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The Farmer's Advocate. The Farmer's Aclvocate.
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Two Airing Trips-Political aud Agricultural.
strathroy and paris.
It is absolutely necessary for health, to leave our office occasionally. We went to Strathroy on the 6th, taking the carriage road therc, and returning by rail. Hay
crop must be light. Fall Wheat will be a erop must be light ; Fall Wheat will be a
fair crop ; Spring crops wanting rain.Strathroy is growing finely, and will be a Strathroy is growing finely, and will be a
city some dav. The great reform meeting was held that day; the leading reformers were there from 30 miles round. No seats were provided, even tor the ladies. The Grit bugbear was the fishery question and
the navigation. Not one word was said about the postage on agricultural intormation or Seeds, nor about the importation of swill fed American pork, and not much about reciprocity or free trade, subjects that are of importance to the farners, and which they might understand something aboat, if explained to them. A large and attentive audience was assembled; there
was no quarrelling, no drumkenness, no Was no quarrelling, no druikenness, , no with the information they had received.It is beneficial to the farmers to attend meetings where addresses are given.

## paris.

We paid a visit to Paris to examine some Wheat fields in that vicinity. This section of the country has suffered more from the drouth than west of London.The meadows are worst. The Fall Wheat has been badly winter-killed, or rather killed by the frost after 'the snow had
melted. Many large fielus will not yield eight bushels to the acre. Hundreds of acres will not pay for cutting. Some va-
rieties are worse killed than others. The the following remarks about the Toronto rollowing"sukjects might have been tonch-
fields have been well put in, and clean and Market : "Competition . in wool keen, pure varieties are to be found there, but price 32 cents." We would advise some the majority will be shrunk and deficient of the Toronto farmers to come to Middle on account of having been killed or set back ; some pieces of oats do not look as
athey would be worth cutting ; and bar if they would be worth cutting; and barley does not look better than it ought.The fruit prospects are rather b.
than in the vicinity of Loudon.
We called at Woodstock, and found the best Horse in Canada there. He was
looking well and doing well, and will inlooking well and doing well, and will in crease the value of the horses in the couny of Oxford. The County Council was sitting; we audressel them in regard
the potato bug, \&c., and received a vote the potatho ug, ©c., and recived a vote
of thanks from them.
There are not as many new houses going ip in Woodstock or Paris, in proportion
to their size, as iu Ingersoll or Stratford.

While in Paris we saw their apology for market. Some wool was offered for sale and farmers appeared lighty jubilant over what they consiuered the great compecti tion among wool buyers, and considered they were receiving more than the rea value for their wool-namely, 34 cents.They were quite taken back when we told them we had sold ours a few days before in London, at 36 2. 2 , without being culled, and were oftered 38 if we allowed it to be
culled. They hal some doubts as to our culled. They had some donts as to our Toooiton-and the Globe is gospel in Paris, as well as in soine other reform sections.the quotations, and fonnd
ondoy anead in wool.
A guide to American Stock Meu- - Mar Ket quotations of the Globe, June 9th :Hamilton, 27 to 35 cents; London, 30 to
35 cts. ; Chatham, 28 to 29 cts. ; Guelph 33 cts ; ; Chath
34 to 344 cts .
Telegraph-Toronto Market,
Advertiser, London, 30 to 37
London Free Press, London, 32 to 38 c .
We walked into the London market this morning, June 12th, and stepped up to the
frst load of wool we came to ; it was Irst load of wool we caine to; it was jous bein's culled. We looked at the guotations of the Glolo of tho 12ty, and foum

## Electioneering Tactics.

As McKenzie and Blake are now tra eling throughout the country explaini their views preparatory to the com deemed it our duty to listen
to their remarks when in this county, as no ne can form a correct judgment on any subject, unless they hear both sides of the argument. They are both eloquent and pudied orators, and we believe would make good statesmen(in using the word sututesmen
we do not wish it to be inferred that they are Yankees). The great plank in their platform appears to be the result of the High Joint Conmission. .They lay very great stress on some, points which it is not or wrong, you must be guided iyscreumstances aud your own julgment. The political papers will keep you pootca purpose.
However much we may respect McKen se and Blake for some things, we think Wey would be the better of a little spice and we trust it may do them moie goon than any spice we may have applied to the inister or Board of Agriculture.
The audience addressed by Blake an
McKenzie at Strathroy was as intelligent a lot of farmers as will be found at the a verage of such gatherings. They listenec attentively to all that was said in regar tion, Lumberin the other side before they can form au biassed opinion. These subjects should and Blake failed to tell as effectively as they would otherwise have done, was in ignoring agricultural matters, which were immediately pertaining to the interests of the audience. We very much doubt either McKenzie, or Blake, or McDonald agricultural affairs of the country. The
 ol on, and should be explained at every
neecting: Why should Canadian cattle mecting: Why should Canadian cattle
be compelled to pay duty when going into the States, and American slop fed hogs be admitted into Canada free of duty, and shipped from Cution Why should not ruin of our reputation hy should not the postal arrangements between Canad
and the United States be adjusted? We and the United States be adjusted? We have seen letters that cost between 82 and
Q3 , that ought not to cost $a$ tenth of the 33, that ought not to cost a tenth of the
sum ; and peckages that ought to pess for sum ; and peepkages that ought to pass for
1 or 2 cents, for which 30 cents had to be paid. We believe that hundreds of thousands of dollars are annually lost to Canada just for the lack of a proper understanding with the Americans. We do not believe that the Americans desire such almost prolibitory postal arrangements as now exist. This matter only requires to be agitated, and it will be reetified.
Leading gentlemen who address agricultural audiences should draw the attention of farmers, and explain to them, if they can, why agricultural information should be nearly suppressed by the present postal arrangements and other causes. Are the inbalitants of Canada disloyal to the mother country, or is our government en daavoring to bring on annexation by the slow process of checking agricultural publications, thus encouraging American iteraure tural papers has reduced the circulation of the Canada Farmer about half, and has doubled the circulation of American agricultural publications. Has the press power and can it he used in time of need 3
The farmers of this western section of Canada pay as much towards the revenue of the country as fishermen, lumbermen and miners; and the farmers of the dominion must pay the principal part of all ex. penditures. Have their interests been looked after? Are the large expenditures about to be made intended chiefly for the benefit of farmers ?
From experiments male at the Iowa argicultural college during the past year,
it appears that the Peachblow, Peerless.
 to attucks of the
than other varieties.
a, ontamio
on, and purconclude the

## FARMER'S ADVOCATE.

Public Agricultural Aifairs.
We have continu essity of sending more agricultural men to our Legislature. The greatest difficulty is,-1st, to $\propto$ find sufficient gentlemen of ability devoting their attention to that business; 2nd, the expense that an election will cost, not only in money, but in the time taken from their business. The first is the greatest drawback. We far mers should waive a great many objection that will always be used against a farme and endeavor to return more to either the Houses of Parliament. The public agricultural affairs of the country must be managed by some one. If suthabe Governare not to be found, al thach as they deem ment can do is We do not doubt but the most sutablo. Wr present minister of in the selection of our present represent agriculture various things were represe land ed. The Hon. John Carling owns land, he is a farmer. But he has never paid any etention to agriculture, and really knows less about seeds, plants, stock, weeds or cultivation than any farmer we ever met. His attention or faculties have never been devoted to it, and the great absorbing power of gold has engrossed his attention Gold from the brewery, and brewery regulations and contracts ; Gold from land and city improvements; Gold from railway influences ; and gold from public improve ments. These things have been, and who can say but they would be the first con sideration with any one. We do not blame him for looking after his own interests, but we believe he has been led astray and misdirected by those persons who hav fawned on and misled him in the discharge of his duties as minister of agriculture and by that means ofriculture, to the building up of party power.

Agriculture should in no way be troubled by religious or party lines. It should be the aim of the minister of Agricuture to enhance the products of the soil, to improve aud protect our maltural information, age the spreat of agrictitural much as possiand to guard the farmers as or ctock. The ble against losses of crops a agricultural sovoices of couuty councils, agrinhould have cieties, and pration as one or two prias much attention as one or two pri-
vate individuals. Where Mr. Carling fate individuas. Whas in allowing himself to dic directed by a body guard of oftice-seekle directed by a body guard of office-seekin those who att:in influence. Evil comin those who ale apt to corrupt good manners. Had Mr. Carling lent an ear to agriculturists, and been directed by such counsel, he might have done, and may yet counsel, ho the Dominion in which he holds such an exalted position. The mere compulsion of paying heavy taxes to support institutions that may not be of nse the the
tillers of the soil, does not constitute the sole duty of a minister.
Mr. Carling should know what has been of value to the country, Fand endeavor to the Provincial Exhibition has been of great benefit to the country, worth far more, in fact, than it cost, despite all the mismanagement complained of. If has been the main institution from which all the minor mes have sprumg. Now, the question
may arise, and should be considered, how far these exhibitions that have emanated from the Provincial are doing good to the country. Men are like sheep,-they fol Intellectual information should rule, and must rule. If some of the energy now displayed in imitating the useful labors the past generation was expended in en tablishing really good agricultural clubs, for the discussion of agricultural sujecta agricultural management, and things gen erally in connection wilue to the coun would it not be faring bills, the intense bry than the great fatse bull, excitement on ast harchine. Will ot the loss on the importation of slop-fed not the harm than the American pordred Provincial exhibitions? Will not the Colorado potato bug do more damage than all the smaller exhibitions will do good? Are there not seores of subjects which we should discuss rather with the mind than with the eye?

We should have a minister of agricul ture that would lead and not be led ; ture that would drive and not be driven.

## To Ottawa or Not.

Is the Provincial Exhibition to go to Ottawa or not? This has been the main question to be decided at the annual meeting, and we presume it will, he Provincial Exhibition being perambuthe Provincial Exhibition being perambu tatory has been of mas been worth all it cost.It has given a stimulant to improvement, nd an opportunity to learn, in every section where it has been. It has awakened London, Hamilton, York and Peel to have their exhibitions ; it has caused Guelph to make extra exertion, and they will have fair, as good as any in Canada, when hey establish it.
There is a very large tract of country north of Kingston, and if the Exhibition went to Ottawa it would no doubt he of very great advantage to thousands that have never had an opportunity of seeing
what Canada can produce. It would cer tainly be expensive for western men to at tend, the majority could not afford it.There are comparatively few farmers that to beyoni a dist
The farmers around Otawa have been taxed for years to support our exhibitions, and we think they are fairly entitled to it now. We can hold exhibitions in Guelph Hamilton, Toronto and London, and wait our turn for the Provincial Exhibition.The only reason we woutd have for oppo sing it is, that perhaps when they got it once they might keep it. Such a catasrophe might happen. Quebec might join Ontario, and have the anmual exnibition a vermanent thing in Ottawa: and from the splits and contentions that have arisen about the exhibition in se wester section there may be da mone that it would be a and some mige thing to establish it there
good thing to establish it there.
We believe it would be better for us in We believe it would be better for us in
London to have it permanently established London to have it permanenty cstabs (even in Ottawa, in preference Ottawa has ample buis is talked of. buidings for implements, andl wo believe they can
afford much more and better accommodaion for visitors than better accommodaKingston - but arrangements should be made that farmers should be accommodated at no advance on usual rates. Ther is too great an inclination to charge as the mously for everything at snch times as the Provincial Exhibition goes
We have heard of 50 cents being charged We have heard of 50 cents being, wizhout or a nigh And Ottawa has already a noted name for high charges.

