a strange sound, but the waiter was a bold man "Yes, Sir, of vourse, Sir! Would you like it hot, Sir?"
"Hot!" Certainly." "I said- Pshaw! Is dimer ready?" said the travelle
 surbsistence at lis very feet, and the cabbage to "poultice" the bacon flubbily flourished in tho adjoining garden.
"Get in my traps and rods" "the car was lallen with fishing
tackle of hhe most elaborate description.
tishing have you good "Yes, Sir,
 Marcoole's Rock last Thursoan; and Mix Mer Bate of Town Hill -more power to him .hooked
pool over under Kily
"I

 inspector got a wallop in the jaw that mace his teeth ring like
the bell in the midule o o Aass." And lie led the way into the
hotel. The charioteer, atter a prolened dand excitine chase throwghl



 "uad't stand smokin', is he snia the then,








"Musha, thin, he must be only' fit for wakin' whin $y$,


"Shure you won't forget the little mare, Captain ?",
"Forget her on" Not likely, or you either, Patsey." Forget her ¢" Not likely, or you either, Patsey." Ye'll throw her a half crown for to dhrink yer health Drink my health? What do mean?
 vamers on my sidi, so riit

Percy Bingham, of the -th regiment or or her hine fivan
Westport even more drenry than the Curragh of kidur Form the etater he courd reary up than the cubin in inghe ofening and
return the next morning for parade, even if he had to tur ito bed after wardi. from Wer wetpore, there was nothing to be
one but the smmit of crogh Patrick or 2 risky cruise amon
one the








 land-locked Killeries. "So my dimer is ready at last,", exclaimed Binghan, pe
tishly A good digestion had waited two mortals hours o
 chice cens, Sir! Look at the lovely bacon, Sir! Survey the
hit proportions orghiring brow, he gazed at the viands, and from
heross his
the viands to the guest, il alternate glances of admiration the wiadd sto
and respect.
"
"Yes, Sir, of course, Sir- two of them ; likewise a shay a
"A wine carte, I mean."
"No, Sir ! we get the w
Percy Bing thers."
Where the what ers orgot that hat he was not in an English in
Wintages, and prescribe peculin
Wands of dry champagne.
"What wines have you?"
"We've port wine, Sir
 "Give me a botle of stherry
" Yes, Sirr, of couste, Sir."
In a few minutes the gory headed factutum returried wit
whe wiun, and uncorking it with a tremendous flourish of armm

"What the mischief do you mean ?" demanded the young
ficer rantrily.
wanted for to make certain that yer humur was
 hat hastily withdrew






 dow whereat he reclined. The waiter had ed
cagca in exphotulating with Lanty Kerriyan.
"D.n't run eer head of against a stone wall, Lanty, aric,
Be fof to Knockslin, and don't let the grass grow ulider ye
feet:"





It inn reard wa a parcel
"And who is Miss Joyce e" said Percy, intensely amused.
"ol mother of Moses! he doesn't know the beautifulest
outhur in the intire counthry," exclaimed Lanty hastily

 "And you have a parcell for her?"

 "I'st to bad." thoumht Binghim, "to have the poor girl



"It's five mile, yer honor, an'-"
"There's sixpence a mile for you. Go!"
And in another instant the parcel-laden Lanty had taken to Percy Ring ham antacked his breakfast upon the following
Poruing with a gusto hitherto unknown to him. 11 wonder

 pepper. This ought to be a good trout day. One more
arher. By Geory. it the colonel gaw me pertorm this
teakfast, he'd make me exchange into the heavies."
 im in from the wo
"put up" his casts.

 will bring genter and craft peawal
nost familiar intercourse.
 the habitabie globe, were represented whty."
Colds. "This ought to be a good day, Lanty
 "Finneqgan
Ue onticer
"Pether








 "ockets, hut he the mortial frost
wisky and hank it every dhrop."
"I must endenor
"Ketch him!" exclaimed Lant, indighed Percy Binghan
 "What do the tyent tor the whale that swallied Juno."


 Lanty Kerrigan was told off as cicerone, guide, philosopher
and fricnd.


 " A cook it was her station,
Tho first in he rish nation,
une stced slash away to the co
 inrough a narrow mound he
trians, in the direction of the fishing-ground. It was a ago




## ghimit catays gnpartment.

My Dear Nirces. - I am going to give you a few hints on bread making, which should stand at health and happiness of the family depend in calculably upon bread, "the staff of life." There fore, undoubtedly, you all strive to excel in that duty. There are many different modes of making bread, each of which requires great attention and care. Yeast bread is considered the standard bread, and is perhaps more generally found on every table than any other. Hence it is importan to know how to make good, sweet yeast bread Good flour is the first indispensable; then good, lively yeast, either yeast cakes or botlel following is
 Sift in a tin pan four pounds of flour bank it against the sides, pour in one quart of milk and water, and mix into it enough flour to form a thin batter; then quickly and lightly add one pint of milk, in which is dissolved one ounce of salt and
one and three-quarter ounces of yeast; leave the remainder of the flour against the sides of the pan; cover the pan with a cloth and set in a place free from draught for three-guarters of an hour; then mix in the rest of the cour until the dough will leave the bottom and sides of thi pal, wlet stand two and all hieses, to be cut in turn into twelve purts pench This gives syuare pieces about three and a half inches thick each corner of which is taken up and folded over to the centre, and then the cases are turned over on a dough-board to rise for half an hour, when they are put into a hot oven that bakes them in ten minutes.
The ingredients may be divided into smaller proportions, so that a single one-pound loaf could bo baked as well as four one-pound loaver

Minnie may.

## recipes.

My Dear Minnir May,-I have a good recipe 5o offer for the benefit of thonse interested in your elieve her agony while suffering withy a carbuncle mit the back of her neck, and aftoriled her wonder.
ful relief. For boils, and sores of almost any kind, it will be found of great service :-
 Burgundy pitch, 4 oz; , Yenice turpentine, 4 oz,
resin, $\ddagger$ the; oil of lavender, 2 oz.
Nlix all together
 recipe alone worth many times the price.
Yours affectionately, MYRA.

