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Vol. 1. TORONTO, DECEMBER, 1842. No. 12.

## prospectus

 ion SECOND VOLUME orTIIE BRITISH AMERICAN CULTIVATOR.

Wa. Evans, Empor. W. G. EdMuxdson,<br>Publisuer and Proramtor.

This is the twelfth monthly number that has been published of ths Periodical since its com. mencement in January last, and at is fur the Sub. acribers to judge how far we have fulfilled our engegements to them. It has been certainly our desire to make True Cilutrator usefila and interostung, but it will be fur others to show, by their future support and encouragement, if we hare been successfal in our endeatours. We offer the columns of Tal Coliminator to the communications of any who may desire to inarruct or enlighea their brutherfarmers, on the science or practice of agriculture, or itwsivter ars, or any subject conneted with therr improvement or prosperity.
In the future numbers of this work, more at. tention will be paid to the umportant subjects of Hexticultuae and Menhaisy. Each number will contam a Gardeners and Memasics depart. ment; and ma the spring and summer munths a Gardeners' Calridar will be prepared musthly, adapted to th: Canadian chmate, scasons, and preductions.

In presenting the Second Voreme of The Cul. tivator to farmers and other classes to whom it may be useful in British America, we again pro. mise that we shall do all mour power to submin the best aiturmation we can collect on the sci. enee ard practuce of huzbandry rand advocate in she bost manner wo are capable, the interests of astricalure. Thir publication is a propermedrum for communicating the wanks and wishes of Cana. dian farmers, and we respectully eolicit for it their unanimous suppors.

From the general testimony in favour of the mamer in which the parer has been condurted from the puble presk, and the moct experinneed fanners throurhout the Brovince, there as every resson to believe that it will prove univerally seceptable, and remumerace its readers tentold for their subscription.

## conditions.

Eaetif number will contain simmex racrs, and the worts will be beontiully embelisiond wath oots, illuasating the diferent subjects on which it treats-making a volume of 192 large pagos peanty, for the low pues of One Dollar, freo of postage, fayalic inveriably inadearce.

 mathed at one tume, fro of priage. Thrten coples for ten dollian if rontod at one tame an above. Seventy caprevtor ifig dolliraif wat in
 tume as above; and one le netiod and fity coptes. for one humdred dohare if rumad as above. The extra coptex mall cise will be adhered tothe Agent ordsing the work, and the whers so the Subcribiers.
N. B. All Ordess and Communicanions to be aldressed to the Publuher W. (i, Elsusidsos, Toronto, Post Pud.

## SUPPORT WHICH SHOLHLBE GIVEN TO agricultural papers.

Thirne are as nearly as may be calculated, ner. to exceed 80,000 ceptes ot agracultural papers circulated in the Uniced States In our pupula. won of $17.0 y 0,060$ we wught to have at least 200,000 of subscriters to some purely agnealeu. ral periodecal. Let cach one ot our edtonal - brethren of other branches of the press, procure for us as many subecriters as possible, from one to twenty, or a hund ed will be morcs shefectory, deduct the commeston allowed, and remut as the money through the post office. By this smple process he will ao the wate some service, and put moncy in our purse, both reader's and cha. tor's, but the Lion's share whil go the famati'r. Susaye Tae Aumerican Agracularist publistied in New.York.
In Canada a much css nomber of agurultural papers are tahen than in the Unted staks, in proportion to the population and numbers en. gaged in the buintess. We take thisopmorunity of tendenug our sncere thanin tor the parriotic interest wheh many of the commercial and pohti. cal nowbpagers line ataced an vur suctess, and as we have authorized publikhers of papery to act as Agents. we trust many subecribrre will be ordered through their aseney. Wo hnow ot one publisher of a Cmadian newapuper, who procured scventy-five subscratiors for the Gence see Farmerduring lise last yoar, and anohier fity, and another thrisy a and we thatter oursolers th t our yorld will merit a still gercater support. It the same caertion be used for a home produc. tion $2, *$ was fora torcign. (whese busmees a wos to advocate measures whech hes already produced that which is diametrically epposed to our welfare, we mean a high - imeracan !(wrif), that the zame success may be anticipated for us, and aleo crowned with a different result.
 a gendeman stated he had rated, ilus yeur, 3 it ons of cartots on :he acre oll had. Tras land hat been duy with a spade and well prepared. Thi. Froduce pould be equal to dowife the neight of itrips for foding cente.
P.JGCNP IORTABLE S.IWING MACHINE.

IV our firt number we made mention of this mgrums amd aac ful machme, but were not in
 cnulect my reprt. We notice in a November nomber of The Americion Farmer, published at Bithmere, that a conmitice of tour gentlemen ware appomed at a thir recently held at Gowan. kton to -upernatad its operathon, who were to ${ }^{\circ}$ repurt its tarl for the bemetit of the Gociety.
The following san extruct from the report:"The sow mill was set in motion by a horao" 'powar of Mr. Puges' on a construction, and with' four horses at a mrderate walk, sawed 342 feet of plank un 65 munters. The hurses dod not ap. pear to lubuur as much as at an undmary thrash. ong tanchme. The great siaplicity and strength' of the ean mill are a the esumation of the under-signed, cren a gicaler rewmmendation than the speed with which it peiformed's work."

Mr. Page afkervards called the attention of" die comanteer to has Potalle Grist Mall, moved by the same puncr, and from the facility with' which it perfurned its vork, and the quantity and yualty of mal ground, they think it will be a unot valuctle acquistion to the farmer. We* concenve that portable saw mill would be of the utmont importance to the contractors of plank ruads, and in sections of the country where water grivilege is sarce, and under that convicahon hase witten to Mr. Pige for further infor. manu on she subyect, and have uffered our fervices as ligent to introduce them in this Prot vince. A sorun as this inturmation comes to hand we will take pleasure in laying it beforo our raades.

## THE CREDIT SYSTEM.

We remarked onf furmer occasion that we have devated in many astances frum cash payments bemg made an adirance, in order thatour journatmught be introduced in every section of the Pro.vinee; thera are however difficulties connected wh the plan which make the conbrtons laidi down in cur renss quite indispensable. We have at this present moment a large liet of un paid subscabert, and hope all such will lose no. tume in makite their ranitiances through ouse Agents.

## TERMS TO AGENTS.*

Tine change of our Terms to Ahents to trast wall prove satkfotory. We have made the change in ordor that they may use personal as well as parrionc czertions in extending the cir. culation of our journsl.

……
"Agriculure fo the gicat ant which every zovernment ought to protect, every propilelut ot havis to pracher, and cvery luquiferimto hature improve"-Dr. Iohnson

## Toronto, Decenimer, 18.42.

As we anticipated, the new Tariff of Sir Robert Peel, has already brought much forega, live cattle into the Englth makets from slmost every state in Europe, and caused a fall in the prico of catte in the Brtish INcs of about twenyfive per cent. This fall will have a serious influence on the intercsts of British agriculture, and it is not inpossible but the depreciation in the value of cattle may be greaterstill, when the nations of Europe find that thry have a cortain market for cattle, that will give them higher prices than they were able to obtain herctofore. It will encourage them to raise and feed catle white a remuncrating prico can be had for then. The nay Thriff admits forcign catte on the paymens of a duty, that will not, on an average, amoma to much over ten per cent. on their vaiue, and this low duy will not affurd sufficent encourgege ment to british American farmers, to rase beci aind porlif for the English market. Our clinure is more severe than that of most of the coumrics of Europe, and our situation much monc renute from the English markets. The tarif allows us some diduatage over foreiguers, but not to a suf. fitient extent. At no distnnt period England will discover, that to give deetded enesuragememt to her own colonies, will be her wisest policy:Foroign nations will alwass be governed in their regulations of trade by seffinterest, and as they generally attribuce the prosperty and riches of Eigland to her manufacturng indistry, they will be anxious tw encourage the:r own manufatures and thus increase the home customers for their raw produce. England possoses capmal, mach. norte and ekill to manufacture for sll the world, if she could only induce then to be her customets, bui that would be impossible. Jealou.y and pectilar' circumstantes will alwoss prevent his, and herefore, there must of necestry, be al m: to the extent of manufactures in Brit. i . The colonies of Britain win, if tos:eved ard encourag. ed judiciously, be her best and surest custuners; and an she has colonies in every region of the oarth, they can also supply her, in a few years. wiili allthe may require of foreign produce. If a fief trade system could be established all over the wofld between all maions, we sonold not ob. jectiont; but as thatprotainy never will bo the casg, We object to fee trade in agricultural pro. duce, unfess it equally applics to ail other pro. ductioñ.
Tho present prospects in Britain, may not hold out ge puych encouragememt to us to raise and feed catide as we would wish, bur maters may turnotut betcer than we anticipate, and it will therefore be prudent, by ali means, to augment our stock of caute, in order that wo nay avail ourselves of any. fivourable opportunisy that may occur, to sell eated meas in the Erglish market. Catiearcoss likely: to pay welliss any other produce, we c, caur rajes for calc, and a farm stocked with caule does not requirs, so large an expendisurc Sor finbour, as one under arable culture.