## The Myat Winc Plant.

Much has been said in years gone by of this plant, especially when it was first in troduced, and pedlars swarmed the coun try selling the roots. The majority hundreds went into the speculation wh knew nothing about it; and had neithe the patience, spirit, perseverance nor the means to properly carry out the wine mak ing process. Others were too careless in cleaning the casks, and many were too par simonious to use sufficient sugar. A grea deal of the vilest trash was sold under the name of Myat Wine, that was no bette than the mixture of molasses and logwood that is to be found in the majority of ho tels under the name of port or sherry.The public mind became set ngainst it, and the cultivation of the plant has almost ceased.
It happens that a gentleman named Webb, a few doors from our office, became impressed with the value of this plant, and went into its cultivaticn with a deter mination to succeed. He has now are cellars filled with the wine, varying from one to seven years of agc. several vintages, and beliere ths of the superior quality to nin.c-cename of win liquid that is sold under the name 22,) w in Canada. walked over one of his more information Mr. Webb, and ohtained manasement about the cutivation than we ever knev the Myat Wine Plants stand in rows, $3 \frac{1}{2} \mathrm{x}$ before. The prants is completely covered some of the stalks being over three feet in mine We never knew auything alou the ripening of rhubarb until Mr. Webl explained it,-as we always thought that when it was large enought to use it was a yood as at any other time. Mr. Whebl howed us the difference. The main crop will not be ripe until about the 1st of July. The elges of the leaves then begin to turn a reddish brown, and the stalks should be red. When the harvest season commences all good stalks will be cut, and the smal oues left to make a second or fall crop.A large quantity of the muder leaves are worthless.
There is a great prejudice now existing fith regard to the wine, and we are much pleased to be able to state that Mr. Webl is fast conquering this prejudice-not by advertising, or by agencies, but by making an article that when once tried by wine drinkers is sure to give satifaction. W were informed by Mr. Kltching, when risited his vineyards and wine vaults, tha
preference was given to Myat wiue ove prefernce was given to srape wine It our impression
purs grab
that for wine making in Canada the Myat that for wine making in Canada the Myat
Wine Plant will be found superior to th yrape. Why should we exrend in importing
duce. and he

## An Awful Calamity

A special meeting of the Western Fair Association was called on Saturday, the 24 th of June, the sole purpose of which appeared to be the annilination of th Farmer's Advocate and its editor. Law appeared to be the desire of some, hut finally they succeeded in carrying a vote to discontinue taking the Farmer's Advocate, and to have said vote published in the papers. This is a terrible stroke! The support witharawn by the above resolu tion must be ruinous to this institution For the past six years they have not ha one year's papers, and ner par one even for six single eived. A sufficient number were fount to carry the resolus were rather high. The pposition. Words were rather hig talked of ditor was urling him down stairs. the editor was allowed in the room again. His writings were condemned as false; nd he was called a liar by the ex-presi-

The fact is, the editor has been rather too fee with his pen to suit a certain combined party that he considered was auting rather gainst the agricultural interests of the suntry, and endeavoring to enchain agriculture to politics. One of the members of the board threatened the editor with a horse-whipping if he published his name, or anything concerning him. A second member made a similar threat. Woe be tide the poor editor that dare use an untrammeled pen. Oh, Canada, Canada, is darkness to reign !
This circunstance forcibly reminds us of the conclave formed by the three Tooley Street Tailors, who represented themselve as "we, the people of Great Britain, and also of an incident in the hic of the lan millionaire, Mr. Hoby, of old Londonwho, having made to order a pair of boorall or a certaill ensign who that celebrity, snubs, was called upon thet suiting his in consequence of the crushing announceancy, and recesim would withdraw his ment Mr. Hoby still retaining his ratronase. Mr. Hore sum aity caled on enses umaer mald him to put up the his mana, Ensign Sunbs had withurawn his patronage. The ensign did not wait his patronage. Mr. Hoby's order carried out.
Our office is still open.
We have heard no convincing argumen to show that the Western Fair has not been organized as a powerful political par ty ensine, to euchain and enslave the far mers. As indications exhibit themselves to us, the effect must tend greatly to check the independence of farmers of the Domi nion. The main question for Canadia farmers to decide is this:--Is Agricultur to be made entirely subservient to part. political power, and the present Provincia Board of Agriculture made subservient to the w
not?
-An Ohio paper publisles its sncial an-, nouncemen," "ratch ", "Snatched," "De-
"Machede," aid "Dispatched," as an improve, "ent on " Pon," "Betrother,","
"Elopel," "Divorced," and "Died." Bary Weevil.-Lime, sprinkled over the erain aud on the harin floor, will cause the weevls to
genial climate."

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astonish auy Middlesex farmer, however backward he might be, to go into Lower Canada and see the extent of really goo ircumstances of the farmers in the part of the dominion. They hardly know what an agricultural paper is. The imple ments are of the most primitive descrip tion. Stock, grain and management the same. They do not appear to belong to Canada. Progress and improvement are but little known, and from our observation they appear a century belindjgthe age ; and at their present rate of agricultural progression we think they will not catch up in a thousand years. Where the fault or misfortune lays it is not our province tn say, but a great change is required, or emigrants will n
of the dominion.

The Danger of the Time
There has grown up of late years a class of men who make politics their business for the simple purpose of making miviey out of it. They gain control of party machinery and advantages which they control. Men of political ambition recognize thei Men of poltica their support. The me elected to office through their influence must submit in their official acts to the dictation of the power that made and can mamake them. Those who in this way own legislators and governors sell thei wares to whoever will buy.
The buyers form another class. Th the business of transportation, has been $t$ accumulate immense wealth in the hand of a few financiers. Their schemes ar frequently in need of help fronn govern mental authority. There is a short and easy way to obtain this uncer such I st of things as we have described. man. A much casier bargain can b made with the small clique in the back Ground who largely control the legisiature Mury stand remy to

## 1

So the business is calried on. With it reat profits chmes inceasing power to the
ew central political operators. Their in-
and fluence widens, and draws under its con-
trol not only politicians and office holders, but newspajuers, juldes, financial concerns They gain wider rower within their party and come to control nominations to the
hishest public positions. By natural affihichest public nositions. By natural atti--
liation they unite with knots of kindred spirits in other sections
power for joint action.
As their original and main stock in trade consists in the control on wers, of the low er class, they huncr these ty the lowest
ifemaromism. They even slifld notorious criminals, and extend a wide protection
over the most disorderly fad dangerous wer the most disorderly and dangerous
clement in our cities. Men of personal
cubition, on the other hand, whose positimh and olaracter are above corruption,
sulmit to the dictation of a power whicli sumit to the dictation of a power which
they far to discegard, and wink at what they would be ashamed to openly counten where, into the linghest ranks of society and the lowest ; into our courts of justic which it corrupts; anong the deus whose infimy it protects; along the floroatest
thoroughifares which it renders insecure thoroughifares which it renders insecure Church, dryiug up the nanlinesss and hon or which are the springs of Christian hite
The state of things which we hav The state of thingsiliar to thos whos
sousiness it is is to watch the liroad aspect o lusiness it is to watch the liroud aspect of
natinial lipe. Put it :a not nough real
zed among the mass of conscientious me ized among the mass of conscientious me fidelity the salvation of the nation alway rests. These cannot too soon be aroused to the evil and danger of the situation.worse danger impending. For, as we have said, it is the nature of this bad power to grow stronger and make constantly wide
conquests. Already there are ominoun conquests. Already there are omino
signs that the national goverument itse may fall under its control. Suppose such
a clique as we have described already in a clique as we have described already in
control of a great state : suppose that by control of a great state: suppose that by
corrupt lesislation millions of money lie in its hand, available for a political campaign; let there be other millions within porations, whose controfling chiefs have immense interests at stake on the favor of the national govenment. At the same time let there exist a great political party, to certain principles, but well under the control of their leaders, those leaders bent on success; the enormous financial and political resources of the clique at hand as
a powerful instrument in a doubtful cona powerful instrument in a doubter such circunstances is it improbable that this knot of men should dic-
tate a Presidential nonination? With tate a Presidential nomination? With
the country pretty evenly divided on purethe country pretty evenly divided on pure
ly political grounds, and gigantic bribery thrown into the scale in two or three great doubtful states, is the success of such
candidate an absurd supposition? andidate an absurd supposition The picture is not an imaginary one.-
Would that it were! And be it noted such a catastrophe would be worse than any mere political change that ever befe can be'all. The triumph of no political principle, however unsound, would ap
proach the misfortune of having the ad ministration under the control of a set o chiceves. The discrace abroad would b less than the injury at home. Squander-
ed revenues would be the least of the evil. inflicted. No public interest, no private
rights would lee safe. And worse than al he harm to material interests would be the community were the central goveril ment with its myriad arms and its con-
mpicuons action. controlled directly by picuous action. controlled directly by hameless greed. Betore now threr hav with the general government, but never has there been anything like the direct orruption that is now threatencel. arruption that is now
(Beerher on Uliristian Union.

We give the above to our reaters. They may select or discard as m!ch as their di ferent opinions may judge to be applicab to Canadian affairs.

## The Potato Kibuy

The Potato Bug is surely and firmly established in Canada, marching aul flying eastward. Some of you at the past may tion you ton much to be on the watch and kill the advance guard. Hand-picking is practicalle on their first appearance, but as soon as the second or third crop, appears, Paris Grepll is the most reliable destroye acte is sufficient, mixed in the proportion of one pound of Paris G:een to about ten pounds of Plaster of Paris.
You may see the spotted slug in the en graving. We took the very gentleman placed him in a bottle corked it, and gave him neither food nor water ; this wa nearly three weeks aro, and he is yet alive We have heard of their baving been corked up for two monthis and bein's still alive. We noticed in one of our exchange pa Wrs accomat of the bad cifiects of a bito
for letting them bite ; and perhaps it was troyed. They may be handled and desshould be no wound or raw flesh. We think the danger of being poisoned by them is a myth, and may be made an excuse for those indolent and ignorant farmers who allow them to breed on their farms to the loss of the whole community. We are waging a deadly conflict with them, and thus far we are the conqueror Watch, kill and destroy them by every Mr , is our advice to you.
Mr. Couse, of St. Thomas, gives his boys a penny for every potato bug they find on his two acres of potatoes ; and the same The for every lear having eggs on it.The chilaren run up the rows every day, and have as yet only earned about fifty rom the seond boys and girls a chance to may, give the money for themselves, and a larger sum for you. What would be the value of your potato crop? Would it be dear if you saved it at half its cost?
We would further suggest as a check to the spread of them, that in sections where they have not yet been seen, that each farmer would give his boys or girls 50 cent or $\$ 1$ for the tirst bug; 10 cents per doze for the first dozen ; 20 cents for the first fitty ; 50 cents per hundred for the firs five hundred ; $\$ 1$ per thousand for the first thousand. When more than that are found use Paris green.
Paris Green will not poison the crop of potatoes, as some suppose, and is the only sure destroyer of them when they are too numerous to pick by hand. Many think the mall potato bug, or miller bug, is the Colorado bug, and consequently they look upon the warnugs as unnecessary. They will find tho gemun Colorado bug to -a rive on your farm.

Bes Moore's Rural New Yorker, of the th June, makes an extract from this ournal, but says they do not understand the allusion. We will explain :-The government or conservative party in this city have been guilty of such acts that exposure ought to cause shame in any living man.The existing government has acted with these persons, and have attempted to infure and curtail the power of the Provincial board of auricultural managers who are elected ly the people. Public agri-
cultural affairs will be better looked after in future, and the time is approaching when farmers will have more to say and less to pay in comparison with others than
they now have. hiey now
To Destroy the Currant Worn.Procure carbolate of lime and dust th bushes; it is cheaper and more effectual han heilebore. It is certain death to th worm, and does not injure the fruit
(a) A music teacher once said that the art of playing the violin requires the most erception and the most delicate sense of ny art in the world. We say the art, of publishing an agricultural paper to please
very body beats fiddles higher than a kite.
cer We republish the most important matter that was in our last Supplementlivered at some of the Post Officem.

## FARMER'S ADVOCATE.

To the Warden and Councilmen of the
Gluential gentlemen among you are not fully aware of the advantages of the Canadian Agricultural Emporium, established by me; nor of the advantages of the FARM er's Advocate, I purpose making a few ER'S ADrks in reference to them.
Eight years ago we first undertook the task of establishing the Agricultural Emporium, seeing that such an institution would be of much benefit to the country, as we had no place where seed-grain was imported and tested, and no reguld protablished depot where a person coulougcure or know where to procure thed implebred stock, or the latest-1 time and means ments. We devoted our found it necesto carry out the plans, and found it ieces sary to establis a paper' Advocate, and name of the Farm, "Persevere and Suctook as our motto, "Persevere has been a ceed. We beler of our journal but is perfectly satisfied that it has been conducted fectly satisfied that and has fought for the
true to its name, and true to its namermer entirely independent interest of party politics. The Advocate has fearelessly attacked any plans, men, or things that have tended against the interest of the farmer in general, irrespective of party, position or locality. We exposed the old Board of Agriculture, and condemned it when they were strong. We have endeavored to strengthen the new Board of Agriculture when they have been weal. We have expended a large amount of money to improve the stock and seed of the country, and the published reports from various parts show that the wheat, oats, peas, potatoes and corn sent out from the Emporium has been of much advantage to the parts of
they have been sent.