Beat the yolks of eight eggs and the whites of
wo auld mix with them half a pound of warme two, and mix with them haff a pound of warmed
butter and the same of loaf sugar, pounded ; put ter cups or moulds, lay at the bottoun orange mar manale or preserven aprieots, pour the pudding
mpon the sweatmeats andid bake from fifteen t "ipon the sweatmeats and bake from, fifteen
twenty minutes. This is very
rich, and should twenty minutes. This is very rich, and
Dissolve four teacupfulus of arrow-root in a quart
of fresh milk, tooil with a few bitter almonds pounded up, or peach leaves to give it a flavor, i
oun wish stir it well while it is loviling , or unti tit beconnessis smooth latter; when tuite conll, and six eggs, well beaten, to the bater, then mix with
it a quarter of a pound of powdered sugar (if

 peei int the
The puding s.
the table cold.
kentucky potatoos.
Take raw potatoes; pare and slice very, thin
place tlicul in a puding dish; cover well with hiaik ; add pepper aul salt, anil bake until nicel hrowned; so no

Vegetables should wegerables. Vegetables should never be washed until imme nade almost worthless in flavor by dipping it in water some hours theore other vegetables through the washing process. They
ill just ready for boiling
ashing colorbd fabrics
Before washing almost any colored fabrics, soak
them in water, to each gallon of which a spoonful
h oxgall has been added. $A$ teacupful of lye in a pail of water is said to improve the color of black oods. A strong tea of oc
he color of French linens.
statr carpets.

Stair carpets should always have three or four the edge of every stair, which is the part where an inch or wear out. Two long as the carpet is wide, and plan, so easy of executi in breadth. This simp stair carpet half as long again as it would las without the strips of paper.
Dear MinNie May,-You will confer a kind nay do. I have been a terrible sufferer from corns, but am happy to say, by using the follow
ing recipe, I have cured them :ing recipe, I have curet some small bits of beef vinegar through the day, and bind a piece on each corn at night, drawing a stocking on to keep them in place. The same pieces of bee can be used the ext night. A week or ten days is suiece,
remove any ordinary corn.
Your nane Grey.
Dear Minnie May,--Though I have seen many failed to find one which I am very anxious to ge -ammonia jelly cake. Your attention to this will
Litzir Dafronon.
nuch oblige. [Can any of my nieces furnish one? -M. M.] ro take rust out of sterl
If possible, place the article in a bowl contain-
ing kerosene oil, or wrap the steel up in a soft ing kerosene oil, or wrap the steel up in a soft 24 hours or longer; then scour the rusty spots with brick dust; if badly rusted, use salt wet with hot vinegar; after scouring, rinse every particle
brick dust or salt off with boiling hot water; dry thoroughly with Hannel cloths, and place near the fire to make sure; then polish off with a clean flan nel cloth and a little sweet oil.

Take
Take a pail of hot water; throw in two tablehouse cloth-an old coarse towel does splendidly -and wash the painting; do not use a brush; when
washing places that are extra yellow and stained soap the cloth; then sprinkle it with the dry powdered borax, and rub the places well, using plenty
of rinsing water; by washing the woodwork in this way you will not remove the paint, and the
borax will soften and make the hands white-a borax will sorten and mak
fact well worth knowing.

Apropos of the paragraph that appeared in this rom a green rep sofa, It Jady writes :-
"My niece had a black velvet sack, one sleeve which was turned a royal purple by a bottle of wine being spilled on it. Holding it over the
steam of carbonate of ammonia restored the color entirely."

As soon as the felon can be located, place over
he spot a Spanish-fly lister, the size of a silver he spot a Spanish-fly hister, the size of a silver
five cent piece. Let it remain from six to eight hours, at the cond of which time the felon will be moved with the point of a needle.

All fruit cans should receive immediate atten-
tion as soon as they are emptied, and should be emptied as soon as opened. They should be careemptied as soon as opened. They should be care-
fully cleansel, hried, and then put away in a dry
place until wanted for future use. In no other Way cilut they le made to last well and loning Never
put your canned fruit in a cool, damp place ver put your canned fruit in a cool, damp place, but
always in a dark, dry place; if such place is cool,
so much the better; if not, it is better than in a
damp place. Cans that have been properly cared or will last a series of years, good as new, especially tin ones, and these I I prefer to put apples,
pears, peaches, strawberries and tomatoes in pears, peaches, strawberries and tomatoes in.
high swing shelf, in a dry cellar that has plenty
ir, is a good place for tin cans when filled air, is a good place for tin cans when filled.
dark cuppoand is better for glass jars, when filled s light is injurious in its action on glass. To ope ans sealed with wax, dip the end fastened with
wax into hot water, and soon the cover of the can nay be removed with ease; remove all the wax
rom the can, and cover so that it may not from the can, and cover so that it may not ge
nixed with the fruit, and so spoil the flavor. мотня.
This is the period when moths begin to fly, and hose who have not packed away winter garment
and furs should lose no time in doing so. Beat the articles thoroughly, and expose them to brigh unlight and air for several hours. Seal them up
in tight paper cases, or put them away in clos in tight paper cases, or put them away in clos
trunks, with plenty of gum camphor, pepper, to
bacco, chips of Russia leather, or cedar dust.