catle, sheep, such a-stock o $\left\{\begin{array}{l}\text { or our' chma } \\ \text { east, of nny si } \\ \text { ie largest retu }\end{array}\right.$ e food consul wfitable to kt It shonld 5 tinimals andin improving beceds of ammals by - maturity is a great perfection-and short. animals generally pussess thes quatity, and are easy fattened. Moderate sized catle, we have alvays hought the most suitable and profitable in Canad. Whatever may be hn size, a good form is, however, actually necessary, to in. sure a proftable stock. We mustalso improve o rpastures and keep for stock. If we had the very best breeds of catte tiat are to be found, they would soon degenerate and become worth. lese, unless well kept both insummer and winter. Wilh good pastures and winter keep, inferior breeds of catle niay be improved, but without these most essential requisites, it is in vain to introduce improved brecds whth any expectatom of profit, or of heeping the breeds from rapidy degenerating. Let us improve the cultivation of our farms, and our meadows, and pastures, and the improvement of our catte and sheep wall be certain to follow. It should be the pranespal object wih all our Agreularal Socictues, to enconrage the mprovement of the soll first-to in. troduce the best models of useful agracultur ham. plements-and to circulate practical mastracisun amangst the agricultural chasece. If Agricultural Societies were to do all this, hey would eftect more profitable improvement in one year, than ther can in twenty by only giving premums uron stock. Large sized imp:oved steck would be starved on nine-tenths of the farms of Camada East, in their present stato of cultivation and moduction. Animproved culuration of the son -more perfect dromage-and the careful extir. pation of hurtial weeds-are the most desirable and necessary improvement for us to imroduce Those who gencrally obtam premums on stock, are farmers who require no encouragenent to anduce them to pracace the bestsystem of agriculture. Indeed it is only such famers who can heve any pretentions to be successful compethtors for catle at catle shows, and all others fee! hemselves virtually exc uded. We bey to sub. mit some of the Rules and Geneal Condituors that were establitied by the County of ISmical Agricultural Suciety. They may ofier some useful suggestions to oliser socientes. We would strongiy recommend premums forwell minged farms, and we wonld also recommend the ap. poiniment of parish committecs for superintending the progress of impruvenient, and as the means of communcation between cquaty or disrict societues, and every parish and section of the Province. If we are to dernve any general benefit from Agricultural Socteties, and the espenditure by then of puble funds, we should atopt the most likely means is produce benefit. It may be said that the plan we suggest would give too much trouble to county socteties. Wive are firmly persuaded however, that the general Good that would be produced by ourplan (and n was nur own oiginally), would amply compensate for tho rouble, We should not toke upon us to act in the capacity of managing commuses of Agricultural Socictics, if not determined to do all in our power to promote the objects for which sucirsocictics, are instituicd, and obsain public money to cappen. lif surk socictes are not usc. Tul dey ure nothecessary: It in byencouraciigh
improvement, where it is most required, thes can produce the greatest amount of benefit :o the commmity. To do this, tie humbly con. ceve, flould be the governing primeiple of all $\lambda$ dricultural Societies, und where it is nothio, very little guod will be produced. We have the very best precedents for our example; the Royal English Agricultural Society, and the many hundied other somettes in the British lsles. All these socteties give their principal attention to the improvement of the soil, implenents, the de. struction of vermin, and the general interests of agricultare.
[The Rules and General Conditions of the County of Montrcal Agricultural Society, refer. red to in the loregoing articie, is unavoidably crowded ont until our nextl.

We have arrived at the last momh of the year, and it may bo profitable for us to reflect upon the varous oceurrences that have taken place during that period. Doubtess, to many, the year that is now nently expired, has produced both joys and sorrows in a greater or less degrec. Fior the occurrenecs of a pleasing naturo we should be greatul, and ut is equally our duty to submit with patience and resignation to aflictions, which, we may be assured, wero brought upon us for our good. If we have proper ideas of tho benficence al our Creator, we must be satisfica that lle never inflets suffering upon His creafurea unnecessarily. All the dispensations of His Prondence, must be for some wise and good purpose. The thonghts of our Creator arc not man's thoughts. The Ruler of the universe is so infinitelv superior to any idea that man can form of IIm, that we never can righty compro. hend His dispensathons towards us, while in this state of existence. It is only when we "shuffeted off this mortal coil," and become pure disembodied spirits, that we slall be able to compro. hend the Deity, and His wise and good govern: ment of the universe. While we are in the flesh, therefore, we should submit with perfect resignation and fall confidence, that all the dispensations, of God towards us itre wise, just, and good.We should make a distinction between the af nictions brought tipon us by our own direct acte, and those that appear Providential. The first can be traced directiy to our own conduct, and are the reguls of our own acts, and it would bo ujest to consider them as the dispensations of Providence, $A$ mietions that resuli directly from our own conduct, we fear, are the most numerous and severe that humanty are subject to in this hic. Indeed they are the pumsbmehts that natarally fullow our own transgressions. It is well for us that it is thus, because it may produce our repentance and reformation, before death-re:moves us from this state of probation. The more we reflect upon the laws and government of God, we shall more clearly perccive that ail IHs laws, for the government of man, wexe, çal. culated to produce his happiness even in this life. It was only with his view that laws were mado. fur us, and that a sense of what was right ard. wrong was stamped upon our own minds to bo a cunstant and fathfal monitor to us. Any act of ours in thes life cannot benefit our Creatory but we ow̃ cimplicit obedience to His "hatye which Hethas given us for our own happances. and that of the human family; and to reward our obedrence, Ills bounty hat riomised us ciccnal hâpphitess in IIeaven.

AGMICULTURAL REPORTIOR CANADA BAS'T.
6, 30
Stirce our last Report, the weather hate enntime-1 opén and favourable for agricultural operations. $\mathrm{U}_{p_{1}}$ "to" this time we had scarcely any frost, and none to stop ploughang for an hour. Iudeed we had some days in the latter end of Octoler and beginning of November, that were unnsually filir for the season of the year. Up to the 18 hof this mgnth, the ground was free from snow in the 1) ingues of Montral, and generally throughom Camadn E'ist. Tire catle had abundant pasture intlie fieldss, and in consequener of the furness of the wepher they did not raguire to 1 h hot sed. The open seasen has ollowred phaghing to proesecd without intertuption, though in some sec. tiong of the country, where the soll wess strong elay, farmers complained that it was dnficult to plingh from being toa dry. Fion our own obs. fervations and from report, pl meghang has been retarded in consequence of the depressed state o! ngriculture, and he low price of produce. Far. mers were unable to chploy sutiiciem linbur io do the fall '-ork, and hence were prevented from keeping the plough constanty in operation. It might be advantageous that lese land should bm ploughed than usual, but we fear that if tint plougled now it will be in spring, and the same quântity, of land still kept in arable culture.There cannot exist a duube that it would be pro. fitable forsas olessen the guantity of our tillame, nndicultivate in a biter manner what we did keep int tillige Wih a judicious ssstem of cal. tivaition berfet drainage, ant carefut weeding of crops, a larger produce might be raised from halfethe quantity of land we have now in tillage, than we oltain at present from the whole, and wentught allow the remaiaing hall to repose in pastire, and recover its fertility. It is mot extra. ordintry than farmers will persevere in tilling a largo quanity of land, from which they scarcely obtaín siffficient returns to pay for the labour In brinting new, and in some inctanese, inferior land juto cultivation, profitess returns are ofter obtained by good farmers; but his is a necestary consequenco until lands are improved, and can be property cultivated. There' is no excuse, howevyr, tor raising scanty and weedy crops on landiof good quality, that is cleared and long in oxlivation. We wish we could persuade far meri who have strong snils to adopt summerfallowitis, and try what improvement may be produced by it. We do not know any means that wapld be mure in the power of exery farmer, to effect the certain improvithent of his land than by fallowity, and perhajs there is not in Canada Eas), onte acric summerfallowed, of every thonpandactos innaillage. This is passing strange; and must"be a convincing proot that thr science and punctice of agricuiture, is ver: imperfectly undéstodaby our fammrs. We wi h we pab?
 dred dof thougnads of our population, who had adopted, eoma means to encourape the introdur. tion fif'i it beter atid more profindle sysicm of
 and Cognselvatures-hine alike neglected to inroduce: angrogular and general system for the mmelforition of agricdllun in Canada East.-
 dition of improvement and grospority, it could
not have been moro entirely left to itself. The het is the more surpising. when we know that the pronnce of brienture is the chef resource anidepend anc boh of Scignove and Cemalates -Pariots and Conscranives. We may be comdemaed for taking then" liberties, but we are indiferent about what may be thought of us for Wvenating, in the strongest terms, the meterests of agriculture. Any hedivinal who thanks he can show canse, why agivuhural improvemon almuld unt be encouraged or promoted, is at lib. enyto tho so.
We have atrrady reporicci, as accurateiy as was in nur power, the produce of this year's crops, and tho state they were sceured in. We have nothing to add on that subject now. Our futare manity will be-how we can chspoce of nur profluen, whe thet to atwantage or otherwise. We regret to say, we do not at prescri, antaci phte rcmumaratang prices for almost any produce we have to sed. The lowiess of the pricee, is a ronviem pronf of tir erpabilities of the comers to yindd hrgercturns of becf, pori, mutton, wool, cliecse, buther, and ohter aricles, of the modustry of the people was properly drected, protected, and encouraged.