- We have not done as much good as we might have done, as our means were small in comparison with the greatness of the undertaking. We have in no way been aided by the public funds; but our support has been entirely from what we would make from the business and our private means. The undertaking was concenced expecting the controllers of the public agricultural affairs would conn ine, and at least throw no obst But we much re independent progress. But we Minch re gret to inform yhiculture and his cliques - most particuAgriculture and as well as at the Legislarly in this city as well as their utmost to
lature halls-have done lature halls-have undertaking, so as to take up our plans, and fill offices with already select favorites, and to enchain and trample down independent agricutural enter prise, and to aid the undertaking.
The vilest plots were being planied to overthrow the experimental and test farm themselves.
Do you believe the governmment would have dreamed of establishing such an in stitution had we not commenced it ? Why have they put this quadruple tax on agricultural papers, to the effect that any agricultural journal published in Ontaeio mus be prepaid by the publisher paper may be paid by the receiver at the rate of half cent? Why did the gorernment start th

Ontario Farm except to trample us out of existence? Why would they not not allow seed to pass through the post ofid at without being compelled to be prepaid at our times the rate that papers may sent, for no other reasom of us farmers. Our dendence is on our subscription Our dependentising list, and on sales ist, our adve Our importing and testing ve can as been an expensive undertaking. The paper will be found of use, pleasure The paper wach gentlemen who cultiand prort. it. It will be found both amusing and instructive to the young.
Perhans you might order a few numbers for your Agricultural Societies, or a few for each school section, and might use your influence to introduce our paper and make known our plans in your vicinity.
We subjoin the following commendations, to which perhaps you might add another to our list of approbatory res nces. Remaining yours, respectully,

## Faets about the Elioney Bee

Frets aloout the Fes bees in a hive There are three classes of Drone.
Queens are raised by peculiar food and Quatment, from eggs that would otherwise roduce workers.
The worker is an undeveloped female.Workers in the absence of the queen sometimes lay eggs. These invariably prodice
drones. drones.
The qu The queen lives from two to five years, The worker from two to three mon to eight the working season, and
The queen is perfected in fifteen or sixThe queen is perte egg, the worker in twen ty to twenty-one, and the drone in twenty tour.
The queen usually commences laying The queen twelve days after leaving the ell, and is capable of laying from two to three thousand eggs in a day.
The impregnation of the queen always takes place outside the hive, and on the wing, and generally the fourth or fifth day after leaving the cell. Excepting in rare cases, one impregnation answers for life. The drone she has mated with dies imnediately.
The eggs of an unimpregnated queen produce nothing but drones; and it is senerally conceded that impregnation does not afiect the drone progeny, consequently the male progeny of a pure Italian quee is pure without regard to the drone she has mated with.
The queen and worker are provided with tings ; but while the latter will use it upon auy provocation, the former will only use it on her own rank. The dromes have no sting.
One queen, as a rule, is all that is toler-
ated in a hive ; but previons to throwing ated in a hive ; but previons to throwing
off "after swarms," two or more quens off "after swarms," two or more queens
are permitted in the same hive for a short are permitede extra ones are soon dispo-
time ; but the
sed of. In case of superseting a quaeen. sed of. In case of supersenting a queen
the old one is preserved until the new one is fitted to take her place. Queens have a is fitted to take her phace, and will des.
deadly hatred of cacth other, and
troy if pernitted all queen larva or cell. troy if permitted all queen lavia or cell:
in the hive, and will fight cach other untid beere is but one living one left. Bees gather three kinds of products,-
Propolis, from the gum of trees and shrubs for fastening the joints and cracks of the for mixing
salt is als
purpose. cent? Why did the gorernment start the $/$ fives ; Pollen, or bee bread, from flower
or feeding their young and themselves;
Honey, which constitutes the main nd Honey, which oonstitntes the main
ood of the hive. Water is also carried ood of the hive. Water is also carried
nto the hive during the lirceding season, or mixing with the food for their young;

Wax, like fat, is an animal proluct, and is secreted by the bees in thin scales from the underside of the body. quantitios of
this they consume large quat honey-from fifteen to twenty a A frightened bee, or one
oney is not disposed to sting. A good swar
housand bees. Agond swarm contains about twenty A strong or medium live, with a good living queen, is never; serimusly troubled queen, or the means ot raising one, is wre to be taken by them.
Bees recognize each other wy their scent. Bees recognize each other by their scent.
The first one or two wecks of the young The first one or two wecks of the young
bee's life is spent inside the hive as a nurse or wax worker.
The range of a bee's flight for food is
, generally within two or reater range is
them.-Selected.

## Orchard Grass

From an essay by L. F. Allen, Esq., o Black Rock, New York, in the Tribune we make the following extract :
We have grown this grass constantlynot in large quantities to be sure-for the past 30 years, and know enentioned; but for soiling stock in the summer season we consider its qualities the most eminent. A few will be stated
First : It starts early in the spring, with
aboad oat-like leaf, growiny rapidy, and rriving at its highest condition of cxcellence when in early bloom, which is about the time of the blossoming of the common red clover,
cut at the
purposes, it purposes, it may be cut some days or even
some weeks earlier. It is better, how cever, sone weeks eamont of ne:triment it will
for the full amount afford, to wait until the flower is fairly developed. Its qualities are sweet, nutri-
tious, abundant in production, tall as orditious, abundant in production, and burden
nary oats in growth, and a lieavy bud If nary oats in growth, and is rroduced. If
to the area on which it
suffered to stand long enough to mature suffered to stand long cnoush to mature
its seed, the stalk fihier becomes lariy,
lise harsh and unpalatable to stock; therefore
it must be cut before it arrives at its seedit must be cut itione as is the case with most
ripening condition, other grasses for dry figige purposes. No Crass which we have scen this, nor one
yelded so heavy swath as as this food to the acre can grown, apart from Lucerne or Trefoil. which our American climates wil not consecutively, year clover, springs up No grass, not eventing, as this. We have
so rapidly after cuttor whoner start fully
known it in slowery weather s. known it in showery weather start fully
three inches within a week after cutting, and so continue for repeated cutting
throughout the season, retaining its ver throughout the season, retaining its ver
dure into the latest frosts, ind then afford ing a pasturage swect and nut fritious, in-
viting to all kinds of farm stock inclined viting to all
to grazing.
to grazing.
Second : As hay, its quality is good
when cut in its eary flower, but inferio when cut in its earyy flower,
when gone to seed, attaining therio fiber, as before remarked, yet, when cut
und steaned, equal in nutritious quality and steaned, equal in nutritions quality
to other lace-cut grasses. The steaning or cookking process reduces its fibrons it pralatable to the state of animals, and mutrenious uses. As hay, it cures readily; its lon'y growth renders it easy to rake
and hande; it stores compactly in either
stack or mow; cuts easily with the hay
inife in the mow when fed dry in winter,
and is every way as convenient a long
fodder as bottom.
or hay. Such are its qualities
Third Third: As soiling stock through the unmer months is now coming rapidly
into practice, we can do no better service to the farmer-more particularly to the dairyman-than to recommend the
Orchard grass for that purpose ; and for Orchard gyass for that purpose; and for
the following reasons: It is early. It rows continuously thronghout the sumrows continuously throughout thenen in
mer and fall seasons. It is permanent in mer and fall seasons. It is permanentrong fibrous root; maintains its hold in clumps, or tussocks, against any and all other
rasses, even the blue grass--which crowds grasses, even the blue grass--which crowds
out almost every other - making no inroads at almost every when once fairly rooted. We have a fild of it, on a strong clayey loam, which has stood for soiling ; it has years. It has bent cut for sonting, it has leen pastured, was first sown with red clover and
imothy, which it long ago run out, and, timothy, which it long ago run out, and,
although the white clover and blue grass although the white clover and limed extent
venture their presence to a limer venture their presenlard gaass retains its
among it, the orclast
supremacy and lreast-high at maturity, supremacy, and, lireast-high at maturity,
lords it over its diminutive trespassers in lords it over its diminutive trespassers in $a$ bounteous crop, while its humber at tendents, good in their place, modesty

It has been objected to the orchard grass that it grows too much in stools or tussocks.
If it has a fault, that is one of them but If it has a fault, that is one of themy that. full seeding wit meastrably so universally as the blue grass, or perhaps some others, but it forms a stromg, compact iot, and, if given a moderate amount of fertilizing natter, its roots till the surface, and there
they stay, yielding to nothing but the utthey stay, yielding to nothing but the uthost abuse by treading call never be allowed on any grasses-or the plow itself.
Orchard grass yields seed bountifuly, Orchard grass yields seed bountifuly,
and when ripe, which is known by its asond when ripe, which is known by its asuming a yellowish color, it may be cut and bound and thrashed out, lilke timothy The entire process of its cultivation is as
simple as any of our ordinary farm simple as
grasses.
If any of our subscribers can save us me seed, we should like to procure some next season, as we had a greater de mand for it last year than we were able sapply. We think hout this grass in ufficient knowledge aur readers might do anala. Some or sending us their exsood to others with it for publication.

## Charcoal for Wheat.

There are many instances on record, oing most couclusively to demonstrate
Ohe very ligh value of charcoal as a manure the very high value of charcoa is rendred
for wheat. As a stimulant it in apparent by the most convincing and un-
deniade facts. A late writer in the $L e$ deniable facts. A late writer in the Lethis subject, says:-"A few days since, this subject, says:- MA. Jaccb Dorr, of
in company with Mr. Jind
East Buffalo, I visited a spot on the land East Buffalo, I visited a spot on the land
of his: brother, John Dorr, on which the excellent effects of charcoal were plainly visible. Before reaching the spot, I
noticed the noticed the beautiful bright green of the
wheat in the lower part of the field, even at this season-the dead of winter-and requaked to Mr. Dorr, that that must be
the spot. He stated that he had not visited it for a number of years, but was under the impression that it wais higher up the
field. Whicn we arrived at the spot of field. When we arrived at at we spound,
beautiful brigit green wheat, we for beantiful brigit gree the locality of the
indeed, that it was the places the soil was
llarcoal. In some hack with the coal, and the wheat plants were very large and heathy. they can be pearance from all parts of the field, so superior are they to those surrommunication, that appears from the communication,
some fifty or sixty years ago, a blacksmith

## FARMER'S ADVOCATE.

shop occupied this spot and near it there
was a coal pit. This acconnts for the was a coal pit. This acconits for the presence ond undiminished fertility and surprising it.
riched by it.
"But it is well known to many of your
readers, un doubt, that charcoal is, in its readers, 10 dourly indestructible. It remains in the soil for generations without sarcely
any perceptible change or alteration, and any perceptible change or atcration, and
wheun applied in large quantitics as a stimulant of vegetable lite, acts from year to
year, and even from generation to genyear, and even from generation to gen-
eration without any
obviously apparent eration, without any or effect."
We quote the above and hope tha some of our subscribers may be benefited by the hint and report to this journal of their success with trials of it, even We have not time or means to test every thing as well as we could wish, but w are quite convinced that too charcol and many about useful fertilizers. Send us report of your success with them. Successful experiments are valuable. We feel sure some one of our readers will try it on a small scale. We have tried its effect on fowers and found it most beneficial verdant green appearauce to the foliage.

Test of Carter's Ditching Machine The Americans will have the best implements. Facts and figures must tell : I hereby certify that Carter's Patent
Ditehing Machine has been in operatiou on the grounds of the Buffalo Centrai
Park, for the past week and its capacity for lerforming the work for which it is
intended thoroughly tested. On a soil composed of extremely tough clay, mixed
with cobble stones, it cut twelve hundred (1200) yards of ditch, qut feet deep, ready
for bottoming and levelling in two worling "days, the same amount of ditch left one half ( $40 \frac{1}{2}$ ) days labor for one man. tween the cost of ditching by hand labo and machine as follows :
Cutting 1200 yards ditch b
Cutting 1200 yards ditch by
hand, one man, $40 \frac{1}{2}$ day
labor at $\$ 2 \mathrm{M}$,
Cutting 1200 yds. ditch
$\begin{array}{ll}\text { by machine, } \\ \text { Wayes of operator } 2 \text { days } \$ 250 & \$ 5 \\ \text { Wages } 2 \text { teans and drivers } \$ 5 & 20\end{array}$
Saving by marchine on 1200 yds . $\$ 5600$
ditch
Thit test was made upon what I conThis test was made upon what I con-
sider the most diftheult part of the ground,
and I can add that the operation of the machine was a complete sucress and therefore its best recommendation. Overseer of W ork done on Central Park
Buffalo, May 29, 1871.