Sour Milk and Soda.
I presume I can say nothing under this hêad
that has not been said before in these columns. That has not been said before in these columns,
But I perceive that there are experienced house keepers who have yet to learn how to use soda with sour milk. A woman of double my experience
told me, not long ago, that she had now got so that he could make sour milk biscuit that her folk would eat. Now she mashed the soda and mixed it with the flour, then stirred in the sour milk or
butter-milk. Before this she "puts the soda in
 spotted. This would not happen, I I am sure, if
the right quantity of soda was taken, and if the right quantity of soda was taken, and if the
soda was carefully dissolved in water, either warm or cold, stirred quickly and thoroughly into the sour milk, and rapidly beaten up with the flour.
In giving directions to another, I think I should alvise a thorough incorporation of the soda with the flour, after both soda and sour milk have been exactly measured. For then the effervescense (or foaming) would aif take place in the dough, the gas be light. A careless cook ${ }^{\prime}$ will perhaps mix he ing and settling again to quiet, she is perhaps get ting her flour and hunting up her rolling pin, and of course she doesn't "have good luck" with her
biscuit. If she would "heveryther the buttered tins, and then measure out a level eraspoonful of soda for each teacupful of sour milk,
or rounding teaspoonful for each pint, then dis solve entirely the soda in a cup by itself, and stir-
ring it quickly into her sour milk ring it quickly into her sour milk or butcr-mi
(sour of course), pour the whole into the flour be(sore the foaming fairly begins, and work it to-
fother gether quickly-there would be no streakes and
no heuviness. But the best thing to do with bak. ing soda, is to avoid its use as far as possible, for accurate measurement is impossible so long as there are varying degrees of suurness in milk, and
different sized spoons and cups: and good things, different sized spoons and cups: and good things,
and plenty of them, can be made without any soda.

## How to Keep Prints Nice.

After all there is nothing so nice for household wear as calico. And now, when prints are so cheap, there is no excuse for wearing dirty, slat-
ternly looking dresses at home or abroad,' for a nicely done up calico is far preferable for any ocsess is only fit to be seen before it has been washed, but with a little pains they may be kept looking nicely for a long time. Washed carelessly,
starched stiftly starched stittly, sunned a day or tivo, and half ironed, it is not a very comely sight. But if
quickly dried in the shade, very thinly and evenly starched and ironed on the wrong side, so that it will not shine, it will look like a new dress for a soak in the suds in washing. They should be sorted over as carefully as are white clothes, the time, and washed out and thrown directly into a tub of clean, cold water, soft if possible. A little talt in the water helps to set the colors. should then be rensed again in clear water, starched, and hung where they will dry quickly, in the
shade, and with the wrong side to the light. This to prevent fading, and that if any streaking from
thé funiinus of the collurs appears, it may be on the wrong side. Salt will nearly always set blue so that it will not fade. For pink, reds and greens
a little vinegar in the water is best. To keep
black calicoes from getting rusty, wash them the biack calicoes from getting rusty, wash them the clothes have been boiled; it should be strained, as, indeed, such suds always should. Never rinse calicoes in the water in which white clothes have been insed, if not unavoidable. For very light print ear starch is best, the cheaper every purpose. For dark goods, hour starch is and aicely. I have my boiling water in the starch pan
on the stove, stir Hour smoothly with cold water to on the stove, stir flour smoothy wadith coll water
$a$ thin paste, and then add gradually to the boiling water, stirring as I add, so that there may not be lump in it. Boil a few moments and add
tablespoonful of salt and one of kerosene to each galtablespoonful of salt and one of kerosene to each galwash flour that has been moistened to a dough, in
cold water, which will leave the dough without cold water, which will leave the dough without
any starch in it, and then boil the starchy water any starch in it, and then boil the starchy water
and use as before. In ironing very narrow ruffles on aprons, etc., I always iron them down flat, and then at my leisure, flute them on my finger. It is
less work and they look well. Calicoes should not be dampened more than an hour before ironing, as it not only may make the colors run, bu
takes out the starch. White clothes iron much easier to lay damp over night; it pays to fold them smoothly.

## A Mother's Love.

What is there on the face of this wide earth votion, so forgiving and so true? We have no othe loves but what are exacting. The love of a brother,
sister, husband or friend, expects more or less sister, husband or
attention and reciprocation of affection ; but a mother asks not for recompense, seeks no praise. Ald through our childhood up to maturer years, and through anter we have left her side and strayed from her blessed teaching and advice, her heart still goes out to us, and prays for us that we may be
useful and honorable, and that our footsteps may never go astray.
What is there that will touch one's heart like a mother's love, so tender and so enduring? A man who forsak life is sometimes called back from th depths of degradation by the memory of a mother' love, a mother's prayer, or some recolection of his innocent boyhood, when a mother's in no dwell among the living, but in the "secret place of the Most High" her love and care may still ex tend to us, may still smouth our pathway and help
to chasten our hearts with kindness toward one another.
I have often thought that when my work on
俗 carth is ended, when 1 lay down my burden and
have been rewarded for the good $I$ have done, howhave been rewarde have been, no joy could seem
ever small it may han
holier or purrer than the consciousness that I had holier or purer than the consciousness that 1 had
smoothed my mother's road through life, and striveop smoothed my mother's road hrough ohe could 1 butt
to repay the debt I owed her. Oh
impress it on the minds of children to be kind to to repay the debt owd of children to be kind to
impress it on the minds of
their mothers and solicitous about their confort, their mothers and solicitous about their comfort,
how many care-worn hearts and silver haias would go down in happiness to the grave! Blind and dea to all duties of conscience must they be who
carelessly wound a mother's loving heart.

## -

Good Nature.-One cannot imagine any quality of the human mind whencc greater advantages can is a social being, not made for solitude, but conversation. Good nature not only lessens the sorrows of life, bub iaty oreven wit. It gives a pleasing
agreeable than beauty, expression to the countenance, and induces a multi-
tude of the most amiable observations. It is intude of the most amiable observations. It is indeed the origin of all society. Were it not forgoon
nature, men could not exist together, nor hold intercourse with one another. Good nature is an ap titude of the mind, on which objects aet in an ex sal benevolence to the whole creation. In it lies the foundation of all generous feeling to our neigh bors, and sympathy with every member of thich is the attraction of the mental universe. It possesses a power, the progression of which will gradu ally batrish slavery, tyranny, war, disease, and
vice, from the vital world, and unite mankind in one great brotherhood.

## The Farmer's Wife.

Oh! give me the life of a farmer's wife
In the fields and woods so bright, 'Mong the singing birds and the lowly herds, The note of the morning's heavenward lark Is the music sweet to me;
And the dewy flowers in the early hours, The gems I love to see

Oh! give me the breeze from the waving trees, The murmur of summer leaves; And the swallow's song as he swims along, The plowman's shout as he's turning out His team at set of sun; ; by the fire-fly's lig Or his merry 'good-night,' by the
When his daily work is done.
And give me the root and the luscious fruit And the bread so light, and the And the milk so pure and good ; For sweet the brat of labor 1s, When the heart is strong and true,
And bleessings will come to the hearth and home,
If our best we bravely do.