Hov wiotd int be eclling for 155. to $20 \cdots$ the hundred buthiles of $1,600 \mathrm{lbs}$., oats for 3 s . the minui, and ot;er gram in proportion, if the conn. try was not capable of producing these articles
 bu'frit, and wot fana be manufactured from hay, grain, and roops ${ }^{2}$. We emport what we mght pruduce, and hive our own producers to languish in poverty. If this be tres parrictism on sond pilier, we confess we do no: understand cotlier one" or the other. It is hardly possible to form an accurate opmion, at present, as tothe expedi. ency of stait feeding catle this winter, with any prospect of prefit or ceen remuneration. lroduce is low, and lifely to cominue so, but it is qqually low in the neighbouring States: and in spring, they may send here their stall-fed catie and sheep, and reduce our market puces extremely low, even lower than in their own come. ry, hectuse if cattle are once bonglt here they nurt be sold, and digy may be brought here to a much greater extent than would bo necessary to meet the demald. Hence it is, that there must always ho extreme fluctuation on the rate of prices, in all materes that are open to foreign supply. Tritis ye hook upon as one of the greatest evils of our present system of free trade. What would nur merchants think, when they imported goods from Bratain, if they were met in the Mrntreal market will foreign gools of the same description, and to unlimitediextent, imported free of duw? If they wort? not complain loudy, and lave catse to do so, we do not understamd ther chanacter. lif will never pay to fatena-catile m wher, for cxparting their beef, in a sulted epac, to Eaghand. Stallifed cateme must be con. sumed 1 re as fresh heef. 1 in only prassfed catlo that will pay, exported in einted beff. Wio hope every eacrion will be maxic io estairy ${ }^{\text {a }}$ a trade to Frglam, in sated beef and nort.

Cote St. Paut, 21st Novemicr, 18.12.

Enucatos:- The arfacio on Eduçtion, referred to in the, Index, page 181, owing to is length, is omituo
in Act to regulate the Inspection of Flour and Mea!, has been assemed and become the law of the land; the requrementsof which are very inportant to be understgad. During the last fen dys, son' of pur frende hate unkowingly volated this law rand suffered its penaliy in the public'market, which apyeared to us very vexatious. When new Acts of such importance colne. into operation, some plan should be adopted to apprise the pablic of their requiremehts. The follow iug Sections will be suthicient to inform the interested parties on the subjecit:
Sre. 10. "And" bo it ciacted, That int the exid lepponturs and dossitant lurpectors so. to te nemiated and appointed, are saveral'y hereby outiorized and required to examine rad i:spect cach and every barrel and half berrel of four and meal, on application betag made for that purpose by the proprictor or possessor thereof, atad tb"als certain the resnectue qualties and condtinns therent, by boring the head of each barrel or half barrel amd probing the contonts to the whole depth of the cask, by an instrument not exceeding five-egithis of an inch in diameter within tine gauge or bore of such instrument for that purpose, and afer insfecting such flour or meal, the said IMapertors or $\lambda$ issistant raspectors respect= inely, sinhll plug or cause to be plugged tho hole bored in each barre! or hall barrel for inspertion: Proridal azurays, that such in: epretion may be made ctther at the store, shap, or wnrelinuse of such Inspector, which he is hereby required to keep in a convenient sitation for that purpose, or at some store withn the limats of the pince for whicli the Inspectors shall be appointed respectively, at the eption of the proprictor or pos: sessor of such fivur or meal.
Sce $22 . " A n l$ be it enacted, That it-shalt nom hereatier se hanful within this Province fo: me's if mr in 'harrcts fur sale of any other than the FHllowing wreght, namcly : half barcels contain-, ins niney el hit pounds net, or barrels containing" onc humdrce and maty-six pounds net, avoirdtapuis weight, under the penaty of two stullings, fir cach and every barrel or halr barrel offered for sale or inspection or exported, and with ro: gard to whath the requarements of this seetion: hav not heen compled with.
Sec. 23. "Andbe it enactoch, That fromand: after the pasing of this Act, each and every mas. nuficmer and packer of flowr and meal in this Proviace, shall !ruvide humself widhiron or metal immit or othernatruments ormaterials by which he shall lrind, paint or mirk, or cause to be branded, paintad, or marlied the initials of his clurisian name, and his simane at fultength; and the place of packing, the qualty and weight of the flur or meal therain contained, and-tho tare of the cask on one end of esech, and every barrel or balf barrel of four,or ment packed for: sals in a phan and distuggashable manmer, bofore, ielivery thereof, uader the i.cnith of two bibit. lings for carh and every barrel or hald barrel of: four or meal pached in this Province, apdiso doliveled or oflercd for sale, maspection, or exporta-: tion with sueh brand or marks.
SEc. 24. "And bc it enactrd, That all fioir," to be hereafter paclicd in this Province for saldi; shi" be packed in gond and stroug barrels or haif harrcls of senenned oak or ash tmber, and made as waty straight as may be, and tho staves of such harels shall the of the tength of tweny sesentinches from crne 10 croe, inad off half barcel n of the leng hot twonty-twoinches. ir.in enr po crec, with eads of the sme; uno dinmorer of the theids of the imreds shall be from: s:xtem ard a hall incles to eeveuteon incher, nut of hat herrets fiom thisecn and a haff to
 rats shat: bn wroll wombed and boud with a lenst ien weden lionse, of whith threcelath be: o: enef end, with a laing haon within the chimes, the whle well spruted hy noils, wader the nema!. ty of tra shitimus for each man every ciñkd dfer:ed for sale, or sexorted, which alallinot lio ong: of the foyegoing description of berrels or hall larthe."

## 'NOR'MHALLERTON ACHRCLLITURAL SOCIEIY.

We have made the following selectima thom the speeches delivered at the dinmer of the Northallerton Agricultural Succiety, Eugdand, whith tonk place on the 31st of Auges. last at Northallerton. The chairman W. B. Wrightson, Esqr., MI. P., satd :-
"The pursuit in which they were engag--d was a very ancient one, and it was not only ancient but it was a most pure putsuit -it was a most useful, most responsible, :and most important pursut; it was a pursuit without which all other chasses and all other businesses could neither subsist une be carried on. (Applanse). Am, therefore. in point of fact, it was the grand hey-stone iof the whole arch of society."

Wm. Torr, Esqr,, said: -" He should like to see science brought to bear stronger on ägriculture. In many iustances lee was aware that where science had been produced practice hau been given up ; bat this was no \}oundation for opposition to the intruduction of "science, as the result aruse from masapplication, science in those cases heing funded on practice, instead of practice bemur founded onscience. ( $A p_{1}{ }^{2}$ aus ${ }^{\prime}$ ). Science, at the same time, was tuo oftelu tahen from books, in which authors were found to differ, and as in the case he had just stated, the - 0 fect on application of science was often taken without looking at the cause. If, instead of confining themselves to the effect, they would look more to the cause why such and such things were, be felt sare more beneficial results would accrue to a! socicties like the present."