Diled Floors.
The Manufacturer and Builder says:
Oilug improves a floor in several waysi, Oiling improves a floor in several ways.
Greese-spots, of course, will not affect the Greese spots, of course, wind moch less scrubbing than is necessary tor plain floor will
suftice to keep it clean. Moreover, the appearance is noods prepared in this man of our native woods, preparedime. Finally
ner, become positively handsome.
it gives the sirface a harder texture, whicl it gives the surface a harder texture, which
makes it wear longer and more uniformly Paint costs more, takes longer oft more easily, since it simpl forms a crust or coating upon the wood,
Hence an oiled floor looks better than a painted one, especially if a little color, ed cienna is added to the oil. To prepare a floor in this manner, take
raw linseed oil, or some cheap oil not of
fensive in odor, and capable of drying;
mix it, if desired, with some such transparent color as those mentioned above and apply it with a common paint brush in uniformly over the whole surface and in stand in spots. This may be done at night, after tlie day's work ; and the place will be ready for use agaius the next morn
ing. As far as the oiled surface is con ing. As ia might be stepped upon at once
ceried,
without injury; lout there would be dange without injury; but there would be danger
in case of tracking the greese to othe arts of the house. A new coate a year ufficient to keep a floor in order.
This treatement is to be heartily recom
mended for the floors of kitchens, pantries erandas, closets, bathrooms, and laborer', bedroms. It is also a good plan in childrens to apit theire own house-work, to leav Without carpet or matting that part of the hoor where thebed sil the wood. The floor under the bed can then be easily kept free rom dust, and the sweepings can be readily
removed; while wasistands, etc, can be remored, disposed as to give the youngsters free so disposed as to give the youngsters free
scope for their allutions, without injury to carpets.
In country-houses, the plan might be
carried still further. We receutly had all carried still further. We receutly had all
the floors in a newly-built house oiled and we think it wise economy. Many well-to-do familics in Europe have no
carpets at all ; and, though there are some lisadvantages in such a course, there are
lat certainly some points gained. We think
it gives cleaner houses, with less house leaning. Putting down, taking up, and beating carpets is the most vexatious and
laborious part of our domestic economy, a laborious part of our domestic economy, one of its great items of expese. Still, we do not attack carpets-though, speaking of
attacks, what a tax the tacks are ! attacks, what a tax the tacks are !-w
only say, where you don't need a carpet, by only say, where you don't
all means oil your floor.

Receipts for Coloring. As this is the season when housewives forward two receipts I know to be good: To Dye Scarlet.-To one pound of
cloth take 1 ounce of cochineal, 2 ounces muriate of tin, 2 ounces red cinders, 2 onnces cream of tartar; pulverize this
compound in a bottle in one quart of sof componater, then add two gallons of soft water
wat the thove compound, and simmer the Cloth four hours in a copper or
kettle. kettle.
Bue for Cotron-- Take 1 ounce Prussian blue, + ounce oxarir till well mixed,
quarts soft water ; stir
then bottle. Put over a kettle of soft water, when warm and of the with alum
and dip till dark enough. Set with armer

Wash for Roofs and Buildings.
 to prevent the escape of steam, and when slacked,pass it through a sid one quart of
six quarts of this lime, add ond
rock salt and one gallon of water. After rock salt and one gallon of water. Ate
this boil and skim clean. To every five gallons of this, add, by slow degrees, three quarters of a pound of potash and four quarts of ine sand. Apply with a paint whitewash brush.
Bees should not be set nearer each other than five feet, unless you are very much crowded for room. If you will ch they will be better, as well as a saving
lumber. Bees should be set within four inches of the ground to avoid loss of numbers in the spring. Take two or three scantling, and nail on the under side of the bottom board, and you
right to wet on the ground.

Farmers as Legislators. An Agricultural club in Mississippi has started the question whether farmers hould not be sent to represent che agion. It is a patent fact, which no observing terests of agriculture are too much ney
neted by our legislative bodies. This is due mainly to the indifference of farmers hemselves to some of the most importan questions which directly affect them. It resented by well organized societies, those organizations could bring a sufficient inHuence to bear on the Legislature to accomplish the passage of any
by the agricultural interest.
In all legislative bodies the majority of the leading members are aspiring politiians, more engrossed with schemes for rising to greater eminence, than with the
practical duties which attach to their position. The interests of the constituents are often sacrificed to secure the good will of certain parties deemed necessary for the tion. Hence it is a notorious fact that the most gifted, the most learned and eloqucn are not always the most useful nembers of our legissative bodies. Therate abilities, incorruptible men of moderate abinter
devoted to the interests of their constituents, and not lured on into courses of
doubtful propriety by the ignes fatui of high positions of our legislators. Among the far mers of almost every county in this and other States, a sufficient number of intelligent men can be found, who with a little training obtained in the legislature will
be found capable of representing ably the in feund op their constituents. Ambitious politicians have been the bane of the
whole country. As a class they may be relied on to represent their own interests, but not that of their constituents. Whereever an intelligent farmer can be substituted for one of thite to accomplish the sub-
mers should unit stitution.-Carolina Farmer.

We are pleased to see other editors an taking notice of the farmers. It is long since we commenced adgitating the question. We have said and still maintain that the agricultural interest should be represented by agriculturists. Farmer ask yourselves if it is, or is it maged rightly? If not, why ? and in whose hands is the remedy?
My Experience with Cisterns. The first cistern that I remember was
"dug out," fashioned the once common wug log-say forty
from a large whitewood log
feet long and capable of holding fifteen or twenty barrels. It was a very good or log houses, stick chimneys, and others evidences of poineer life.
Next, a pit some seven feet deep waa
ng in the earth and water cement plaster don the earth. This was covered with lank, a pump put eave-troughs. It stood badly leaks appeared in the cement, and the sof water ran out, and then, later, the hard
water flowed in. It was a failure and was water flowed in.
soon abandoned.
The same principle was then tried in a more substantial manner. The pit was
sunk to about the same depth, and the walls laid up in stone and water lime cap with a manhole in it covered the top. This cistern was likewise a failure, simply because that at certain seasons, when the
ground was full of water, it would force ground was full of thater, wall. There were its way through the walrough which the
leaks in the bottom thround
hard water came into the cisterni, and hard water came into the cistern, and to
water lime and plaster lof Paris failed to
sop them, In a well drained soil, this stop them, In a

or under the bottom, it seldom gives satis-
faction. We went to the cellar next and built a huge wooden tub of inch and a-half pine plank, seven feet high, and holding eighty barrels. It made an excellent cistern for
ten years. The water, was always sweet hat soft. It rotted through at the end of was no objection to this
but that of non-durability.
mund

The cellar was found to bea good place oxt tene sestern, and resealved to build the
 cement, one foot in widest, ,nd axt ares. the cellar on the fourth side. The wall across
 three parts lime
was oll
oll four feet.
In
In theigh bottom of the
 depth of fix or eight inches. They resteud
on hard ground. $A$ thim mortar wis
our on hard ground At thin mortar was pour Wh on these untut the spacese were
 were put on the bottom and walle. Afteo
a couple of weeks sthe water wastet in, and it couple of weeks hhe water wasiel intana


## $\frac{A N}{\text { Homme }}$

Hints for Housekeepers.
"Water may be kept cool for drinking in
 athenare pither wrapt around with two tantily wet. Thhe theory of cooing vater in This nanneri is the aboop pition of ofeat from the
 pression heat.
"A French chemist asserts that if tea be
round like coffee before hot water is poured ground uke cofiee before ho wowler the amount
upon it, it will yield nearry double the
of its exhilirating qualities. Another writer po its exhilirating qualities. Another writer
says if you put a piece of lump sugar, the size
 ta iffisse in hall the time.
 mand, or touch
"To color a foor -to a stropp lye of wood aune adide enounh coppenass or ther required varnish asterwards.
"Thie French have discovered that the


"Grease an beremved an follows: Put
 of tioting paper over itit then phauat hidituref




 pictures"

## Working Bulls.

Why should not bulls be worked? asks the Germantown telegraph. We see no reason and prove as gentle and efficient as oxen. If it was more generaily done, there woul
less complaint of their roaming over the coun-
try and knocking down fences.-Planter and Farmer
We have had a bull at work regularly all


 thus relieving the team from a good deal
work. We find him quite as good as an ox.

Be careful. A farmer. lost a valuable calf
$\qquad$

FARMER'S ADVOCATE.

## List of Agricultural societies,

Dficers and Addresses in connection with the
Burcau of Agricultare of Ontario, for 1871 .
He The names of Electoral Divisiens are mail Capitals ; the T'ownships in Italic. First the President, second the Treasurer
third the Secretary. When there are only tw. names, the secont
tary comlined.

## Addingron.-Thomas Price, Newburgh; J.





 Horticultural Societ
Henry Hart, Paris.
 rociett--J. Wallace, Brantiord; E. C. C. Pa
more, Brantford; B. F. Fitch, Brantford.

 irant, Kilgetown. Zone. D.
Bothwell; Jolin Taylor, Buthwell.
 (Greenbush.
 Invermay. Bruce-A. Burwash, Nnderwoor 11. Murray, Underwood. Eiderylic.-James
Mae, Paisley; J. U. Gibson, Paisley. Scantece, Mae, Paisley;
John
Cormanton.


 Mreswater; V. Fraser, Yeeswater. Grenork,

 M.D. Bervie. Kinlose.-W. Anderson, Luck-
n.w; W. Geddes, Luckuow; R. L. Hunter,

1. icknow.




milsay, Orangevilite
ishleton - (t. W.
 Hundas,-Alex. Farlinger, Morrisburgh; A





 Mruas, West.-Geo. Mithell, Enfield;
i. Porter, Bowmanville , Wintat, Pow- Porturight. -R. B. Spinks, Cart-


 v. miminule




## Eleir. Wess.-Wm. Bobier, Wallacetown; Samuel Williams, Tona; A. Barclay, Wallace- town. Aldboro.- Robert Mowray, Magle;






 Hogan, Woodslee. Tilibur, 'rudell.

 Hitchock, Wolfe Island.

 Donell, Williamstown. Lorrlict aill; Aley. Mc
MancolmiMcGillivray, Kirk Hill
Donell, , occhiel. Donell, Lochiel
Gressyur


 Sound.
 Ensenia; Robert Yerile.


 Romaldsay; John




 Trafalsar,
Has.-Gus.
Bruce, Hanilton.






 Hurav. Nisth








 Kint. Wm. Clark, Rond Eau; James Hart,
KENT. W. McDourall, Wallace-



Tilbury, East. H Forbes, Tilbury, East; J. J.
Coutts, Valeta, J. Flethler, Tilbuy, East.
KIvGrov. - Thos. Brigs, Kingston; E. H.
S.



 Yorre.- Payne, Corunua; H. J. Miller,
Voruna. Plynpton.-H. H. Hunt, Wyomng; John Simposon, Aberarder. Warwick.-
Richard Evans, Warwick; Geo. Smith, War-





 Bell, Carleton Place; A. McArthur, Carleton
1lace. Batherst. - Muncan McDonald, Perth;
Peter Cameran, Perth. Drumond. James
Shaw, Perth; Timothy Doyle, Perth. Montauet Peter Clark, Moutague; C C. Carnduff,
 Caton, Farmersville; Charles Lichards, Frankvill, Samuel Comnor, Frank ville.
 Reubens, Eevoro
Landown: W. Thomson, Lansdown. Youite
and Eseott.-A. Baker, Faimersvill; J. U. Alguire, Farmersville.
Lewwou.- John Sharp, Bath; Charles James,
 Skene, Kmerald. Frederichishuryh), Nowth.-
Fretts, Napanee; W. N. Dollar, Napanee.











 Arva; R. Urr, do. Westminster.-. Thitan

 son, Napier. Mosa.
ville; A. Thomson, do.



 Ning, ras.-Robert N. Ball,
Follett, do.; Alex. Servos, do. Northumberiand, E, Wm. Humphries,
Warkworth; A. F. Wright, Brightom; R. P.


 Roht. 1 hinw
Bournlrae.

> For the Farmer's Advocata.
> $\begin{aligned} & \text { The nasty toal, such a sulject to write } \\ & \text { about; such a horrid, utly, clumsy creature. } \\ & \text { and }\end{aligned}$ $\begin{aligned} & \text { Never mind my little frients, if the toad in ugly } \\ & \text { he is not such a haul fellow after all. In truth. }\end{aligned}$ are his ngly looks; bat we must reme
he cannot help his looks as be did
himself; and the curious grins he sometimes
makes are quite natural to him, he don't need ases are quite nat. He is a particularly hum.
assume antling.
ne nimal, never asserting his rights or comle animal, never asserting his rights or com-
haining about his wrongs. Another thing, the plaining about his wrongs. And is easily tamel.
oad is very fond of music, and
There was a toad lived near our cellar door There was a toad lived near nor cellar door
Thout a monthayo, he and bot tome that
when we called toadie, toadie, he would hop nght up to us; and one very hot day he even
ook a drink of water out of a cup which we clat awn on its side to him. About two ye
cla dhere was a little toad that would hop $u$ ago there was a little toad that would hop up
to us every evening when we began to play an
old concertina, and whenever ww would stop he woul hor away again. There was one key
poiled and when we played on it, it gave some
shat

 roke of our inigest casbate he would neve
of thic sweetest thowers still he
toich them; but before long we found out our
 swallowing them down as though they were
goon. So now we never try to feed toads on
calbage as we see that they have no ta to for grens; and whenever we hear any person say
that the toadis eat their onions and cabbaye
plants, we only laugh at them, and assur
 destroys the grubs and flies that would eat every
evgetalle in the 【garden, were it not for M1. revetable in the Igarden, wey
Toud's indefatigable labors.