## The Hen and the Honey Bee.

## The

A lazy Hen-the story goes--
Loquacious, pert and self-conceited,
Espied a Bee upon a rose,
And thus the busy insect greeted:
"Say, what's the use of such as you,
(Excuse the freedom of a neighbor !) Who gad about and never do
"T've marked well for many a day',
In garden blooms and meadow clover; In garden blooms and mealow clover
Now here, now there, in wanton play;
Whil I A faithful wife-the best of mothers; About the fields you idly roam,
Witlout the least regard for others.
"While I lay eggs and hatch them but
You seek the flowers most sweet and fragrant, And, sipping honey, stroll about " At best a good-for-nothing vagrant !" "Nay," said the Bee, "Y ou do me wrong ;
l'm useful, too; perthap y you doubt it,
Because-though toiling all day long-Because-though toiling ali day long
I sporn to make a fuss about it! "While you, with every egg that cheers The news in other people's ears,
Till they are deafeied with the clamor :

## Come now with me and see my hive,

 And note how folks may work in guiet;To useful arts much more alive
Than you with all your cackling riot!", l'envol.
The Poet, one may plainly see
Who reads this fable at his leisure, Is represented by the Bee, Wh representes utility to pleasure;
While in this self-conceited Her We note the Poot's silly neighbor,
Who thinks the noisy "working-men" Who thinks the noisy "working-m.
Are doing all the useful labor.

## John G. Saxe.

Origin of Pin-money.-Towards the close of the fifteenth century, an epochi that marks a tran
sition style in the dress of ladies, pins were looked upon with great favor as new year's gifts. The displaced the old wooden skewer, which no effor
of skill of skill, no burnishtly appendage. Pins in that convele age of the world, were luxuries of high
simple price, and the gifts was frefuently compounded for
in money-an allowance that became so necessary in money-an allowance that became so necessary
to the wants of ladies of quality, that it resolved it self at last into a regular stipend, very proper1y
called "pin money." We still keep u* the term called "pin money." We still keep uap the term,
although now that pins are as cheap as dust means every thing or any thing except that which it originally implied.

## How Kid Gloves are Made.

 Gloves have been in use from very early times,eing mentioned by such ancient writers as Homer and Xenophon. During the middle ases they were worn by certain officials as a mark of dignity. But as civilization advanced they gradually becam early part of this century there was no positive early part of the cut and shape of kid gloves, all
regularity in the being left to the judgment of the eutter, who hai no systematic pattern. In 1834 Xavier thour, doing
vented a new method of cutting out the kid yented a new method of cutting out in system is ex
it with geometrical precision. His it with geometrical precision. Hely elwo sizes, and cutting ten widths to each size, in all making 3 have uade numerous improvements in shape, finis and stitching, and now the best makowing demand reacho is such that the price of skins have ad
which wanced fifty per cents in the last, fifteen years.
The term "kid," however, is a mere technicality as the quantity consumed annually of leather as the this name is largely in excess of what could be supplied from the skins of all the young goats that are annuaily sexaugely used. One of
other thin skins being extensivel the Newark stores by actual count has retailed 472 pairs in six days, and a certain New York house
retails $\$ 300,000$ worth annually. The value of retails $\$ 300,000$ worth annually. The value of
those manufactured in France is estimated at fifty million francs, and there are large quantities made in Italy, Germany and England, and a compara-
tively small amount in the United States, at Gloversville and New York City. As the sewing of a single pair of ladies' kid
loves requires five thousand stitches, for which gloves requires hive thouscans pay about ten cents,
the continental manufacturers par it can readily be seen that this industry cannot be casrried on extensively in this country. The seam. eldees to be united in the jaws of a vice which terminates in fine brass teeth like those of a comb, being held by a knot to prevent ripping, which ased to be a frequent source of trouble. It is necessary that the animal should be killed young, beciuse as soin as it begins to feed on herbage
skin is impaired for this purpose. Egys are ver extensively used in preparing the skins-itis estimated that $60,000,000$ are annually used in England is applied to the outer skin with a brush by hand; if
the skins the skins were immerged the inner port
also receive the dye and stain the hand.
France excels all in the variety and richness of
her colors, which is her colors, which is attributed to her atmosphere and water-producing 200 different shades. La-
dies' sizes run from 5 to 8 ; gents from 7 to 11 ,
misses from misses from 4 to $6 \pm$. Gents', are longer in the finyers and higher in the wrist than those of ladies' of
like number, though they are alike in width, and the misses'gloves are narrower.