The Vice-President addressed the meetfing at considerable length. The following Is a-part of his speech :-
"In therr hands was deposited a very high, a very seruons and sacred duty-they held the responsibility of producing food for the happmess and comfort of their fellow-cereatures-they had it in their power to in--rease or diminish the necessarims of life, and by their carelessness, stupidity, or recklessinese, how scrious a result might ensue (Applause). He said they had serious du:ties to perform, and he trusted that when :any of them took up the sctence of agriculitate, that they would not do it for mere em-ployment-not to satisfy a mere whim or pleasure; but he hoped '' ey would lowk at it 28 having the means in their power of doing as he had described; and if the.' did not pay that attention to tt which they oi ght, the felt that they would be gulty of a ${ }_{4}$,reat dereliction of duty to their fellow-creatures (Applause). Mr. Mauleverer proceeded to dwell upon the expense of getting in the crops, and to show the great advantage to be derived from mowing the crops instead of reaping then by the sickle, in support of which he quoted Lincoluskire, where the harvest is now almost entireiy got in with the scythe instead ot the sickle. The ad--vantages were there found to be less waste, less evpense (the wages being at the rate of from 6s. to 7 s . an acre), a great increase of straw, which, of course, produces a great increase of manure ; and thus from year to year the land is considerably imprnved(Applausc). Mr. Mauleverer then directed the attention of the mecting to Captain Barelay's' tour in America, which in speaking on the subject of agriculture, presents two saxtremes-the one being the reckless speculator, the other thre childish adventurer.With the latter how many were there among tEetriagricultural friends who agroed, and
who on the qualties of any new invention temg expatiated on, are ready to come forward, and do come forward, and oppose them by such arguments as these-' Oh, no, these things wil never do, they'll all go out of fashou to-morrow, and there's nothing like the good old way.' (Laughter). Xes, the grood wld way, tor the adoption of which in most cases no argument could be adduced, except that the father, and grandfather, and grent-grandfatiser, had used those meansthose good old ways, before them. (Applause). Look at the manutacturers, had they been checked by such chidish deas as these? No; they were ready to alopt every thing In the way of inprovewent. and they might now see the pertection to which they had brought the manufacture of their goods.(.1pplausc). Why then should they be actwited by such nerinus, such ridiculous ideas-depend upon it if they did suffer themselves to be so guided, no beneficial result ever could ensuc. (IIear, hear). Again, let thrm look at Seothand for example in this particular-let them look at the state of the land in that country some few years back, and now from thes exertions and from the mprovenents they had made, let them consifer the resilt, namely, that hat and whict a few yonrs back was in a most dephonble conditiom, was now worth triple the money. (Applaust) In some few instances he was aware that that was the case here, but not to that extent which it should beMr Manleverer next alluded io a school for the education of the labouring classes in agriculture, which had been proposed about three years ago, but which he regretted had not met with that support to which it was entited, and proceeded to show the great advantages of education. He had a little fault to find Their own society he thought was too exclusive-they confined their atteation :oo much to the breeding and exhibjtion of stock. Now there was ploughingwas it not important that that should be attended to? The celerity of ploughing, was not that a matter for consideration ! Why not affiord premiums to a class of that description? Why only give premiums to sheep, and cattle, and pigs, and so om, which it was well known were got up and crammed and fed by all sorts of mancuures. (Lond laughiter). Ile meant to say that they carried his department to too great an excess, to the exclusion of other things of great importance. He would mention sheep-shearing also. Was not that of any importance? Why the fact was, they thought of nothing but pampering and stuffing a lot of anumals with sagn and new mill- - (loud laughter) and if the judges present would speak out, they would let the company inte such secrets as they were little avare of. (Continued laugher). He would mention one instauce of this which occurred at Bristoh, where a cow was nourished by milk from three or four other cows, and when obliged to be milked in the middle of the day, as soon as the operation was oven she turned irer head round to the bucket, and commenced drinking the vety milk she had just given. (Zoud laugliter). Inctead of this, why did not they give their starved land plenty of seed?They did not starve their cattle, but they starved the land-and why then did they grumble about their shabby crops!"
It will be seen from these selections what are the objects of the respectable Eaglish Agricultural Societecs.

Egyptian Wheat-LLast year the Marquess of Bristol gave to Mr. Mitchell, a gardener, of Kemp Town, several ears of
mummy, supprosed to be iwo thousand years old. At the proper season the grain was sown, and has been cultivated by Mr. Mitcheit with great care. It has produced very fine ears of corn, some of them ning meches it lengh, but the grain is much lighter than common wheat. Mr. Mitchell has saved the crop to make further experis ments next year.-E'ughish paper.

## WINTER BLTITIER.

Of all the products of the dairy, thete it none more extenswely used than butter; and there is none the preparition of which requires more care, or better repays a littlo extra attention. The difference between good and bad butter is as wide as between The zenith and the nadir ; and there is nos thing more advantageots to the darywoman, or more to be coveted by her than a high reputation for the quality of thes article.Good butter always indicates good order, great neathese, personal supervision, domestic industry, and shill in housewifery ; and when a man carries an inferior artuclo to marhet, the opimion entertaned of his wife is directly the reserse of thas.

The first thang to be attended to in making sueet butter, and butter that will keep, is the perfect purty of every thang used in the manuacture. Not omy the vessela used, the pals, pans, churns, \&c., but tho room ta which the milk is set, and the air which circulates in it, while the cream is rising, should be clean and free from every offensive odour whatever.

The temperature also of the milk while rising, and of the cream white churming, is of much monent. Cream on the malk will be mured or melted by too high a tempera. ture, as well as while the churning process is gomg on: and if the temperature is too low, the cream rises so slowly that it becomes bitter and the butter of course is unpalatable. A temperature of rom 50 to 00 degrees has been thought best for the milk room, and hom 60 to 65 degrees will make good butter. 'The churnmg after it commences, should proceed without mitermise sion unth the butier is formed, and separated from the milk as tar as it can be in this stage of the process.
The salting of the butter is a matter essential to ts good quality. Too frequently, salt of a coarse, interior description is used; and so much is put in that it remans undis: solved, griting like sand in the teeth, and provoking uncomfortable thirst. The satt for butter should be of the purest kind made as fine as it can be by grinding, and if a hitle poudered saltpetre is mixed with it, it will tre none the worse. Some havo recommended five pounds of good salt, eight ounces of saltpetre, and one pound of first rate loaf sugar, thoroughly incorporated and used for saltung, at the rate of one ounce and a half to the pound of butter. If the salt is of the right kind, and the butter is correct in other respects, it may be ques toned whether the addition of any forcign ingredient is not to be deprecated.

The great pomt making good butter, and that wheh will keep, is the freeing of it from all buttermilk; and if every thing else 18 well done, if this point is overlooked, gond butter is impossible for any length of tume. The maxture of milk in any degreo with the butter is sure to produce frowiness or an unpleasant taste to the butter; and the entire freedom from this, constitutes the grand sceret of making good butter. There are many who think washing butter with water incompatuble with retainung the rich flavour, but if the water is cold and pure, it
is acarcely possible anything should be
washed away, the buttermilk which destroys tho flavour of all butter excepted. Besides, the best butter in the world and that which in all markets commands the best price, viz: Dytch butter, is invariably made in this way; and where the example has been followed by pthers, it has rarely falled of success. If any, however, doubt the propriety of washing butter, they may use any method they. choose, provided the milk is separated perfectly. Perfectly freed from the substance that causes it to assume :hat putrid frowy tas̈te of bad butter, it may be rept with almost as much case as tallow and solidity in packing, clean, sweet vessels, aind a low temperature, will ensure its keeping for any reasonable time. Let no one expect good butter, however, so long as coarse impure salt is used, or a particle of the buttermilk is allowed to remain in it.Albany Cullivator.

## KNOWLEDGE IS POWER.

In a late admirable report by Horace Mann, Esqr., Secretary of the Board of Education of Massachusetts, the following striking exemplification is introduced of the maxin that "knowledge is power":
"M. Redelet, in his work, 'Sur l'Art de Batir,' gives the following account of an experiment made to test the different zmounts of force which, under difierent circuinstances, were necessary to move a block of squared granite, weighing $1,080 \mathrm{lbs}$.

In order to move this block along the floor of a roughly chisselled quarry, it required a force equal to 758 lbs .

To draw the same stone over a floor of planks, it required a force equal to 6.52 lis.

Placed on a platform of wood, and drawn over the same floor, 11 -required 605 lbs .

By soapng the two surfaces of wood, the cequisite force was reduced to 182 lbs .
eläced on rellers of three inches diameter ${ }_{2}$ and ${ }^{2}$ force equal to 34 lbs. was sufficient.

Substituting a wooden for a stone floor, end the requisite force was 28 lbs .