We feel much obliged for I. F. I's occasional orrespendence. aad hope it
other C'andians to use their pen.
ditor Farmerss Advocate.
Sir,-I ast year I purchased six bushels Harrison and ous busbel of Goodrich potatoes for seed. From the six bushels of Harrisons I obtained 250 bushels of marketable potatoes, which I sold chiefly to my neighbors at 60 cents per bushel, for sted. From the one bushel of Goodrich I got 70 bushels of large potatoes, which readurs can count the profit.
I hear many people complain that their farms do not pay. I camnot say so, for my general crop of grain, hay, \&c., paid the above I always endeavor to obtain the best seeds, and the best information as to different methods of testing the soil, seets, stock, de., and by adopting what to ru fitable have never failed in making a casonalle profit out of my farm, yearly. gather inuch useful information by conervation, and especially from reading the Farmer's Advocate. W. Williams. Metrillivray, June 20, 1871.
Social Hosors:-Everybody should caltiGate a nice sense of lionor. In a hundred differ ent ways, this most fitting adjunct of the true lady or gentleman is of trien. For instance, one is the guest of a family, where, perhaps, the dhere is sorrow in the house, unit is a diet ly the outer worno bomet is a shame it
and a a grief to the parents; sometimes a are a cloud on the home. Or, worst of alll hustand and wife may not be in accord, and
there nay be often bitter words spokes, and there may be often bittin In any of hesese cases
harsh recriminations. the guest is, in honor, bound to be blimd and deaf, as far as people without any good, it may
If a gentle word within can do any well be said; but to go forth and revea, even
shadow of an unhappy secret to any one, en
to your' nearest friend, is an act of indelicacy to your nearest firent, inparalleled. Once in
and meanness alnost und
the sacred precincts of any home, admitted to its privacy, sharing its lifet, all that you see and
hear is a siccred tiulst. It is as really conhear is a sacred tiast. it is as realy would
temptibe to gossip of such things as it would be to steal the silver, or
forget to return them.

FARMER'S ADVOCATE.

FARMER'S ADVOCATE.

The Colorado Potato Bug.
An Ounce of Prevention is uorth a Pound lorewarned forearmed.
This illustration is made from a leaf we took to our artist yesterday. The spotted into the ground to become complete, as in the spotted form it has no twings. - The striped bug is the gentleman fully equipied with wings, and ready to reproduce its pecies. The spots on the leaf are intended to represent the eggs. The bugs are very ound on the back, rounder even than tuller ppear intions will appear, but at this early lage of the posts ravages among us little s as yet known about them, or at least fa ss than we ought to know.
Farmers, we have now in our country an vading urmy of destroyers, a thousan times worse than the Fenians, worse even tham a war between Canada and any othe "untry, it may be more expensive and more iestructive. The destruction cansen by a ar is confined comparatively to a country -though other sections of the councy hay be called on to finstroyer will sweep rit this invading destrst injurious effect will follow. One-fifth of our food will be thien from us, and that fifth is the kind that the poor farmer, the poor mechanic, and the poor settler most depend on. The lo-s will not affect the rich, but tend to an rease their wealth, but the poor farmer, with his large family of children, who depords on the potato as a main support, Itill be sadly tried. The poor widow and whau will he oppressen, many young usples will postpone matrimony, and chousands of poor innabice durived of the necessaries and comforts maly lodged in our midst that no teret trial power known can stay its progress Bit we may, ly close watching and indus , ur crops that would otherwise be toun aron The loss in some sections wiil be considerable this year ; it may be Teatly reduced by timely attention, and or labors be lessened for another year, by destroying the few advancing bugs as soou wound, to prevent their rapid increase
origin.
These insects was first seen in the Rocky Humantans, and gradually spread themyhes eastward, over all the states between Camada and the Rocky Mountains. They alpear to increase in numbers and der They womess as they advance castward. They
in this city there is a remarkable instance.
west.
 bug on potato patch. They were first seen a potato
No. 2. No. 2 has neglected his patch and allowed them to breed ; No. 4 has watched his closely, and picked off every bug as soon as seen, and they continually reappear, no doubt from No. 2; No. 1 has closely watched his potatoes, and never the fence from No. 2.
The larva is deposited on the under side of the leaf, and is of a yellow color; they remain there about a week; as they mature they begin to draw from the plant and crawl along the leaf, emerge from their covering and become a dirty brown. They appear to change their coat again and turn to a dirty yellow; in this form they have two rows of black spots on thes, increase in brightness until they
sides gain uearly full growth ; iu this state they have no wings, but descend into the earth for another change, and come out arain clothed with wings, having ten a mel-
stripes, alternated with as many of a yel lowish cast.
There appears to be no end to their voracious appetite. They eat night and day, and in all stages; neither smin or frost seens to trouble them, as they can lay embedded in the ground, and emerge on suitable occasious.
We have not been able to devote as but have experimented on numerous modes of destruction, and find nothing equal to the finger and thumb for destroying the larva. It is quite soft, and a slight pres sure destroys it, and saves the lhan gathering the We think it better the bagg to be poisonous, but we are alive still, and our hand is in no way swollen, and we have killed the bugs and larva with our
hand by the thousand. But we think they miglit be injurions if the flesh on the hand was scratched or sore.
parts green
Is a rank poison, composed principally of arsenic. We apphed it irst in an destroyed terated state, bat form then in using the vines. Care must se thold be allowed near it, and you should aroid inhaling the fumes or dust. The best way to apply it is to get a tin box male"like a flour box used for cooking. Have a socket handle Soldered on it at an angle of 45 degrees, hen put in a woodeu handle so that you can keep the dust away from the operator. We applied it in the morning when the We appleo and at night nay quautity of dead bugs could be picked up.
Do you want to save your jotatoes? If The second crop of bugs will be nearly a The second cop - the third crop you may estimate bythe car load-you cannot count them. The early potatoes may be saved and the late ones may be destroyell, even as far east as this, unless a great deal of care and labor is expended.
To our readers east and north we say,
look out for the enenyy and attack the ad-
one. We expect you will have the
-and most probably they will reach Europe in a'year or two more. They fly, and
attach themselves to anything. Their attach themselves to anything. No
standard is- to the East! to the East standard is-to the East! to the East
and they appear not to be satisfied with and they appear not the be satisfied wion crop, and will have it too unless they are vigol
ously attacked. Some say that ducks wi ously attacked. Some say that ducks win
destroy them, but we have not tried the destroy
remedy.
Last year we spoke of the approaching pest, and raised a warning voice. We ha a suggestion to offer, to attempt to repe
them, but they will be worse than we then them, but they will be worse than we then
anticipated. We have not gone into the elaantrate display of latin terms,species, habits, \&c., as Entomologists will do, nor are we
as well informed as we should be, having as well informed as we should be, having
so many things to attend to that we can so many things to attend to that we can
scarce find time to pen this article, and even after it is penned the printing and postage must be paid from our own pocket.
We hope that among the thonsands that We hope that among the thousands
now take our paper some will be benefited sufficient to induce them to aid our circulation, and enable us to continue our researches, and to im

The following article
The following article relative to the potato bug
The proper name of the bug is Doryphora leceno-in neaia, orit ten lined spearnan. This
beetle is about three-eighths of an inch long, oval-siaped, of she sack stripes on eacil wing cover.
five black comes out of its winter quarters, in the cround, in May, or as soon as the potatoes
have started, and soon commences to deposit
co its egas, which are light yellow, in clusters of
twenty or thirty an the under side of the twenty or thirty tin the amount of about seven hundred. These are hatched out into larrex in six days, which imwediately com
mence feeding upon the plant and attain their mence feeding upon the plant and attain their
full growth in about two weeks; they then full growth in abort und, where they pass into
descend into the ground
the pupa state, and come out again in the the pupa state, and come out again in the
shape of perfect bectes in frout ten to tifteen
then days. It will be thus seen that it only takes
about fifty days from egg to egr, and the inabodt fifty days from eggg to e.gg, and the in-
crease would be enormous during a season, if the eggs were not destroyed in some maner.
The Colorado potato bug started out on its The Colorado potato bug startet on home in
devastating march from its native the canons of the Rocky Mountains in 1859,
invaded Iowa and Northern Missouri in 1861, nvaded lowa and Notthern Missouri in 1801, crossed and Wisconsin, and appeared about
Illinois and
the center of Indiana in 1868. It thus apthe center of Indiana in 1868. It thus appears that its progress towards is here now,
been about 60 niles a year. It -probably in every potatu field in the county
-and it is a matter of scrious consideration -and it is a matter of
Lime, plaster, brine, coal tar, and every Knome, plaster, instroyer, has been tried, with
wot little it any success. Neither ducks, turkeys, geese nor chickens win toich the beethe have proved, at all destructive have been Paris green and powdered
dangerous remedies.
Probably the only practical way of guarding Probably the only practical way of guarding
against, or lassening the danger of a total destruction of the crop, is to commence a war or on their very first appearance. When first on their
their presence is discovered on the plants set men immediately to work to examine ever
plant, and pick off every bug and leaf havins plant, and pick off every bug and leaf having
a cluster of eggs upon it, which should be a closter into tin buckets and atter wards des troyed. Where they have not got too much
of a start, this labor is not so great as it would of a start, man being able to go over near-
seem-one main ly an arere in a day. Whoever fails to take
this or some other method of immediately this or some other method or in insect has
destroying these pests before each
dedted multiplea himseli by seven hundred, will se Wherever a pair of the beetles is discovercd, very leaf within a radius of sev.
be carefully examined for eggs.
After all, however, the only effectual check the ten-lined spearman will be found in its the ten-lined spearman will be found in its
natural cannibal and parasitic insect enemies. One of the best informed agriculturists of Hilinois has estimatect the damayes anising the citizens since its
this bug, sillions of dollars.
poisoned by a potato bug The Walworth County Independent, pub-
Thed at Elkhorn, Wis., gives an account of a ished at Elkhorn, Wis., gives an account of a
armer's dauglter, liviug near that place, who while killing potato bugs was suddenly seized with a violent pain in her finger which soon
xtended to the arm, and her arm became swollen very rapidly. She went to the house
and a physician was sent for. When he arived, some two hours after, the arm was the color of mathogony, and was swollen to a fear-
ful extent, the swelling extending to the ful extent, the swelling extending to the
houlder.
Prompt remedies were applied to relieve the poison, and the girl is now recovering. She had a slight sore on her finger
and the poison was probably conveyed to the and the poison was probably conveyed to the
arm through it. It was a very dangerous type of poisoning, and people should be ex-
cedingly careful how they come in contact with the potato bugs.
will it pay to raise potatoes.
This very important question should be dis-
cussed now, if ever, when the potato bug is cussed nove, if ever, when every man against the agaiast every man, and every man against the
potato bug. Let us begin if you please by
polling eact his experience in the matter and telling cacd his experience in the matter, and in the end we may hit upon the right solution
of the fuery. This is the third year that I
have abstaine trom ple of the query.
have abstined from planting a potato,-and,
although the bugs are rapidy disappearing, although the bugs are rapidly disappearing,
they are still to be seen crawling about my they are still to be seen
garden in hated numbers.
All the anti-bug remedies in use were used,
including picking, and that ${ }^{5}$ without effect.including picking, and that ${ }^{\text {s }}$ withont effect.-
The potatoes grown were the newest varieties The potatoos grown were the newest varienies
introduceld from year to year, my object in
growing being to test them. The deduction I nake from my own experience is-that in planting the potato, not one year, but probady several years of such abstention may be necessary That this can be done by our farsince, if I am correctly informed, there is a larse area of land in this state where the bias and frou which the affected parts of the state phace last fall, and seems to indicate the fu-
ture. Is it better to buy and eat potatoes rom our neighlbor, or to continue to plant
them - to give them time, labor and money With regard to the present remedy-Paris
areen-those who vise it should know that it is looded with arsenic. I speak knowingly of The article sold under this name. This, says
Pruf. Daniells, "ought never to be put upon
hoil.