## Home Interests.

One of the most important lessons that can be impressed on the heart of childhood is that of the
value of time. Indeed it is a lesson that none of us in riper years ever learn too well. Those who have much to do and who arrange most keenly alive to the worth of every golden moment. It is this very class who always find. time to keep every engage mint and in their engag
tual to the hour and the minute ments. With them every portion of the day has its allotted task or recreation, and these are so
adjusted to each other that often tasks become adjusted to
recreations. Idle and purposeless people, Iunacrecreations. live a methodical and efficient life,
customed to
have no conception of the exquisite satisfaction have no conception of the exquisite satisfaction
those enjoy who have something to show for every those enjoy who have something to show for every
day they have lived. Repose earned by toil is doubly sweet. The mere pleasure-seeker knows
little of real pleasure. This knowledge is reserved little of real pleasure. This nowledge is reserved
for those whose hours are nobly and wisely spent. They who seem to have the most leisure because they- have nothing to do are least to be depended on in any enterprise that demands promptness and
sustained effort. Thinking their tasks can be per formed at any time, they suffer precious moments to pass in idleness, until the golden opportunity to
do is gone. In all societies and communities we find it true of work, that " to him that hath shall be given"-work that demants immeliate and persistent labor is given to those who alrealy have
the most to do. Parents may begin very early to
form in their children the habit of improving their time by imposing upon them stated tasks，and re－
quiring their accomplishment within a certain period．For example in the matter of dressing in the morning，soms children will be an hour in get－
ting ready for breakfast，when 15 or 20 minutes is ting ready for breakfast，when will dwadle over their
quite time enough．Or，they wist
lessons and be twice or thrice as long as need be lessons and be twice or thrice as long as need be
in learning them，and thus have no time for play． in learning them，and thus have no time for play．
Indulgenee in this way of doing is very injurious Indulgence in this way of the habits of promptitude and regularity that are formed in children who at－
tend large schools and are compelled to observe the tend large schools and are complled to observe
rules which are laid down for their conduct are intrinsically valuable as all they learn beside．
It is not easy for those who have no outward
pressure that forces them to keep account with pressure that fores moments to mark out a programme and work their to it，but a strong will can do even this，and up to it，but a strong will can do even this，and
when once the habit is formed life will possess new
value value．To professional and business men and
women there is scarcely anything more an noying than the interruptions they often
suffer during office and business hours from incon－ siderate and idle friends and acquaintances．If ing time in getting under headway again，stop at
ing
itations just long enough to disharge and receive stations just long enough to discharge and receive
passengers，the rate of speed would be indefinitely passengers，the rate of speed would be inderinter
increased．But when，worse than stopping，it is entirely turned from its track and switched of
upon a another，the loss of time is irreparable．The upon another，the loss of time is irreparable．
least and the greatest courtesy those who set least and the greatest courtesy those who set n
value upon their own time can show to those wh do，is to respeot the privacy of the hours set apart
to labor．Students，authors，ministers，editors， to labor．Students，authors，ministers，editors
artists，appreciate no delicacy of friendship，no artists，appreciate no delicacy of friendship，no
courtesy their friends and the public can bestow， of greater worth than that shown by
hours of intellectual toil undisturbed．

## Trades for Women

 All parents should bring up their children in is just as necessary for girls to learn some employ ment as it is for boys．，Marriage is no longer tho ＂chief end and aim＂of sensible girls．It is no every faculty of mind and energy of character ar necessary to build up a happy home．Every woman should be able to earn a support
independent of her husband，should it become independent of her avenues to work for women are widening，anct the approach to the same services rendered by men is slow but sure，and blamable are parents who do not give
their girls the means of controlling their circum－ stances by a well－defined occupation．We have in mind a young woman，a graduate of a popular
seminary who was left，by the death of herhushand， with a farm and but little money．With alvice from her father she has carried on her farm，laying by a surplus every year，hiring foreman to whom she gives wages and a share of the responsininity at her marriage，and is educating her chintren til they are old enough to leave home－an example
of the superiority of intelligent power over the merely physical．

## Flowers and Flower Garden：

 It has been said that few things tend to expressthe character and fortunes of individuals mor the character and of the window－blinuls，and the ${ }^{\text {brightness and ceanliness of the windows of }}$ dwei cannot but feel，when this is admitted，that the same line of reasoning will be allowed with regar
to tlowers．If wuin be in a narrow，contined thoroughfare，and see upon its window－sills bright rows of pots filled
with gay geraniums，and well－formed fuchsias we suppose that surely in that house there must live
some one whose mind is not wholly choked up and deadened with the dust and toil of the great city one to whom the links are not yet entirely
severed，which bind the heart to the loveliness of nature，and who still appreciates，with a tenter
care，the sweetest and most beautiful of her crea care，the sweetest and most cactur waling a saldler
tions．Or，perhaps，our thoughts，
turn，may magine that some lone－licarted creature， turn，may imagine that some lone－hcarted creature，
who may have been fettered to his chanler for who may have been fettered to his chamber for
months，or years，by lingering maladies，Hies from months，or years，by ins and thoughts，and secks
his own racking pains among those very flowers，which seem so gay，itud
indicative of youth and happy hearts to us，a so－
lace nod delight，which simple things like these
often render to the wretched－hearted and weary
Wherever flowers are seen，carefully tended hey be sure there will be found people of a refined mind．No one who has not a gentle and a tende heart can truly love flowers；and any one wh really does so，worships，it may be
the Eternal One who formed them．

## reat Your Boys Well

 Some mothers try to reach the eoft side of the boy＇s nature with a kind word；some with a harsh word；and some with an old＂Npper．Some moth lubber，get right out of here and stop that outlandish noise，will you！Don＇t you know better than to whistle in the house？You are always in the road．Go way，and don＇t let me see you again
to－day．＂Now Jim，John or Pete－whatever his name may be－will withdraw，and boy－like will say nothng；If we could reach his thoughts it is
big thinking．
more than likely they would run in this channel ＂Now why can＇t mother give a fellow a kind wor nce in a while！I know I ain＇t the worst boy in
the world，but she appears to think so．If I am always in her way why does she always call for me when she wants a pail of water or an armfull
of wood？Why ain＇t I in her road then？It must be a disgrace to be a boy，for she and sisters are always snubbing me because I am a boy．I wis
I was away from home，then I could have a few was away from hom，then coun with a view minutess peace．If he goes aown own the raad，it is very likely that he will not find the purest and
best company in the world．The boys with whom best company in the world．The boys with whon
he will have to associate have been through the he will have to associate have been through the
same mill tiat he has，and being deprived of the
home home influence which they should have，they are
not exactly model boys．They will swear，smoke， not exactly model boys．They will swear，smoke，
chew and play cards；and if $J$ ，the subject of our chew and falls into the same ways，who is to blame sketch，falls and sisters，for heavern＇s sake，make you
Mothers
hame attractive for your boys．Don＇t find fault with them every time they stir，because boys are y nature a noisy set．Who would have then therwise？＇Treat your boys well and give them much at once，or it will act in the wrong direction． five them kind words，and you will never pais ny sleepless nights on their account．Arboy whe
＂I＇ll Pay You for That：＂
A hen trod on a duck＇s foot．She did not mean to do it，and it did not hart much．But the danck said ：－＂Tll pay you for that ！＂So the duck flew
at the hen ；but，as she did so，her wing struck an ald gones，who stood close by．＂I＇ll pay you for
ollat？＂cried the goose，and she flew at the duck； but，as she did so，her foot tore the fur of acat， Who was just then in the yard．＂I＇ll pay you for luta as she did so，her tail brushed the cye of a sheel，who was near．＂I＇ll pay yon for that！＂
said the slice，and he ran at the cat；but，as he did so，his foot hit the foot of a dog，who lay in
the sun．＂I＇ll pay you for that ！＂cried he，and the sun．＂I＇ll pay you for that！＂cried he，and
he ran at the sheep；but，as he did so，his leg he ran at the sheep，，hut，as he did so，his leg
struck an old cow who stood by the gate．＂I＇ll
pay you for that＂＂cried she and she ran at the pay you for that ！＂cried she，and she ran at the dog；but，as she did so，her horn grazed the skin
of a horse，who stood by a tree．＂Ill pay you
for that ！＂cried he，and he ran at the cow．What a run there was？The horse flew at the cow，and the cow at the goos，and the dog at the cat，and
the gose at the duck，and the duck at the hen．What a noise they made，to
the
he sure ！ be sure！Hi，hi ！What is all this＂＂cried the
nan who had the care of them ；＂I cannot have man who had the care of them；；＂cannot have
this noise．You may stay here，＂he said to the
hen．But he drove the duck to the pond，and the hicn．Put he drove the duck to the pond，and the
coose to the field，and the cat to the barn，and the heep to his fold，and the dog to his house，and
the cow to her yard，and the horse to his stall． ＂I＇ll pay you for that！＂said the man．