Withothe.same rollers on a wooden phatform, it requured a.force equal to $2 p$ lus. only."
"At-this point," says Mr. Mann, "the experiments of M. Redelet stopped. But, by improvements since effected, in the invention and use of locomotives on railroads, a traction or draught of eirht pounds is sufficient to mive a ton of $3,210 \mathrm{lbs}$; so that a force of less than four pounds would now be sufficient to move the granite block of 1.08016 ; ; that is, one hundred and eight timedess than was required in the first instance. When, therefore, mere animal or nuscular force was used to move the body, it required about two-thirds of its onn weight, to accomplish the object; but by adding the conitrivances of mind to the strength of muscle, the force necessary to move it is reduced more than one hundred and eiglity-eight time . Here, then, is a parthership, in which mind contributes one hundred and cight-zight shares to the stock to one share coutributed by muscle; or, while brute streng tli represents cne man, ingenuity or inuelligence represents one hundred apd eighty-eight men!"
$\because 9$
From observations hept for the last half century,-it appears that 1793 is the only year which can be brought mito comparison withithe present as to long continuance of heatand drought. For some days, however, in 180 Pam ${ }^{-1811}$, ther thermometer rose to
a higher degree, and in 1802 it was sbove any former instance known in Paris (being once up to 395 -10ths of the centigrade scale, 105 Farenheit). Those who pretend to be weatherwise predict that the ensumg wimter, or at all events, the winter of 1843-18.4, will be extremely rigurous.-Sclected.

## (From an Enghsh Paper).

## HORNCASTLLE FAR-UN BREEDING Horses.

AJr. Edrion, - The great horse fair at Horncastle has just termmated, and, as a neighbourng gentleman of that town, I rejoice to say its character for recenving some of the finest horses in the world has not dmimshed. We have been visited by London, fores, $n$, and other dealers from various parts of the United Kingdun, in great numbers, and notwithstanding the unsettled s ate of the manufacturing districts, much |busmess has been iransacted. Fist rate hunters and carriage horses ietched high prices, and were difficult to prucure. Guod cart horses were sold readily at remumerating prices, but the "macliner" half-bred and inferior class of hurses mure difliualt of sale, and at low prices. The great coach and pusting establishments hariug been su generally reduced since ra:Iroads were estabished, there is no demand fur the hali-bred or inferior class of horses.
It may therefure be worth while to make a few remarks on the breedng of hurses, for there is no part of Enghand where there are mure spirited, and at the same time more careless, breeders of hurses than in the limits of the circulation of your paper The first axiom I would lay dow: is, that " like will produce like"; that the progeny will inherit the qualites or the emised qualities of the parents. It is also certain that the fual will inherit the diseases of the parents, or at least the predisposition to them. There are pruofs upon prunfs that blindness, roaring, broken wind, spavins, curbe, \&c.太.., have been bequeathed both by the sire and the dam to the immediate or more distant offspring. Peculiarty of forin and constitution will also be wheritud. The unskifful or careless hreeder will often so badly par the animals, that the good points of each will be in a mamer lost, the defects of both will be increased, and the produce will be far mierior to buth sire and dam.Of late years these principles have been much lost sight of an the breeding of horses, and the folluwing is the explanation. There are nearly as goved stallons as there used to be: poverty or indifference has indured many of the farmers t) use that mare on his farm which has cost him little money, but still he determanes to have a fual from her, and she is put tu the horse; but by what rule does he solect the hurse? Why, a horse is selec'ed because "hey say" inc is a geod one, or because they only charge so and so for his coternge, and a fual is still a fual; or neighbur So-and-Sulas a hurse, and you know we must not go by him, fur it nould not be neightourls. Uuder these considerations. nut hasing the least reference to the points of the hurse or the mare, a foal is produced, in all probabilty a worthless anmal. I wish to impress upon the munds of all farmers that the excellence of the mare is a point of quite as much importance as that of the horse, and that out of a bad mare, let the horse be as perfect as he may, a good foal will rarely be produced. Farmers should also bear in mind that a foal whech, when arrived at maturay will sell for $15 h$, requires as much more food as one that will sell for 1007., and that the latter (if worked) will perform as much work for the breeder as the one that sells
only for 152 ., but should the 100t. horse hap. pen to recenve a blemish durng hiswork, hoot will at any rate bring as much asithe unblemished 15l. horse. I have been induced to make these remarlis in the hope they may eatch the eye of those fotmers Tho breed horses, and are careless abolit tho stamp of mare they put to the liore?, and who by being thus indifferent, are the frouso of producing the inferior class of horsps we have recontly witnessed at Lorucastlo, feir, and which 1 trust we shall see bydegrees diminish in rumber.

Your obedient eervant," "r.T
August 20th, 1812. $\operatorname{ID} A$
ON GREEN MANURTVGG:
The followng trial of manuring. rwith green crops was made by Herr Zahibriuckner in the year 1839-40, and was communicated to the Agricultural Society of Kienna at the meetug in April last year. . Threo preces of ground were selected for, trial No. 1 was treated as a clean. fallow, apd afterwards thackly manured.; No; 2 was sofn tw ice with Vetch seed, and when the phants l:ad grown waie ploughed 1 m ; No. 3 เnas sown with Lapme seed, and treated in tho same manaer. The first pece of ground contaned about 500 square yards, tite tuvo latter about 400 square yards each. !? Tho vetches and lupancs were both strong in therr vegetation, and the first crop of the tormer was ploughed in at the end of Junte, and the second crop with the lupines th, the middle of August. In the middle of Sept'r. all three portions were sown with winter rye, th the proportuon of three pecks ofised to the acre; in all three pieces the -ptante appeared about the same tume, the greenmanured a dat or two souner. Do differenco "as observable in the character of the yothg plants, and each crop passed. through , tho winter of $1830-40$ whout any, injury; in March, 1840, when the snow and 'ice lrad melted anay, hitlle or no difference was-per-so ceivable in the crops. At the time of flowermg, the fallow and lupine plois were moro vigorous than that of the vetch; and at tho time of the ripenug of the now seed, thin ${ }^{5}$ lupme niut had attaned the highest and strongest growth. In thrashing the.icorre the followng was the result of these experiments: No. 1 delivered 32$\}$ pecks to tho Iustrian acre; No. 2, the vetchimariurever yielded $20{ }_{4}^{1}$ pecks per acre; No. 8 ; 4 thioni lupme-manured, yielded 34.2 pecks per acre. 12 In some prevous experments made in:thores ycar low3, the green-manurmg, withethemes lupae yielded a larger produce thansthoise thuckly-manured ballow. Thatathe vetchetu: manured did not produce so iarge a.guantuys qd $^{2}$ of seed as the lupune, may berascintedithen the heat to wheh it was exposed durmg. thon. latter part of the season; but still, the rb-sie sult proves the value of this kind of manur-n: ing. Thus mode of providing unanureaforsis curn crops may be of great importance in, "a these cases which sometmes, occur,...inco. which the tarmer cannot obtan the requisite an: quantity of ammal manure. Althoughtheso.:experiments in.sume measure contradetho. el reent doctrme, that all manures aro derivedn ${ }^{\circ}$ from the inorganie kngdom, yet the practical farmer will not fall to avall hemeeffof this? ready way of ohtamung manure. 'This mode of manurng may be conducted with othéif plants, especally thuse with large or abundis? ant leaves. The banihes of Crucifere'and ${ }^{\text {t }}$ Chenopodiazem offer an abundance oflepeasi? cies fit for this process.; and thereláernitity merous cominon weeds which might alco 3 gh employed fur the same purpose, without andi") expeusc. Xhe. thadu satua, would alsop bone

 scashft-Gesellsctiaft in . Wien.

## 

## THE FARAERS HARVEST' SCNG.

Ho! topeo ye lads-thr morning hreezo His swepl the mist from the stream, And aftr on the hills jhe towering erecs Are sipt with the day's first bram;
*The etars are cone-life might has sied, And the larth has haited lise dav:
Aroute ye, then, whic the morn is redA way to the-lich, away!

To us no muric sounds more sweas
Than the sharpeniare clanh ol the sey the: And rehoing hills with gladures greet The song of the reaper hlythe.
How pleasan' to follow, with rake in hand, The mower's devious woy,
And scatgeraliond with lightsone wand, The grien and perfumed hay.
Liet tie soldicr cxult in the pomp of war, The king in his serfithronged hall; The frec.horn farmer is happier far Than kings, and lurds, and all. - Mis are no ficlds with enrnage red, And drenched with the blond of hesesain;
Put hills and vales o'er winch is spread A harvest of waving gram.

Hh, summer sum, o'er valley and plain, Has shed his geninl ray,
'Till smiling neres of goldea grain Await the harvest day;
And into their bordere we will not fall To carry the war to the knife,
And eager, foo, are the cradle and fail To be wielded in bloodless strife.
Then up and Away, while the dinmond ties Bespanigles the bending arm;
And gaily we labour the while we woo The bracing breath of mem,
And under the shade of the beeches green We'll rest at nom of day.
Wurrah! for the sickle and seythe so been! Away to the ficld-away!