The Professor's views upon the effects of The Professor's sein and upon the potato
would be of great interest to the farming Another question: Does any one kno whether the quotato buy has ever vacated the land he has once invaded? From all I can
lean he marches not only to ocupy but to
hold.
Joseph Hobisiss.
$\therefore$ An article by Prof. Daniells, in this issue, Garis Green. We think Dr. Hobbins must be misinformed as to one point. We do not
now of any considerable area in Wisconsin -where potatoes are grown-in which the Colorado beetle has not made its appearance. n some pluces it appears in greater numbers
than in others. We are not sure that the advice given is not wise. Certainly it it better not to plant potatoos, than to plant them,
rive then considerable care, and then abandon ive then considerable care, and strongly impress upon any one who proposes abandoning hem up, covering the vines-and so of toma-
oo aud egg plants. No plant should be allowto aud egg plants. No plant should be allow
ed to stand, serving no other purpose than to
supply food for and increase the number of supply food for and increase the
this great pest.-Western Farmer
the use gf paris green.
Paris Green is Scheele's Green (arsenite of
aduterated with barytes, copper) aduterated with barytes, gypsum, or
carbonate of lime. Scheele's Green contains 29 per cent. of copper and 71 per rent. of arsenious acid-the white vitrions substance
sold by druggists as arscoic. Paris Green then is a dangerous poison. It is insoluble in
water, hence when put upon the land becomes water, hence when put upon the
as permanent an ingredient of the soil as if it
were so much sand were so much sand.
There is no evidence to show that plants
ever take this substance into their circulation
and the laws of vegetable physiology would
and
lead ns to believe that if they do so at all it lead us to believe that if they do so at all lit
must be in the smallestlquantities. Notwith
standing this i tion of the a
use upon an

beetle for 0 | oetle for one |
| :--- |
| that he is will | ctive poiso soil, upon hii

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It is not mer use of it him
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What is to the future?
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An im Patters new va steadily and the
ous ne
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FARMER'S ADVOCATE.
standing this fact, let a man make a calcula.
tion of the amount of this substance he will
use upon an acre in destroying the potato
beetle for one year, and then satisfy himself use upon an acre in destroying the potato
beetle for one year, and then satisfy himself that he is willing to sow that amount of an soil, upon lis land, before he continues the soil, upon his land, before he continues he
use of it himself, or advocites its general use. It is not merely a question of the present.What is to become of efor mineral poison in the future? In may never be a source of evil
but no one can avoid feeling a little distrus
, upon the subject.
There are the main reasons why I have so
often objected to its use, and I still feel that often objected to its use, and I still feel that
those who use it, and advise others to do the same, do not fully realise that the danger
not past when the substance has been sifted not past when the substance has been sisted
upon the plants and no one has been poisoned. At least it cannot be too often or too emphat
ically brought before the public that in usin ically brought before the public that in usin
Paris Green they are sowing upon their land Paris Greeen they are so poison which will remain there as one of it, conetituents, unless removed by
those slow natural solvents which are conthose slow natural solvents gredients of the soil. W. W. DANiell
paris green and its effects. It is well that the subject of Paris Green as an insect destroyer promises to se we it is now being used sonsively. fffects on vegetation, and if there is danger to life or health in the use of it let it be shown up. Three or fonr years' use of it in a com munity but as yet I have seen nor heard of none any, but as yet
I see that Prof. Daniells asserts that the quality of the potato is injured by its use; it
may be, but how? Is it absorbed by the vines may ce, raied to the tuber? I heard this so
aud cars
stated three years ago, but the person so be be lieving then uses the article now, and has n
fear of injury either to the petato or thos eating them.
Others as well as myself have raised as goo
quality of potatoes where the poison? has a quality of potatoes wherher poison: has
been used as could be wished; but the past season the quality of them of all sorts was fn ferior, which may be safely attributed to the
hot season rather than to the effiects of the hot sea
As regards the degree of strength necessary
in using to kill the beetle, I can say that I know trom exspenat if, reduced thirty times it and the last, that if reduced chirty times
will kill the beetles, , but it requires time
enough for them to eat the leaves to which it enough for them to eat the leaves to whicin
is applied before it takes effect, for their coa is applied before it takes efisct, Yesterday
of mail is impervions to poisons.
put some of them into diluted carbolic acid put some of them into $\begin{aligned} & \text { and } t w e n t y-f o u r ~ h o u r s ~ a f t e r w a r d s ~ m a n y ~ o f ~\end{aligned}$ them were alive and kicking. But when the
Paris Green mixture is applied to the younger bugs or grubs it takes effect immediately, an
adheres to them and is absorbed. A frieud of mine, who is reliable, says he has reduced it mine, who is reliable, says he hect on the young, but not as quickly, yet , doubt
sufficiently strons to kill the old.
I hope there are some who, with a well-de-
veloped crop of curculios on their trees, will them. If they find it effectual in destroying the "Little Turk," and saving some of their fruit, they will not be obliged to eat it if they
think there is danger of being poisoned, but they will have the satisfaction of having used hem another year $\qquad$ G. N. Smith.

Deterioration of Vakeetiks or Potatoes.-Mr. W. Patterson of Dundee, potatoe for many years, and in many ways, Is of the opinion that anyed by repeated planting, and that each would ultimately die out; new kinds produced from the seed are the only hope of preservation of full health and vigor. in view of observed facts, but because the theory is based on good sound reasoning An important suggestion made by Mr Patterson is that this work of producing
new varieties from the seed should go on and then attempt the production of vigo ous new varieties from seed produced-bs
the failing variety.

## How to Have Good Mutton.

 The sheep is a delicate feeder, and makes il the butchers' meats. Like most ani mals, it improves in flavor by age, and attains its perfection, in most breeds, at the ge of three years, when it makes, in Dan called because the gravy,though well done is red and of high flavor. In feeding sheep for the luxuriots table, there should be but few together, which allows them In large flocks the strong sheep monopoize the best herbs and grasses, and the weakest ones are poor and mean meat; besides, there are always restless sheepwhere many feed together, and the others where many feed at ease while auy are on foot. Sheep well-grazed are better than the stall fed, and have that "gamey" and juicy flesh in the British isles are the small Welsh in the british-isles which have the wide range of those mountains.
But the best sheep in the world are
often spoiled by bad butchering, and I propose to show how this should be done Many persons becom ecasgusted wih, ane
never eat, mutton, because of what the never eat, mutton, because of what sheep
term the" wool-taste." Now, a
well dressed, may be wrapped in the skin well dressed, may be wrapped in the skin
and wool, as well as in the purest linen and never have a "wool flavor,"
testines of the sheep are, like those of all the ruminating animals, very long and powerful in capillary absorption; and, if
allowed to remain in the body after death allowed to remain in the bory after death,
infuse the odor and flavor of their contents into the meat, and thus give that ill taste. Everything, then, depends upon rapid
dressing. While yet alive, the sheep dressing. While yet alive, the sheep
should be suspended ly the hind legs, well apart, to two pegss or hooks, to a ciloss-achei
ber, so that the body may be easily reach on all sides without turning it. The butch er should be prepared, with a sharl) knife, a block, or low stool, to stand upnn, if need be; for the sheep, when suspendel, is too
long generally to he reached in all parts. The throat should then be cirt, severing ooth arteries, and the Bergh is arbeut, the
out. If Professor Bect
animal may be knocked on the back of the head with the pole of the ax before
using the knife.) The skin slould then be using the knife.) The skin should the parts to be cut in taking out the intestines, and pinned back, so as freely to allow that
operation. This finished, the blood should be well washed out by casting on the body
clean water frecly. Should the intestines at any time be broken, let them be tied up at once, and the soi ed parts well cleaused well dry, when it is ready for use. Mutton well dry, when and mever ought to be salted,
(and all meats) if possible, until it is ready for the cook.
Salt absorbs the juices, dries and preserves the meatd be hung in a cool, dry place,so that
sho all parts may be aired. Do not allow it to become frozen, but if frozen, it should be used at once, if possible. In som
parts of Mexico, beef will hang in thie air ior weeiks in the warmest weather, becaus
of the dryness of the climate. The Indian and hunters dry their meats with slo

Boughton Wheat-The Boughton is not a new variety. We have known it in yestern New York for a acezen or fifteen
introduced there from Maryland. It ripened early, and could be grown in sections where midge. It never became, however, a favorite variety. On good, rich land it produced a fair crop of bandsome wheat, but in unfavorabe sea ons, or on poor, The Diehl has all the good qualities of the Boughton, and is early enough to escape the midge, and is not so liable to winter-kill, or be smothered by noek, Boughton, and Early May are one noek,
and the same variety.

Conjugal Attentions. The duties of husbands are thus laid down
in a discourse by the Rev. Dr. William Aikman :-"The first duty of hushands is to sympathise with their wives in all their cares and labors. Men are apt to forget, in the
perplexities and amnoyances of business, that perplexities and amnoyances on and try the pa-
home cares are also annoving
tience and strength of their wives. They tience and strength of ther wives. They
come home expecting sympathy and attention, but are too apt to have none to give. A sin gle kindly word or look that tells his though of her and her troubles, would lift the weight
of carc from her heart. Secondly-Husband of carc from her heart. Secondy-Mysband sulting them on their plans and prospects, an
especially on their troubles and embarrass ments. A woman's intuition is often better than all his wisdom and shreevdness, and all her realy sympathy and interest is a poiveri. wives in constant attention, in their manner of treating them, and in the trifling oftices of afection which may be havdly noticeable, bit
which make all the difference between a life of sad and undefined longing, and cheery, hap-
py existence. Above all, men showuld beware of existence. Above thenting their wives with rudeness and incivility, as if they were the only person not entitlecl to their consideration and respect.-
They should think of their sensitive feelings and their need of sympathy, and ' never let
the fire of love go out, or cease to show that the fire of love go
the flane is burnin

## Keeping Poultry in Orchards.

 A writer in an exchange says the public lias yet to learn the full advaitages of keepingpoultry. Few seem to appreciate what they
nay don may do among trees in an orchard of a quarter
of an acre, where they may be kept by a ipicket fan acre, where tey may be kept ay apicke
fence four or tive feet hiyht putting in say
125 fowls, and obscree the result aroid the annoyance in the garden (f) which
so many couplain, while they will work so many compain,
among the trees, doing just what is needed;
keeping the ground weil caltivatel, and des troying everything that can injure the fruit,
in the shape of burgs. worms, or other insects. lay a large number of ergs, which are a cas artcle, to say nothny ot the present time. 1
will pay for raising tat the the
have tried it and know it is so. I Iave ahout among my trees, keeping the gromd in good ing the growth of the orchard. I am satisfied that we have yet to learn the
which may be derivel from the proper man Which nay be denvend it is quite , possille that
agenent of fowls, and
the encthod that I have surerested may offie the methou that have sygyested may of

## Swamps-配rainang

## A proper degree of draining tends to protect crops from injuries which are the result of ex-

 often been sufficient to r .
plains exceedingly fertile.
There are probaibly very few farms of any ex-
tent, on which drains are not more or leas
 Cheir possessors till they have been theroughly
ameliorated by opening clannels for the pas

 As an instance of successful and economical
draining, we may mention the the fore Rev.
I. Huntinston, from whose communication th
the 1. Huntington, from whose communication to
the commitee of the Happshire and Hamplen
Agricultural Society, we gather the following Abricult
facts:
was fe
 vicinity ond his hombent unhealthy. In rectlain
eyesore. and
ing it a ditch three feet wide, and two and a half fee
deep deep, extending through its whole tength. entir
bor-feads were then cut, taking offt the entir
surface where it was thought to be necenir surface where it was thought to be neceesar
and removedto an adjacent lot, the soil of which
was was sandy. Here they were made to act an
manure, and being intimately mixed with it they soon so far improved its capacities, as full
to recompense him for the cost and trouble in
rolved to recompense him for
volved in their removal

The greater part of this soil has had cropa ole, it the time the report was presented to
ce committee, was fit for the plow. What tlo apelise was, Mr. H. expresses he heopr unatio to the improved value of the land. The cutting "bog-heads," could not involve a very heivy outlay, as the work was performd at "odd jobs,",
and when, probably, the nen had nothing else o do. The North
of this subject says:
"As to intrinsic value, lands thus redeemed
ure to be ranked with the very best. For some crops, broom-cornu and beans for instance, other
cils are preferable. But or the standar one tantial crops of Indian corn, potatoes, oats and ifforent kinds of grasses raised in our valley, bo better lands than thase thus reclained.
Having nothing in view but to subdue aud imcen particular to ascertain precisel the quan-解 of crops raised. Compared with those rais-
 nanifestly the advantage. It is naturally nanifesty the advantage yove is haturally
ticher. $H$ Hering for its basis chay or hard pan,
tretains the manure put upon it much longer.
 reshets, it it
rood heart."
Covered ditches are nsod to $a$ considerable
oxtent, and answet iul tho purimuese of draiuing


 suliet is maje at the bothon sox metios square



 ridges orregenters, but the entire surface is leve
 ses a permanent officiency and value it is
made of various sizes, with and without bottonis, nade of various sizes, widy an the siles mo os to re-
meive the water rat whateted or r point it may flow in eive the wat
pon them.
We have covered drains across a t twelve acre
Lot, diagonally made of stones, with a six inch reet, whillons of pure water every twenty four and
hours througl drait the late drenyhtht. On the
round thus drained we have juut cut, by the estimation of goon judges a crop of herd grass, ced top and clover, equal to three topis to the
cre, where two years ago only one ton of neadow
nase

Where stones are 1 lentiful on the farm, they
ary the material we ouslit to use in under lraining. If stones catnot be hatl, draining
tile, which can wow be cltanined at most of our Agricultural warehousee are far more prefer
able than wood, and will be found more efticient,
as well as more prolitalle, in the eud as well
Far.
A gentleman relates chat many years ago he
was on a visit to the Isles of Man, and during his walks he strolled luto the quiet church
yard, where reposed the bodies of many taithful and humblo! Christian. Near a grave in the corner of the churchyard he noticed
lady witha litle girl' (the latter about lady with a little giri ( (che latter about twelve
years of age) to whom she was relating the years of age thairyman's Daughter, whose r mains lay beneath their feet. As the lady
proceeded with the narative, he obsserved the little girl lift up her eyes filled with tears, and
heard her say that she would try and be a good as the Dairyman's Daughter had been
Oiter After planting a beaytifulu dily on the grave,
they walked slowly away, The the upon making inquiry, found that the lady was
the Duchess


> Curiols Case at Law.-At a recent sit-
ing of the Division Court at Cataraqui she
 three ho:ses in pasture, and in this pasture his neighbors cali was allowed three hirses. The
eat off the tails of the the wner of the call knew its propensity, for it The Judge at once allowed the am.
ed, and thought the amount fow.