They hal becn married five months，and she was
urning the leaves of a book，when she espied
 previous to wedlock，and said，＂‘＇Tis but a little ＂I flower，but oh ！how fondly dear
I should say so，＂he growled；＂that＇s a repre
entative of a five－dollar bouluet；and to buy it sentative of a five－dollar bourquet；and to buy it I
walked in to town and deprived myself of luncheon
for a week．＂

## Hacle ©oms gleparturat

My Dear Nephews and Nieges，－I need not k if you formoten this month，for the umber of heatiful letters that I have received ells me different．It is indeed highly gratifying recive so many complimentary，and apologetic otters from my pet nephews and nieces．Allow $m$ to congratulate many of you upon the well written and composed letters which you write．Well，how did you all spend Queen＇s Birthday？I trust enjoy ably ；there are so many nice amusements for th young to join in，and for the old to admire． have much pleasure in complying with a nephew request，which is to offer a prize for the three best original puzzles，to be given in by the 20th．Fint a handsome chromo ；secona，for the largest mu－ ber of correct answers to June and July puzzles，a beautiful chromo．These are good premiums，an from the keen spirit usull liver of oltaining lively competition ；so those them will＂ first you don＇t succeed，try，try，try again．＂

## PUZZLES．

## sl－Riddle．

Three to stand and
A line to guard them one by one
wooten head and an iron nose
From a farmer＇s daughter．

$$
82 \text {-hidden places. }
$$

As he left the hut Royal exclaimed，There is happy home！ 2．The hat was trimmed
extended around the crown
3．Boys and girls ride swiftly on sleds．
4．After bowing low Ellen recited a poem．
5．Newell，I made a warm scar
My first is surrounded by water． My sec
My third is a musical instrument． My fourth is the plural of something that ha My legs，a back，but of islands in．Melliterranean
My froup of

$$
\begin{aligned}
& \text { sea. } \text { My last is a common measure. }
\end{aligned}
$$ first word，ano the name of a nation of America S4－Riddle．

I to a maiden doth belong，
Deprive me of my head， o man and thoug instead John Mackay．
85-numerical eniema.

I am composed of 20 letters．

My 1， $4,16,6,7$ ，is a hill．
My whole were the
statesman of Englan
86－ayagiram．
$\qquad$

$$
\begin{aligned}
& \text { The words, when put one under the other, and } \\
& \text { read diagonally across from the top to the bottom, }
\end{aligned}
$$ read diagonally across from the top to the bottom， that is，commencing with the first letter of the last word，form the name of a nation of Americi，

From our nephew，II Pirek．

A noxious creature then you＇ll have Again behead，though odd it may seem，
And then you＇ll find me in a streann．

My $7,11,20$ ，is a personal pronoun．
My $3,15,8,17$ ，is a kind of grain．
My $14.11,5,1$ ，is a companion．
My $18,10,9$ ，is a plaything
My 18， 8,2 ，is to attempt．
My 12，13， $19,8,11$ ，is a kind of incense．

Amy hyt rafagencr eerv eb，
Kile eth sore－dub no het tere
Kile etth sore－cub no het ter
Dna hyt reeyv trueiv nisel，
Hiwt a strule rome luylmise
Hiwt a strule rome bulmise． $\begin{gathered}\text { Kitry } \\ \text { Lowe }\end{gathered}$


I am composed of fifteen letters.
My $3,11,10,15,1$, supply the treasury of the
country. My country. $4,8,8,7,5$, an animal much to be dreaded. $\mathrm{My} \mathrm{14,9,4,13} ,\mathrm{is} \mathrm{to} \mathrm{spring}$.
$\mathrm{My} 1,6,14,2$, is a kind of fish.
My 1, $6,14,2$, is a kind of fish.
My whole is what parents should always do
90 -square diamond puzzle.
A consonant, a fuss, a dress, a plant, successiul,
name of a card, a vowel. Read down and across a plant much in demand.

$$
91 \text { - SQuare word. }
$$

A measure of wine; a notion ; enclosures for
Cattle ; free from pain. $92-$ Square word. A plant, surface, behind, appendages to the
head. 93-square word.
A precious metal, a moulding formed like the
letter S, part of a book, and to dare. 94 -square word.
A kind of grain, a medley, a cleft, and a mark $\begin{gathered}\text { Kitry Lowe. }\end{gathered}$
Answers to May Puzzles.

 ever-yreen, fox-glove
Benjamin Frankliu,
To.- Speak gen

They have enough they ma
Without an uukind word.