## -. From The Montreal Merald.

PEMARKD QN THE PREPARATION OF PROVYSIONS.
br tur mpstreal doamd of thanf.

The.Board of Frade of alontreal, under the impression that the superior order in which flour was delivered in time port the fast season, has in part reswited trom them remarks respecting its preparation, hove. owing to the great alterations in the moher country on various other articles of food, Fgqinto addrges the public on tho proper method of putting up such articles, for Which ithere will probably be a demand in Greaty Britain, but wheh, to realize the views ofsintending shippers must be so prepared as to be cuitabio of the tostes of the proposed consumers. It it desimble to show not only what should be done, hut what should be avoided, in order to socure a trade, which, with care and economy, promises to \$o of very considerable advaniage.
The articles which clam attention, are :
Prime Mess Beef in Tierces and half rfiexces,
Dituo, ditto in Barrels and half Barrels.
Prime Rork in ditto dito.
Hams and Jige' Cheeks.
Sizusages.
Mutton Hinme.
Butter, and

## Cheese.

Mexd Beef is so very difficult to be proenred, thiat as an article of genernal export, - Do: wionh attention. It requures catie
of so very good a quality, and so much of the animal has to be rejected, that it will hardly pay to putup. If cattle good enough for Mess could be poocured, it soonld be brtter to put up the rounds aud briskets separately, nud to salt and dry the remainder. The Inepection Jaw protides that Meer beef shall consint of the choicest pecces only, which are briskets, the thick of the flank. ribe, rumpe, and sirloins. It is generally considered tbat mitle to be fit for Mess beef must be fin yers old. On the other hand, Prime Jeef is not sultictemly grood, so that it is to Prome Bless the Board would particularly direct the attontion of packers, which is the liess leed of the Irish market.
Dy the Inepection Iaw, Prime Mess Beef shall consist of pieces of meat of the second chas, from good fat cattle, widhut shanks or necke. Thas is sufiiciently fat for the English market, and may be made from the meat of catle of four years old, or cvon from those of theee, it of goad breeds; there is but little rejected, and that little only fit for use while feesl.

As the Law above roferred to is precise as to the construction of the tierces, barrels, Sc., in which provisions are to be packed, the Board think it advisable to insert the clause regulating that matter. It should be remembered that berf is prefrable in tierces and half tierces, pork in barrels and half barrels.

Chause 10, of the .lct 4, and 5 Vic., rap. 28, to regulate the Inspection of Deef and Pork, "And be it enacted, That from and fifter the passing of this $A$, each and every barrel and half barrel, tierce and half tierce, contrimng inef and Perk, inspected in this I'rovince, shall be made of good neasonable white oolf staver, and the heads not less than idree guarters of an inch thick, and each etave on each edge at the bilge shall not be Inse than half an inch thiek when finished for warels, nor less than three quarters of an inch thich when finished for tierces, and the woed ot half barrels, or half werces shall bn in the seme proportion to then size, and slall, in both cases, he free from every defert; each barrel and hali barrel. nerce or half tierce, shall be hooped and covered twothirds of the leagth with good oak, ash, or hickary hoops, leabiug une-thurd in the centre uncovered; and each barrel or half barrel, tierce or half tierce, shall be bored in the centre of the bilge with a bit of not less in diameter than one inch, for the reception of pickle; each barrel shall be not less than iwenty-seven inches, nor more than twentycighe inches and a half long, and the contents of each barrel in whach beet stall be packed or ro-packed, shall noi bo less than twentycight gallons, nor more than twenty-nume gallonc, wae mea-ure, and the contents of each harrel in wiuch lourk shall be packed or te-packed, shall not he less than thrty gallons, nor exceed thry-ote gallons, whe measure ; each nocres sinall notive less than thrty inches, nor more than thaty-one mches long; and the contents of each therce in which Beef shall be packed or re-pacised, shall not be less than furty-four gallons, nor cxced forty-jve gallons, wine zucasure; and the contents ot each tieree in which Porli shall be packed or re-packed, shall not be less than ierty-five gallons, nor excecd forty-six grallons, whe measure; and hali barrels or haif terces in whech pork and beef shall be packed and re-packed, shall severally comisin half the number of gallons above mentoned, and no more, and it shall he the daty of the Inspector or Inspectors appointed under this Act, to examine carefully and ascortain the sufficiency of oach barrel and half barrel, tierce and half tierce, before branding the same, and in brand nono
with regard to which the requiremente of this Act liavenot been complied with."*
As to packing, of course the rounds and" briskets can be put in kits; the prime mears heef, as hetore oleserved, in tierces athd half thereef, and cut up in precisely eight pound pieces, thirty-eight peces making a licred of three humbred and four pounds ; nineteen a half tierec. If any error be made, it muat bo in excess of the proper weight. The meat as soon as put up, shouklic packed in vals whit dry salt, silt strong pirkle made with one nunce of saltpetre to six poimels of salt, peinen on it. The salt should bo frop from sulphite of surfa, muriate of magnesith, or olher impurities tob common in the salt of the United States. By the Inspection Bill it is imperafive to use St. Ubee, Isle of May, Lirbon; or Trurk's Island salt, or other ceareo-trained snlt of equal quality. Ateri heing thus prepared, it is left for twenty fout hous, when it is put up in new pickle for at least seven days, such having no saltpetre in it: or it may be left in the pickle until prepared for exportation, when it is packed wht a layer between cach tier of meat, and betweon the top amd botion of the bariel, of a maxture of six pounde of salt and one pint of molassos. In this way ingtead of cighteen and a half pounds of ealt to each fifty poumds of meat ordinarily used, six pounds will bo enougn. When headed up, thá packages should be filled with tho strongest and perfectly clear pickle. Great caro shonld be taken 10 cut out all bloóly piecés or bruised meat, and to avord dirt and fand on all eccasions. The scales and blockis should be particularly attended to, and should be well scoured prior and subsequent to being used. In slavghtering, it is highly requisite that all the blood be removed, and the meat allowed to cool thoroughly before: it be cut up,

Dried Beef, consisting of the ribs and legs, whthe hones ont of the latter, is very salesble in Britam, if of good quality; this is merely well cured, and then dricd, but not smokeci, and shonld he of the very finest meat only. Yemon, also Mutton, Hitms; and Shoulders, would if similarly prepared, reet the wants of the British consumer.

Tongles salted in the same manner ins Bopf, ore in request; not only those of Cat: tle, but of Pigs and Sheep.

They should be prepared with greatclean: liness, and any thung offensive about the root pared away. Iiege of from fifty to one hundred are the most suitable.

In Pork, the arficle most wanted is Prime, Gurh being the Mess of the Yrish packers Miess and Prime Mess being too fat, änd Cargo too inferior. It shouli, however, bi small,-owing to its being young, and from no other canse, say made from pigs from nine to twelve months old, weighing abnut onie hundred amd fifty pounds each, the coara peces of one hog and a half only being pack ed. It should be fairly hog and a-half pork, not the fat pieces of heary pork" made up with the coarse pieces of the same. but 'made from pigs not hevavier thán the weight noted. Nesher the head nor théf lect should be packed, the cheek should be cut off, and may either be packed er left out: It muiti muariably be cut into four pound pieces, and any hlocdy part about the neck taken away ; Indeed it would be better if; in thic first cut of the neck, not only the bloody parts wero' removed, but the bone cut out also. The slsank of the shoulder cut close to the body of the pig eloould also be left out.
*Tie Insh provision, packagesinave the se: cond chame hoop at cach end of iron; it would be well if that conetrucuon-were adopted in Ge

-Cargo Pork, from young pigs of one hum-' should be ditided, (the home met heng cut dred pounds and upwards, and learing out through), should also be well rubhed with the heads, would answer if it should be falt. When woll dried, and if smokid tor
 tifig this up yould be to take young pugs of be rowered wih rnitom ond wheryathed one hundred and twenty-five pounde, and 4 with lime. The checke should be cut elow feaving out the hams and heads wheh could from the bows of the hran, and wiy he bo dried, to pack the remainder, wheh, having less coarse preces than allowed by law, might be eafely marked "Prume." The Board considered this a most elugble mode of putting up, and one whoh would meet with favour in the mother couniry. 'lhe mode of cuting and packing pork is the same as that desoribed for beef, except that the molasses ero left out, and it is cut mito four pound instead of eught pound pieces.It is preferred in barrels and hall barrels.