## Rarren Apple Trees－Ho

Through the kindness of the Hon．John Whittleoey，the Herald is able to iay the ＂First，the Northern Spy，Red Astrachan， nd a number of other choice varieties o apples，have falled through this region to lear yeirs ago，Dr．Hull，of Alton，delivered a lecture at Benton Harior，in which he recon－ mended root pruming．Mr．O．A．Winchester
of St．Joseph，of Archer \＆Co．s Nusery，had of St．Soseenh，of Archer \＆Co．s Nuisery，had
ten Northern Spy appie rres，thireen or ten Northern sears od，which had never blossomed，
mor born a crop．After the lecture，though la or born a crop．After the lecture，though rool in the season，he and half root－prune another． Last year，no tavorable results appeared，pro－
baty from the lateness of the root－prunng－
亚 This year，the tree which was root－pruued ail
around，is full of blossoms，while that side of
the tree hall root－proned alone is full of blos the tree hall root－pruned alone is full of blos
soms，the un－rout pruned side having none a soms，the un－rout porthern Spy apple tree，as
all．Every otier Nomer usual，contuins no biossoms． ists to try the experiment this season．Now ists to try the experiment this season．Now
is the enime to venn，and the work of root－
and pruning

Management of Fruit Trees that Bear Every Aiternate Year．
It is common for many fruit trees to yield crop of fruit ouly once in two years．Some pomologists have assumed that the fruittu year calendar by an uneven number；and the observations of others have been confiutd to repersented by an even number in the com－ represented of centuries．Thus far in the pro－ press of sceenuticic poniulow，y，no plausible rea
gun lias been adduced to show why the fruitfu sun lias been adducted durng a year designated by an even or an uneven number．This fact that fruit trees，which have been accustomed
to yield a crop what we denouinate to be an to yied a crop wear，＂have been so manazed as to pro－ duce the accustumed supply un an＂even year，＂assures pominowists tive the fruitul
ness，or want of prodictiveness，is not in－ nebs，
fluenced either way，by the seasoul represented by anl odat or an tion of a few po The presentation of a few pomological facts duubt，that the frututuiness of a tre－－aside from certain ceuses beyond the conrol of laws，which every intelligent pomol，gist un－ derstands．It is mandenstiod that the f apples must te produced during the season o 1871 ，were forlued in the growing staion of
1870 ．If there had been any ocurrences to tie tree，could not produce fruit during：the season oi 1871 ．It 18 well und rstond，also that when a tree is srowing rapinit，it camo
yield a bontiful supply oo fruit；mad when every branch and twis bends with a heavy crop，the spray and the buds calnot be ex growth．Hence，so barye a proporiin of the
vital energics of the fruit tree bearing a heav bnden of iruit，is employed in the devei．p ment of the crop，that hee bots be properly un－
the succeeding searson cannot
folded．Thirefore the season fullowing the year of an abuudant crop is appropriatel solely to the devclopment requing the energies of the tree，the whole vital force is concentrated in producing wood and fruit buds．The next
season，whetier the year be odd or even， season，hietier inade preparation in buds，
nature having
there will be a bountiful crop of fruit；and if none of the buds or young fruit are broken towards the full developiment of the fruit， the serious neglect of the crop of buds．apı tree，which yielded a bountiful ciup of appess tree，in two years．He expressed a desire
once
that pomolucisis cold have sutficient skill to that pomat ree bear a moderate crop of frait make that tree bearer than a heavy crop one
every season，rather
year and nothing the next，as the variety was year and nuthing the next，as the variety was
so excellent，they gratly desired a smail
He was as s upplv，at least，every seison．He was as－
sured that if he would wh．p off all the bios som：on one hald the tree－top，the purtion
defoliated would yield a supp $y$ the next sea son．As he knew that if the tree proould
fruit on only one half the tonl，thre would
more than his family could make use of，he from
while $t$
no fruit．


reluctantly tried the experiment，in the success
of which he cheished no cuifidence，and of which he chee ished no cuifidence，and
whipped off every blos．om to be seen within
the area of the area of about half of the top．The result was just as it always will be under simi ar
circumstances；theie was a supply of fruit，
cthe the folowstances；theie sason，on that lyat of the tree
from which the blossons had been removed．

The same result could have been attained by whipping off one laalf or more of the blos
soms over the entire tree．By removing the lossums the specimens of fruit would have seen greatly lessened．Hence the entrgies o
he rree would have been adequite to the per－ ect development of the limited crop，and also the preparation of the fruit Suds Ediard
crop of the succeeding season．－S．EEdar tail，viz：－Glycerine two ozs．，sulphur，
one ozetate of lead two drachms， water eight ounces．To be well mixed and applied by means of a spong

## Swindling Honest Farmers．

 We copy the following from the WilliamspoDaily Gazette，and it suggests three points f Daily Gazette，and it suggests three points for
cantion to all farmers，namely，to be careful never to do no business with other than trul
honest and honorable men，no matter how goo honest and honorabe men，ino nlly，keep out of
a bargain is romised；seond
the way of entire strangers；and thirdly，be the way of entire strangers；and thry ary，
careful about signing your names o any yapers， huless dealing with ond neigy
whose integrity is established． whose integrity is established．
Among the many swanding operations of the
day，the patent right dodge is largely practiced day，the patent right dodge is largely practiced
on tarmers，and we have heard of several cases
on tris county within a year．The following note it this county within a year．Me thlow harpers．
is a copy of one now in use by these shar
it will appear at first siglt to be very simp．e， It will appear at first sighit to be very simp．e，
and no person wishing to take an agency for
any any of the many patents，would hesitate to sign
ait
Smithinile，PA．，April 15th 1571

Sminvilue，Pa．，April 15th 1571.
One One year after date，I promise to pay
order，Two Handred and seventy order，Two Hrndred tha seventy for value received，at ter per cent．per payable at Smithoille，Pa．
Now，having read the above carefully，and
supposing it to lea all right for ten tolllars，just
 left－hand piece is a perfect note for $\$ 2 / J$ ．Hend a
ing inducel a firrmer to iccect，an ageny，a
specitied in the original note，and having ol specinied in ineture，the sinarper departs．
tained his signat
the
 needing the money．The signer is gcuevally
responsible person，well known to business me


 the conntry．．ref 1 ，in order to guard against
preserve it
being imposed up on by unscrupulous s soundrels．

Crops for Soiling．

 Cuery important branch of their busmes
Cabbage is mentionch as one crop that might we grown with proht，and for late fall and darty winter feed，I have no doubt it womd prove
highly renmulative．Hive often fed caibloag
 excellent for store hops，and if one was conk
ing food for fattening hoys， 1 thank calborg nimht be put into grod advautaree．
But whit 1 wisin now to uree particularis But whit 1 wish now to urye particnhary
on farmers，is the mofit of having valion
 summer and tall．One thian is necessary on a more land ta pasture enere eriun gowing in the main bushess，and it is unfortunate the，It the
painture comes shuat of supp yugy the deluand pasture comes shent of suad a a a anst toonin tiese may be cut and fed to cattle elther on titell pisture or in the yards or stables．Rints sup－
ply of food should be such that it may be
saved for winter
before．
Clover is the most convenient，and the Clover is the most convenient，and the
earlest forage plant for use in the first half of
 near the barn，to cut for the teams and cows，
if $J$ une pasture is not sufticient，and in any if June pasture is not sutticient，and in any
cave it will le found extremely handy for the
teams if they are hard sorked cave it will he fonnd extremeey hand piece can
teans if they are hard vorked．A
eaily be cut over twice，and if there is a sur－ easily be cut over twice，and if there is a sur－
plu，it is where it can be readiy make into
hay and stored under cover．One acre of good hay and stored under cuver．One acre of gond
c．lover feed in tiis way is cqual to four or live a reses in pasture．
Next，a patch Next，a patch of corn，sown in drills，shonld
One prepared for later use．ane of this
for law anner and early fall us．is equal for late sumer and early fall us＇，is equal to
seven or ciryht acres of pasture at that time of year．One acre to a dozen head of cattie win
help out nelp out largely ine the seasonn shomid are sufti－
and if otherwise，and the pastures are cient，it will make a larye quantity on whing
food．In either case there can be nothing lost，but much may be grined．

## For the Farmer＇s Advocate．

## Home．

Poets have written and choristers suns
Of the beauties and pleasures of home， Of the beauties and pleasures of ho
Still＇tisa a the e that never grows old
Whatever the changes that come．

The house on the hill，o how dear is tbe The bridge oer the brook，the spring by the stone，
And old Ponto who watched us from harm．

Our fancy returns to the garden and lane，
To the hawthorn that stood on the top of
Where the birls sang their beautiful lays．
The trystins－tree，too，we must never forgei It stands at the foot of the lane；
On its soft smooth bark our nimes we carved，
And promised to meet there again．

Sharp or
bearer ten dollars when I sell by Worth of Seecling Machines in Smith，Agent for A．Brown．

Hew to Produce Sexes at Will
Although stock breeding has long bee Alated to a science，and many valuable levated to ased as to the means of im－ proving stock，yet but little has been ac－ complished in the way of regulating the production of the sexes，which ottentumes sock raiser．That such is not impractic－ considerable success．One of the first writ ers on the subyect（Curra，who observed niat the quale esers atterwiods；that with hen the first haid egts give iemales，the list
male products；that young hulls who meet mie female at the first simns of heat gener atho are exlausted and do service later Ho mares shown the stallion late in their
that mat horse colts rather than fillies puriod drop horse colts rather than fllices． iollowing law for stock raisers：＂If you
wish to produce females，give the male at the first sign of heat；if you wish to pro－ dhee males，give him at the end of the heat．Acclebrat the Swiss Agricultural
of the President of Society，Canton de Yard，in putishing the
experience in Iec67，says，in speaking of the accuracy of this law：＂In the first place sired to liave heifers．My cows were of Schwitz breed，and my bull a Jine Dur－
ham．I succeeded in these cases．Having ham．I succeecter in these cases．Was very supercede the one I had bought at great expense，without leaving to chance the
 cess has proved onte more the succeas
the law．I have obtained from my Durhan bull，six more bulls（Schwitz Durla bull，six more bulls（schwitz
cows，）for field work，and，having chose Thury．＂
cows of the same color and height，I have
obtained perfect matches of oxen．My hatained perfect matches of oxen．My ge－in short，I have made in all twenty－ ine experiments of the new method，and in every one I succeeded in the production of what I was lookng for－male or female． periments have been made by myself，with－ out any persons intervention；consequent－ y，I do declare that I consider as rea，and

It is sufficient to say that experiments on the sams law have been tried by cther eininent Agriculturalists with equal suc－
cess．

Hundreds of our realers will doubt and even ridicule the idea as thousands before Them have doulted other good discoveries against any novelties，we quote the follow ing as illustration：－

Роtatoes in France
It is reported that one day，in the lab－ oratory of
Parmentier＇s hand for ac chemical purpose． He examined it with atteution，and enquir－ ed of the Professor whether it was employ－ ＂Ah＂，sail Parmentier，＂pigs are no bad judges－they discovered trutfies；why not jollow their example in this respect also， and eat potatoses？＂＂The Professor assured food．But Parmentier was not to be dis－ suaded from makiug the investigation． Inviting two or three friends to assist in the investigation，he boiled a pot of nota－ toes，and ciljoyed them mish of potatoes serv－ and his Queend found them，as Parmentier had declared，an excellent vegetable．But their introduction brought upon him some $\left\lvert\, \begin{aligned} & \text { angry criticisums from the＂riends of the } \\ & \text { people，＂who declared that the common }\end{aligned}\right.$ people，were－thanks to Parmentier－to be ped on food for swine．Happily，this pre judic sided，an the potatoe became an
tion＂of the dinner－table in France as well as England．
How to destroy linsects in your Orehards．
The address of $J$ W．Roben before the Dyaiess County（Illinois）Horticultural Jo Dvaiess County（Hos）mints relating Suciety，has some excenent especially the to orchard culture，and and he recom－ epretiations or chardist to observe these mends every orchardist
1st．＂Encourage thie black－cap titmouse and the hairy woodpecker，which destroy the insects in the pupa state．
end．Light small bonfires in the orchard， on dark nights，alter the sun has set．This will destroy the moth．
3rd．Pick up wormy fruit as soon as it
ails，run it through the cider mill，or throw it to the hogs to be eaten．
4th．Strips of wooden cloth tied around the trunks when the trees are in deom，and examined twice a week，wil destroy those that have escapeed and craw generall in a transformation state，between worm and pupa．
5th．Place a bunch of weeds or soft hay in the crotch of the trees at the same time， to look at these dishes of heautiful fruit， to see how this insect destroys the appear－ apple．
Brother Horticulturalists，up and be doing，bearing in mind that eternal vigil－ ance fruit．＂
He who does his best，however little it nay be，is always to be