Names of Those Who Have Sent Cor rect Answers to May Puzzles.




 All communications must be in by the 20 th in order to be
inserted. "A Litrie more animation, my dear," whis-
pered Laly B to the gentle Susan, who was
walking through the thadrile "Do let me manpered Lady B to the gentle Susan, who was
walking through the quadrille. "1o olet me man-
age my own business, mamma," replied the provident nymth; "I shall not dance my ringlets out
of curl for a married man ""f course not my of curl for a married man," "(1f course not, my
lover, but I was not aware who your partner
was."

## Uncle Ned's Defense.

 My bredren an' sistahs, I rises foh to 'splainDis mattah dat you's talkin' 'bout-I Dis mattah dat you's talkin' 'bout-I hopes to make it plain.
I's berry sorry dat de t'ing hab come befo' de
Chu'ch, Foh when I', splains it you will see dat it am nuffin
My frien's, your humble speakah, while trablin' here below, Hab nebber cared to hoard up gold an' silver foh to show ;
We's only stoppin' here a spell ; we all hab got to An' so Id I always tries to lay my treasahs up on high. Dar's jest one t'ing dat pesters me, an' dat am dis, you see,
De ravens fed old 'Lijah, but de critters won't feed me.
Dey's got above dar business, an' jest goes swoop$\mathrm{An}^{\prime}$ ' neber turns to look at me a-waitin' on de groun'. I waited mighty sartin like; my faith was pow'ful strong;
I reckoned dat dem pesky birds would shuahly be along.
But oh, my fren'ly hearahs, my faith it cotched a
fall, Call, $\begin{aligned} & \text { De aggavatin' fowls went by, an' nelber stopped } \\ & \text { at all. }\end{aligned}$
.
Dé meal an flou' was almos' gone, de pork bar'l De meal an fow, An' so one day I'cluded dat I had bettah go To Brudder Johnson's 'tater patch an' borry jest few.
'Twas evenin' 'fore I got to start, I had so much
to do.

It happened dat de night was dark, but dat I didn't I knowed de way to dat ar patch, 'twas easy nuff An' den I didn't cay' to meet dat Johnson, foh 1 knowed
ass me bout de mess ob 'taters dat
I got de baskit full at las', an' tuk 'em on my back,
An' den was goin' to tote 'em home, when some
It'ought it was a camnon, but it jest turned out
to be
Dat Johnson's ole hoss-pistol a-pointin' straight at
I tried to argufy wid him, I 'pologizell a heap,
But he said dat stealin' 'taters was as mean
stealin' sheep. . take lat ar'; it had an ugly
soun',
The olly toh me to do was jist to knock him
down.
My bredren an' sistahs, de story am all told,
(Ob course I pounded Johnson till he yelled foh me
to hold)
An' now I hopes you 'grees wid me dat dis yere
case, an' such,
case, an' such,
Am berry triflin' mattahs to fotch befo' 'le chu'ch.

## HEMOROUS.

A Lay of True Love.-As a young man was
looking over a larrel of eggs received at a grocer on Newark avenue, Jorsiy Gity, about a month ago he fou
of the eggs
" If

If this you see, young man,
IVrite just as soon as you ca
Write just as soon as you can,
And let me hear from my favo
And let me hear from my favorite egg ;
This great boon I humbly beg
This great boon I humbly beg.
The youth immediately wrote to the adilress, inclosing his photograph, and received a reply and
ricture from the writer of the lines. The corres ficture rrom the writer of the lines, The corres
pondence was continued to the satisfaction of both persons, who are to be married next month. It is said the young laly is the daughter of a wealthy
farmer, aud wrote the lines in jest, never expect. farmer, and wrote the
ing to hear from them.
"Ho: all ye dyspeptics," says a patent medi-
cine advertiseinent. If all the dyspeptics would cine advertise inenit. If all the dyspeptics wou
hoe regularly their number would be reduced.
"Ler me see," says the nurse of a sick man,
"the doctor saild one teaspoonful every ten minthe doctor sail one teaspoonful every ten min-
ates; that makes six an houp, say seventy-two
during the night during the night. I shall give him seventy-two
spoonfuls right away, and have a chance to get spoonfuls right away, and have a chance to get a
little sleep myself.", A hisband finding a piece broken out of his plate and another out of his saucer, petulantly ex-
claimed to his wife: "My dear, it claimed to his wife: "My dear, it seems as if
everything belonging to you is broken." "Well,
yes yes," responded the wife; "even you seem to be little cracked.
A dandy of twenty-six having been termed an
"old bachelor," appealed to an elderly gentleman "old bachelor," appealed to an elderly gentleman
to decide whether he should be called old or not giving his age as twenty-six. Said the elderly gentleman: "It is owing to how you take it. Now,
or a man it is young enough, but for a goose it is rather old."
Why is Gibraltar one of the most wonderful
places in the world ? Because it's always on the
rock, but never moves. "، Make your home his friend your hovene if to do so so you have to stay away from it, as I do."
"Equality means," says a certain writer, "a
desire to be equal to your superiors, and superior to yourr equals." your superiors, and superior Some young r man by snowballing his house.
and caught a younge rushed out and caught a youngster who was standing one side
and looking on, and thinking him to be one offenders, began to administer a flogging. But, to his surprise, the harder he whipped the harder
the boy laughed, until he stopped and sount an the boy laughed, unsil he stopped and sought an explanation. ing because you are awfully sold; I ain't the boy!" A Pleasanter if not a Berter Job.-One of
the Methodist ministers of this city was, days ago, called upon by a Germany was, a few days ago, callea upon by G Grman and requested had just died. Brother L-, with his nsual ur-
banity, consented, of course, and the services were held, with due dccorum and solemnity. After the funeral was over, the forlorn widower stepped up tierman-"Vell, Mr. charge for burying my wife ?"
Preacher-"Oh! I do not charge anything for Preacher-"Oh! 1 do not charge anything for
attending funerals." German-(smiling significantly)-" Vell, now,
this is very kind of you. But shtop a minute. In a few days I give you a better job than dat."
Proacher-"Why, what may th.t be " Preachor-"Why, what may th.t be?" "Oh fery much better job than dat.
German- "oh
I he's going to get marrmed again."-Roch-ster Ex. press.
WATED.-The following advertisement is by a situation, by a strong, active American youth of seventeen, with plenty of muscle, vim, and health.
Not afrai, 1 to kucklo Not afraid to kiuckle down to hard work of any
kinll; is well celucatel, and has a good knowledge of Latin. Anbistion lighly developed, and lrains to. back it. P'enetration sharp as the business end yer's office preferred. Highest and best of city references. Any one in search of such a bonanza
will strike oil-a regular suouting well will strike oil-a regular spouting well-byaldres