The reason why tierees and half tierres are preferable fo, beef, and barrels and half barrels for pork, is, that beef, from the size of the animal, is cut uto larger peses.The Jrish practice 18 to put therty-etght pieces of oight poind each in a lierce of beef of three hundred and four pounds, and fity pieces of four pounds earh in a barrol of pork of two hundred pounds. None but very superior meat should be put upin hali packages Pork, to sum the Enoplish markot, must be of a firm texturn, yonme as-beforo remarked, and well fect, with a due mixture of fat and lean throughnat. pige fed in the woods, may, by being lept poor a time, and then fatted on peas, corn, or other grain, become very suparior meat, but it is to be remarked that pigs fed at distilleries require very long feeding on grain to make good pork. The only use to wheh distillery fed porls can be put, is to reuder it into lard.
Bacon is an article of great consumption in Britain, and consists of entre sudes of pigs (singed, not scalded), excepturg the hams, and having the back bone tahen oat 28 far as the middle of the sude, as little o. the"meat being removed with it as possible, the kinuckle cut olltrom the shoulder, close to the body of the aumal, and the lower part from whence the ham is taken is trme ined square ; or, of sides having both shoulder and ham removed, and the nech cut onf square ; the latter mode is preciciable, as "shörit middles," as they are termed, are very"saléable in Great britan. The mode of curing is to rub it well, daily, for at least thirteen days, with saltyetre and salt, in proportion of one ome of the furmer to ten pounds' of the latter ; it is then either packed in that state, or rubbed in every part with brañ" to absorb the moisture, and dried thoroughly. 'It is preferred however, in the damp state in the English market. Four sides may be packed in a cotton bag, which would'be white washed. The most desudable pigs for bacon and hams, are frun one hundred and twenty-live pounds to one haudred and seyenty-five pounds weught, thought pugs under two hundred and finy pounds may do. The piges must however, be well ied, and small trom being young, and not because they'are of a buid breed, or badly fed. The necks and rumps can be cut free from bone, and either put up in barrels or prepared as

Hans ${ }^{7}$ pigg" cheeks, and shoulders shoukd be dry salted as bacon, excepting that one pint of molasses should be added to the same proportions of salt and salepetre. If the hams be very large, it perhaps, may be necessary to rub then daily for twenty-nine days, minsead of thirteen They should be cut int the Westphalia fashion, so as to be compact, not taking away all the fat from the pork or bacon, and not cat over, but straight up and down. A cut must be made at the bnuckle, to introduce the salt there; and the: hingoins which, in cutting the ham
from the hows of the heat, and thry he
macked in a dry covk or flour binrol. Neither of these articles arewer in chin in the damp state. Ribs of very fal herf, and the leg with the binne ont, beth of liene ard vemient, my be rured the same ne hame, biat da not require rowaring ; they al=o my bo put up in dry latercle.
As befire remolicel, any uistillery fed park mat be aroited: even catle, fed to iro grat an extont at a disti'lery, will prove inferior.
Shusocece are imported into Great Britain a ronsiferable quatities, ithul are geurratis m-le from heef, s'metions foum porl, atal often are a mivture of both. They are put int the loren get of the ex generally, bat smmetimns in pigs' gutc, ayd are saltel amad dred. The Dutch on / Germans made parts saurares, and merely salt thrm, they form pur of the domestic stores of neery famly and are much used at sea. The nerls aind yump pieces, and some of the inside fat, may thus be very advantagenusly worsed mp. esprcially into the large dried sausages, for whech there is a great demand in the mo. ther country. They mast be prepared with cleanliness, and be well seasoned whit pepper.
The inside fat, of course, is rondered into lard, great cars being inken to have it rery clean and not to burn it. The Board perticularly urer attention to cleanliness, as for want of this. the article may be umsaleable. The hamsand shoulders of pige, mot too seft, may be salted and dried, and the lean parts made into sansares: thoy should int he packed with those made from hard pork, but sold separatcly.
The shoulders and hams of sheep, saltel and dried, (not smoked), packed in four harrele would be well worth tral in the English market.
As comnected with the prosent subject the Board of Trate desire to give publictiy io an invention recently brought mio use in Fagland, for curing provisions. It is a machine consisting of a cylinder of cast-mon. connected with air perp, and communicating by a tube with a tul) containing strong piekle. The cylinder has an air tight cover. The mode of curing it is to introduce the meat into the cylnder, placing on the the tight coyer, withdrawing the arr by means of the suction pump, then letting m the packle, and afterwards toretug in ar on the surface. On taking the meat from the cylmder which may be done in a few mmutes. it is perfectly cured, and may be packed in the usual way. Such machucs would be highIy useful in this Colony, emablug meat to be preserved at any season, and any sudden demand to be speed!ly supplied.
Buter and cherse will, under the new Thatf, he articlos of very great umporiance, and well worthy the attention of agriculturists. The duty on foreign butter being 20 s . per cwt., on checse 10 s . per cwt, whilst on Canadian, it is but 5 s. on the former, and Es. 6d. on the iater. The Dutch export of these aricles to England, to the value of nearly one million pounds sterlung per on num, the whole of winch trade may easily be secured to Camada; and if the export of cured provision be only another million, the importance of the trade now openng to Canada may be eavily concerved. But thus is a small amount compared with what it meght eventually be extended to, for in exchange for manufactured goods, the people of

Bri atn will take any amount of bread stuffis and of anmal fond.

1inter, to be suitable to the English mar. ke, must be clean, and free from whey, Which should be pressed out with spatulas, mot with the hand: unless all the whey be extrimed it will mot lieep. It showh bo binderately sated with a musture of 10 J Jos. of sath, mon ounce of saltpetre, and four omere of sugar, we 11 worked m, and put up, nut in hyers as made, but well mised in tha, c...h; untwo qualaies to the same cask, a it arh cash resomblug the rest as mich. as posesbie. The butcer should be but lighto ty sated. The commm error m Camda is., ta s.a.: too henaly. A large quantity no ". duy: $:$ is necrsary, when the whey is not at " 111 prossed out, but wien that is done.a: rers moderate quantity will sufice.
Ticre is nu necessty for using colouring, whinsumer and fall-made bitter, the onlyo: hind suitabie for export. The winter butterthould be kept apart and used in the.Colony. $:$
As io chores, the consumption in Great Britanas very great and very constant; but Can.da hitherto has been an importing instedd of an exporng country. It is amen? creaty to describe its manufacture, further than to state, it should be made from new a milh, atad 11 such parts of the Colony as, 4 berng hally, possess short pasture with pleniy of sweet grasses; and mdeed are the reverse of a goon butaer producing country. , Interur cheese may be made with the morn- ing's mill: shmmed, added to the afternoon's milk, new and fresh-and this on lands most. suited tor butter: but it is to the hilly parts of the Prowne, where, excepting sheep and cattle, little can be produced, the Board para ticularly pr it, as likely to derive important advantages trem the manufacture of this artich. 'The best form for cheese is that of truckles, say eght or ten inches across, and four ata a hati to six inches thick, round or square ; these are hest suited to small farmis. In larger farme, cheeses of greater size can be made, say trelve to fifieen inches, by su deep. The large cheeses lake the Che:shire, are dificult to keep; they should be vell salted, but not too much so ; and couloured wih Annatho, but not too deeply ; such in Eugland beng constiered the segn. of an inforior artucle.


Experiments in rile glivo.
The substance called Guano havin, attracted much attention in England is a manure, as well as excited a cunsuidrable degree of interest amongst thaty mitansent cultivators of this island, I instituted a scrics of experiments at the Kirk Onchan nursery on its fertiluing properties.

Guano, it may be as well to premioc, ofcurs as a deposit, of very considerabie thel. nese, on various small rocky whets thi the coast of Peru, ranging from the 1 B th the 21 st degree of south lattude. Its rigin has been a subject of fanciful specthaton, Lu* it is now cerainly known to be the eacrement of pecuhar kinds of sea-towl; wher, feeding on tish, and wistung these shands in flocks dense enough to obscure the tught of the sun, have accumulated the troppongs to an extent that seemis almost meredible -The accumulations attammig, it is sad, the thickness, tai some places, of 300 yardsVast quantues of this manure are used by the Peruvians for all kituds of crepls.
It will not be necessary for me to detain sou with a particular account of the emithtuents of Guano as ascertained by clemical analysis. According to the views of Inebng, and others almost equally celebrited in the agricultural department of chemsiry; its fertilizing effect is to be attributed to the nitrogen it contains, in the form of ammonac and uric acid, (the latter givng use $b_{j}$ its slow decomposition to the former), and ats, but secondarly, to the phosphate of hane, which furnishes many pla its whath matters esisential to their healthy gromth. Ater this short preliminary detai), which it was thought might possibly interest tome of the members of the socsety, I prowed to give an account of the experiments with Giduto et the Kirk Onchan Nursery,
On a soil there of a light and poor nature, which would must decidedly desprve the name (to use the language of the farmer) of a hungry soil, were growing and shil grow, two patterns of grass-one of stickney's rye-grass, mixed with small quantutes of holcus lamatu (woolly solt gids:) and poa trivialis, the other of Italian ryc-grass. A space was measured off from each ot these patches, and on the 12th of May last buti the spaces so measured off were top-dressed with Guano, with great care, at the easct rate of three cwt. per acre.
On, the 20th of June following, one square yard oi the dressed and undressed spaces, taken as fairly as possible, was cut and carefully weighed in the presence of Lawrence Adamson, Esqr., of Duuglas, who had taken great interest in the experiments.The following were the results:-
finst expendment.
Stickney's rye.grass, and small guantites nf Mlalcus Lanatus, and Poa trinalis.
Of one square yard, dressed with
Guano at the above rate, the pro-
duce weighed.
${ }_{3}^{21} 1 \mathrm{lbs}$
Of ditto not so dressed.
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## SECOND IEMREMMENT.