## FARMER'S ADVOCATE.

## atouth's Alpartmont

## Answers.

to puzzigs in june number. Correct answers returned; No.1. S. A.Ayerst,
Talbotville; Maggie G. Brow, Bryanton James A. Potter Berlin. 2. Bella, Magrie G Brown, J. A. Potter, J. A. Ayerst.
G. Brown Bella. 4 and 5 . Bella and J. A,
Ayerst.

 give int. Brown

## 010

Something Pleasant.
word PuZzLe.
2 My first's in the past, not so in the future,
Second comecting all nations, but not found in nature, the tempest but never in calm,
Third, seen in
Fourth, neer found in field, but exists in the Fifth, seen in in the lightning and heard in the Sixth, not in either, but awakens in wonder,
One third of the sea my seventh does make, In forming all worlds my eighth does partake see,
Only reared in the dark, what then can they be PUZZLE My first most eagerly is sought;
Given free by some, by others bought; Oft gladdens and oft grieves;
And sore the suffererers heart it wrings, And sore the sufferer's heart it wri,
Yet often pleasure with it brings,
The would it makes relieves

My second is of varions makes,
And various are the hues it taikes For when by some tis seen as green, By othlers its as plainly seen
Red, white, and even blue.
My whole, a medium for my first
By its own kind is often curst, With own spite and bitter spleen.
Wi Govern is by their asseve The Governor is by their asseveration The most virtuous men in ail crealion
But that's not so,, $\begin{aligned} & \text { ween. } \\ & \text { Constant Reader. }\end{aligned}$ am composed of six letters:
$M \mathrm{My}, 3,5 \mathrm{is} a$ corjinction
$\mathbf{M y 5}, 4,3$ is boy My $2,3,5$ is a conjunction
My $, 4,4$ is a bovs name ;
My $6,5,4$ is a giris name $;$
My $1,2,3$ is a vessel $;$ My $, 4,5$ is a girs name name;
My $6,5,4$ is a $a$ vessel
My whole is the name of a country.

The Whole Art of lissing. People will kiss, yet not one in a hundred
俍 nore than they know how to make diamonds from charcoal. And yet it is easy-at least beginners, but for the mauy that go at it like
 up like a trout for a tly, and smack a woman on the neck, on the ear, on the curner of the fore-
head on the end of hier nose, or slop over on head, on the end of her nose, or slop over on
her waterfall or bonnet-ribbon, in haste to get through.
The gentleman should be a little the tallest He should have a clean face, athn eye, and a mouthfull of expression instuing little dogs,
Don't kiss everything, includit
wale or female. Don't sit down to it. Stand Male or female. Dontt sit down on in a crowd.
Need not be ansious to get in
Tiwo persons are plenty to corner and catch a kiss. More persons spoil the sport. It wan't hurt any after you are used it. Take the left hand of the lady in your right hand. Let your hat go to-any place out of
the way! Throw the left hand sently over the shoulder of the lady, and let the hand fall down


Her head will fall lightly upou your shoulder'
and handsome shoudder-strap it makes! Don't
be in a hurry $;$ send a little life down your left be in a hurry ; send a little life down your left
arm, and let it know its business. Her left
hand is in your rightht hand. Let there be exhand is in your right hand. Let there be ex
pression to that - not like the grip of a vie
pity pression to that-not like the grip of a vice
pata gente clasp, fill of electricity, thought
a:d respect. Don't be in a hurry ; her head ald respect. Don't be in a hurry; her hear
lies carelessly on your shoulder: You are
nearly heart to heart! Look down into her nearly heart to heart! Look down into he
half-closed eyes! Gently but mantuly press
her to your bosom. Stand firm, and Provi her to your bosom. Stand firm, and Provi-
dence will give youn strenth for the ordeal. Be Her lips almost open! Lean lightly forvard
with the head, not the body. Take good aim
The The lips meet-the eyes close-the heart
opens-the soul rideth the storm, trouble and opens- the soul (don't be in a thurry!)- heaven
sorrow of life
opens before the world opens before, the world shoots from under your
feet as a meteo flashes across the eveving sky feet as a meteor flashes across the evening sky
(don't be afraid!)- the nerves dance before the juist created alter of love as zephyrs dance with the dew-trimmed thowers-the heart fergets its
bitterness-and the art of kissing is learned! No noise, no fuss, no fluttering and squirmNo noise, no fuss, no futtering and squ lon't hurt; and it don't require a brass to make it
 if spearing frogst ito her ciee', squizzle her ii h
down her colla, bite her
ribbons and leave her mussed, rumpled and ribbons and leave her mussed, rumpled an
flummuxed! Don't grab and yank the lady as if she was a struggling colt!


 Husband:- Did it cure any Theumati-m
about here? I am more interested in that than 1 am in fever and asue.
Wife:- You liat letter go over to Judge
Jones and see the certiticates for yourself ; thlere is no question but what they are :anvincing
and I dont think he has returned then to Pro vilence, 1
office is.
 the Judge to-day, for my theumatism is quite

 equa, et the gennine made by Prrie Davis and
and set
Son, and sold by all lorggists and (irocers.:

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Anglo-American Hotel, PIANOS! ORGANS. kingston, canada,
E. MILSAP \& CO., Proprictors.



To Nebraska, CalifornIa, Kansas,
and the B. © M. R. R. Lands. The starting points of this route are at Chi-
caco and Peoria. The central point is BU Rcaro and Peoria. The central point is BUR-
LINGTON, on the Mississippi. It traverses Illinois and the whole breath of Southern lowa. Near the Missouri, its trunk forks into
three branches, for it has three western Its northern terminus is Council Bluffs, Its northern terminus is council inturs Union Pacific for all places on the inter-con-
Uninental and Pacific slopes. Over-land travel tinental and Pacific clopess Over-land trave
and traffic choose tlis reliable route more and
more.
Its next terminus is Lincoln, the Capital o Nebraska, fifty-five miles west of the Missouri
at Plattsmoth at Praitsmouth. This is the only direct
avenue to the South Platte country, where the
sele sales of railroad land last season, rose to half
million. Its third terminus is at Hamburg, it makes
close connections, twice a day, for St. Juseph, close connections, twice a day, for St. Joseph,
Leavenworth, Kansas City, and the whole South-west.
In journeying then, from the East to
jonss, via Buring Kansas, via Burington, you enjoy advantages
you can secure on no other line. You both pouscan secure on no other hine. Youd seond to no other in speed,
safety, or any Pullman luxury of mudern safety, or any Pullman luxury of mudern
travel; and while on your way, survey the travel; and whilo on your way, survey the
garden of Illinois and Missouri, as well as


Great western Railway.

 Day Express 12. 35 p.n. F ; Detroit
p.m.; NightExpress, 11.23 p.m.;

Grand Trunk Railway,
MailTrain for Toronto, \&c., 7.30 a. m.; Day
Express for Sarnia, Detroit and Toronto 11.25
a.m.; Accommodation for St. Mary's
a.m.; Accommodation for St. Mary's, 3.10 p. m.

London Markets.

| Grain. |  |
| :---: | :---: |
| White Wheat, per bu Red Fall Wheat |  |
| Spring Wheat | 120 to 1 |
| Barley.... | ${ }^{52}$ to ${ }^{53}$ |
| " good malting |  |
|  | 46 to 48 |
| Corn | 75 to 80 |
| Buckwhea | 70 to 70 |
| Rye |  |
| Produc. |  |
| Hay, per ton. | 900 to 1150 |
| Potatoes, per bush |  |
| Carrots per bushel. |  |
| White Beans, per bush | 60 to 80 |
| Apples, per bush . ${ }^{\text {a }}$. | 175 to 200 |
| Hope, per lb | 5 to 10 |
| Clower Seed |  |
| Flas seed, | -1 50 <br> 3 50 <br> 50 to |
| Fleece Wool. | 30 to 34 |

## HO HOR MANITOBA!

 FOR SALE IMMMEDLATELYY, 100 Acres of Land, six miles from London, on a arravelroad, 70 acres cleared, 30 arese woods, 1 Wrick House, ruming stream thro
Price 83,500 cash down.
Also, 300 Acres of Land, 40 miles from this city nearly 200 acres cleared, 100 acres woods,
noil frame Barn, Orchard, \&cc, $8(50.504$ ) For particulars of the above apply at the
Agricultural Emporium, London. Many thou Agricultural Emporium, London. Many thour
sands of Acres, consisting of Farms and Wild
Lat Lands for sale
If you wish
medium for
medium for doing so.
cont. No sale no pay.


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where ubhen the that have
invite comparison


 York and Buffab.
CALL \&EXANHNE The STOCK Note the address- HEINTZMAN $\&$ CO., 117 King St. West,
TORONTO.

## PLUMMER \& PACEY'S

$\mathbf{W}^{\text {AGON and Sleigh Factory, Ridout }}$
 Waineo of whien they aro athe tot turn out


Cutters \& Sleighs in all Varieties. GreatSale of Cutters \& Sleighs on and after FIRST OF DFCEMBER, 1870 Warranted first class materinls and workman-
shoDGINS \& MORAN, Richmond St., near Crystal Palaco
London,
L2-6m

## Emporium Price List for July

 implements.Carter's
ved, 8130 . $\qquad$ Drain Tile Machine, \$200. Increased in Collaril's Harrow, 81
Howards Improved Harrow, 822 to $\$ 24$.
Lawn Mowing Machine, 825 and upwards. Send for Circular. Seed Drills, 83 to 870 .
Taylor
825 Burglarand Fire Froof Safce, from 825 to $\$ 675$.
 36 inches diameter, 810 to
crank, or yoke and wheel.
American Amalgam Bells.
Stump Extractor, $8.80,875$ and 8100 .
Reaping Machine, combined, 8140,

 Hinkley's Knittng Machine, $\$ 30$ to
Tumbling Churn, $\% 4, \$ 5$ and $\$$.
The celebrated Blanshard Churn.
Sewink Machines any stitch and all price
Grant
Hay Fork, with Pulleys, 812 .

 durably constructed, and does the work com-
pletely. Price 834 . P1 to 816.
Good Horse Powers, 850. Do- with Wood
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The Upper tension is on the face-plate. The
discs between which the thread passes are at-
tached by discs between which the thread passes are at-
tached by a stud to the tension spring, which
is flat and placed on the inide of the face-plate, its upper end secured to the arm, and is isegulat-
ed by a thumbscrew in the face-plate.
The Shuttle Movement is obtained from
the shuttle-cam on the shaft, which is designated as a " ball cam,", working between the
prongs of a fork which is pinned to the shaft of prongs of a fork which is pinned to the shaft of
the shutle-arm. This statit is also made of
steel, and securely fastened to the shuttle arm, Which in a basket at the end carries the shuttle
along the face of the shutle-race, describing a radial movement which is concecled by all to be
the best movement to irevent skipping stitches, the best movement to prevent skipinig stitches,
the centrifugal force always keeping the shuttle
firm to the face of the 1 acce. The Fere derives its motion from the "feed
cam" placed on the same shaft, the motion beinj transmitted through the eecentric rod and feed lever under the nachine to the feed, which
is maile of stecl,
baving a bearing its whole lengti, therely preventiny any twisting move-
ment. To the end of the feel lever it attached
 durable. questioned; the movements bicinise call cannot be be thende
are nut likely to get ment of retair. The whole
 It will be ohstrivect that there is no gear of
any kind, and that all the motions are derived from the samie shatt, all the the tunal a cumplicicated
shuttle and feci inovements. being avoided.
 any uoise or inosenes. and can be aljusted to
five any requiren "dip, to cithor toe or heel of The trea
motion Wheel Bearing. The wheel runs upon
The a taperect stud or bearing fastened to the side
of the stand by a nut with the bearing end
turnel to a centre; the whecl is bored taperne

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The GarDeyn PatexT is fitted with all the prising the followingye which are furnished
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