## A wedding Incident

An amusing wedding incident recently occurrel le Courculles offinted, and when he askel forto the ring, it was missinc. The brilegroom declared trary. The service was stapped, linth to the con their pockets, and weanwhile the thridegroom carelessnes, while the hritu pers sted that she had given the ring previonsty to the bri legroom, and
that he must have lost it. Mr. We Courecles hated no ring on, nor had any
one in the church, and hito and bridegroom departed to the church anirch the or e grumbling ank. At length, it struck the clerk that a small
link ring attached to his watch-guari, to which hung a
locket, might loe detaith
lind lent for the occasion. It was sery small, lint it just went on the
orthodox finger, anil the clorgyan therefore turned to the altan, and the two were made man and wife. Directly they were married, however,


THE FARMFRS' ADVOCATH,

The Queen's Birthday.
The high esteem in which our Queen is held and loyalty to the British Crown causes this holiday to be more generally kept than any other. Every different kinds. The pealing of the bells, the firing of royal salutes are the morning signals in the cities; the firing of anvils, which make about as much noise as some cannons, arouse the villagers; the universal bang of the fire cracker is heard at every corner, much to the amusement of the boys, but to the dread of many kind sister and mothers.
In this city the great attraction was
an intrrnational base ball matci
between the United States and Canada-the Bosbetween the United Slub, of Boston, one of the best clubs in the States, and the Tecumseh Club, of London. Eac
ing. This gave the victory to the Americans ; the Canadians expected a much worse beating
American club had been longer in practice.

- During the game the cheering of the spectators was scmetimes deafenting all enjoyed the game or good play performed. All enjoyed ava ground every available
heartily. Outside of the heartily. Outside of the ground to get a glimpse tree was filled
of the game.
The Tecumseh Club will play the Boston Club Boston on the 4th of July. This game is gaining popularity very fast in this part of Canada; the boys at nearly every school are beginning to take it up. There is a time for all things, and recreation is essential to a proper development of our boys; we are apt to overwork our boys on the farm, or not to give them recreation enough. If
John, Tom and Harry have worked faithfully all
is 10 cents. If a subscriber sends us one dollar with a new name, we will give this picture and
the base ball book to him, and the FARMER'S ADvo the base ball book to him, and the seriber.


## Natural Mistory

Kats are affectionate; they luv young chickens sweet krea
fire-place.
fire-place.
Dogs are faithful; they will stick to a bone after every boddy else has deserted it. Parrots are easily edukated, but they will lear to swear
The birds but their dessert konsists or
gooseberries in the garden.
The owl The owl iz only a picture ov wisdum by dalite, when he kan't see enny thing. When it kums
night his wisdum wholly consists in ketching a night his wisdum who
field-mouse, if he kan.
The donkey iz an emblem ov pachunce, but if the spring, or even for five and a half days durivg iz what's the matter ov them.


dub strove hard for the victory. The flags of each ation were flying, and the band enlivened the spectators uutil play was callect. Abont.
Base ball is something like the old English game of rounders, a club being used instead of a cricket hat, and stumps are dispensed with. Cricketer look on lase ball as an inferior game to cricket; American spectators enjoy a game of base ball be cause it is gencraty over in about tin that space of morc play and actity 1 the lase ball the player must run or go out if day. An hase three balls or has three good balls pitched to him; in cricket a gool player may keep the bat half a day, if he properly protects his wickets. In cricket each side has but two immings, in lase lall they have nine, or more, if necessary. At the ninth imnings of this international game ach sile had six runs; a tenth imings was called aul the Bostons sot one run, the Tecumsehs noth
he past week, most probally your pa will give you a ball and let you have a half-day's holiday with
bour neighbors. If you have not worked well or your neighbors. If you have not worked well or tudied your lessons properly, at deserve one. We now wearly all our nephews are good boys, and you will have your ball, and perhaps next year yome of you may help to beat the Yankees, should hey again come across to fight us at a friendly game of base ball. Will you now throw up your hat with me and shout "God Save the Queen?" We think it right to let our engraver employ some of his time occasionally for the pleasure an amusement of our nephews and nieces. Our artis drew this on the ground. The 'Tecumseh Club holds these grounds, and has erecteg the stands you see and many more that you canmot see. Th grounds and scene had
new as well as possine. for the the la

The eagle iz the monark ov the skies, but the Thtle king-bird will chase him to hiz hiding placo
The ox knoweth his master's krib, and that all he duz now or care about his master. Munkeys are imitatiff, but if they kan't imitat Se deviltry they ain't happy The goose iz like all other phools-
anxious to prove it.-Josh Billings.
Don'r Lose a Minure.- Keep busy. The man who has nothing to do is the most miserable of
enings. If you have no regular work, do chores as beings. If you have no regular work, do chore in the
farmers do when it rains too hard to work ind field. In occupation we forget our troubles, and get a respite from sorrow. The man whose nind and hands are busy, finds no time to we in
nd wail. If work is slack, spend the time in
and eading, No man ever knew too much. The hardest students in the world are the old men who
kow the most. If you lack books, there, are free know the most. If you lack books, there, at your
or very cheap libraries, at least in cities, it some orvery cheap The man who does not açuire some
command. item of useful information between day break and bedtime must niournfully say,


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