Itcl:an rycegrass.
Of one equare yard, dressed whth Guano as above, the produce weighed...
Of ditto not dressed julits.

The:Guano was also applicd at tho same time (12th of Diny), and at the same rate, to a row of young elme, and on the 30 h of June this row rould be distinguished, even at a considerable distance, from the others, by its deep and healhy green, and more freo and vigorous growth.

The Gunvo uas aho andiced to "rou of Mrelins with pro, r'y suitu ande, the neightuming rous decidally partahing of the benefit of the application.
Oat a raw of strawberrese, and the noish. bourmer row e, eflects amblar to the last were produced.
The Guano has aloo been npplied, atter the above rate, to datiorent hims of potatieer, to Swedisin turnp", to Mangel Wurzel, and wher vegatable, in remp ction whilung Tha growth prodaced by the Guano has, in all thece caves, been exceedngiy healthy and sumpur, but it is tet lemgearly to gave the completr companative results.
In the mean tine, I have thif dar produced to the surfety, specmens of turmps and mangel warzel, ds grown wa each manare.
'Ihe cutramedinary ennenquences of the ypromone on the grasees suem ( $t$ is most reqpelfinly submition to the suiety) tu Gume, as a mpodressing for the general rum of land under grass for hay.

## Thomas Lize.

Onchan Nursery, August, 1 si2.
The reprort nas listened to with much attention, and hudly cheered wa ts concla-sion.-Engrish paper.

Educate lour Cumpafy Cably. What is the olject of education? To form the character. How is thes to be dune? Not by lessons, but principally through the imuehec of example, and carcumstances, and situation. ILuw soon is the chad expused to these ufluences! From the moment it opens its eyes and teels the pressure of its muther's busom-trom that tme at becomes capable ot unterage what passes around it, and knowing the diffrence of one thung from another. So powerful are the grafual and monoticed miluences of these early monthe, that the mfant, if indulged or humotred, may grow mino a petty tyrant at ten months old, and tottle aboat in two years, a selfish, disco.tented, irritable thing, that every one but the mother turns from in disgust. Dumig th.s perioc', every human beng is makug ts first observations, and acqurmur tis first experienre; pasess his carly judgments, forms opinions, acquites habits. They may be mgraned moto ther characters for life. Solne right and some wrong nutuons may take with tirm hotr, and some mpressions, good or bad, may sink in deep as to be with scarcely any foree cradicated. There is no doubt that many ot these nocurable crookednesses wheh we atr bute to nature, would be found, if they conta be traced, to have originated in the early circamstances of hfe; just as a deformed or stunted tree, not from any natural perversity of seed, from which it sprung, but from the circumstances of the soil and situation where it grew.-Journal of Eiducation.

Eably Fommation of Good Madits.If a child is neglected till sts years of are, wo subsequent education can tecover h.IIf to thes age it is bruught up in agarance and dise iphitum, in all tace basencess of brutal habits, in that vacancy of mind which such hahts create, it is in vain to try to recham it by teaching reading and writing. You may teach it ihat you choose afieruards, but if you have not prevented the formation $f$ bad hajit., wa wall teach m bath. Whit children under the aye of six years, learming -school learning -should not be the chef cousideration, but the furmation of moral consiciatwh, but the
principle.-Brougham.

Reabing-Oi all the amusoncents that cun innesibly bodmagued for a hatd working man atter his daly conl, or an tis mtervale, there is nuthong like readug an interestint nemspuper or buok. It calls for no bodily escr': hi, of winch he has already had enuayh, or perbaps to much. It relieves bis lieme of its dulluess and sameness. It tramports hum into a livelier and gayer, and more dierethed and interesting scene; and "hile he enpoys humelt there, he may forgot" the criss of the present moment fully as much is it ho were ener so drunk, with tho great advantage of findmg hunself the next' hay whth the money in has pocket, or at least had out in real necessaries-and without the drunkard's misery of mind and body. Nay, t accumpahes him to his next day's work; and If what he has been reading be any thing above the illest and linhtest, gives him something to think of besules the mero mechanical drudgery of his every day oceu-pation-something he can enjoy while absent, and looh forward with pleasure.to. If I were to pray fur a taste which should stand me instead under every variety of circomstances, and be a source of happiness and cheerfulness to me through life, and is sheld against its ills, however things might: go amiss, and the world frown upon me. it wonid be a taste for reading--Sir J. Her-. schel.

Smithitieln os a Market Morning.There is mpeh to see and something, it may be, to smell, in Smuthitield on a market mornmy. Its pemned thousands of Léicesters, South Downs, and Merinos-its countess. thousands of fatted swine-its multitudes of hientug limbe, pretty deare, so soon to bo swal'owed with mut-sauce, salad, and the usual cecteras-its streets of living oxen', whose broad baclis furm a level leathery fleor, over which you often see adventurous drovers, stick in hand, take their desperató way. Corpulent graziers, with leathern pocket-look crammed with Bank of England notes; enterprismg knackers, wholesalo dealers in that favourite article of food-horse-flosh, subsequently retailed to the lieges in "a la mode" beef, mution piés, sausages, and a varicty of other many cos. tumes; lynveyed salesmen, who have but to glance at a beast to know how many stona he werghs, offal melusive; journeymém butchers luohatg for a job; policemenon. the cent for a roving pickpocket; chawbutuns m smock frucks, munclung bread and cheese, or gazag histessly around froni, the secute eminence of a waggon, load of hay; shepherds and drusers from all quar:ters of the agricultural worde, and you havo a morning at smatheld. - The World of Lundon, in Blackicood.

Extraondinary Root or Barlef.-A single root of Barley was exhibited at tho meeting of the North Suffolk and South Nor: folk Agricultural Association on Wednesday last, wincin consisted of 122 distinct eare. This root was the produce of one grain of barley IFalf a perch was planted in single. grams on anache of land in rows four fees and half apart, and twelve inches distant in the rove, and yroduced forty-four bushels..

A great naiural curosity was also exhibited, benng a small branch of a tree, the leares on one hatif of wheh are horn-beams and on the other American oak. Thero aro tiree of these trees now growing near each wither the the cunty of Noriolk, all of the same description. They are apparently of tweuty-five years growth, and it does not appear that this remartable phenomenonizai


The following report of a Lecture delivered by Dr. Mandi:s, at the late meeturg at Edinburgh of the Mighland and Agricultural Society of Scotland, we copy froin the reported proceedings on that vecusiun, which are highly interesting :-
"At three o'elock, Dr. IIenry R. Madden, Penicuil, proceeded, in presence of a numerous audience, assembled within the Society's museum, George the Fourth's Bridye, to deliver a lecture 'On the cont'tion of the soil at seed-time, as influencing the future prospects nf the crop.' Lord Dunfermline occupied the chair.
"Dr. Mandes began by adverting to an error which to some extent prevaled, hat before the farmer could apply chemical dis. coveries to the purposes of his own pursuit, he ought to be in truth a chemist It was hs absurd to say so as it would be to say that no one could follow medical advice unless he were a physician, or that no one could make use of a watch unless he knew all its mechanism. He proposed simply to give an account of the different variety of soils at the time of putting ties seed into the ground ; and in the course of his observations he trusted he would be able to show that theory and practice were not so diverse as they were generally supposed to beThe science of all arts was discovered by looking into the practical effects. Whe first thing that occurred to the seed after sowing was germination - to which process, air, moisture, and a certain degree of warmth were necessary. The soil was the velicle through which these were communicate! to the seed. With respect to the mechanical properties of the soll, it consisted of particles of various shapes and sizes, and these were generally porous, though some of the smallest assumed a sold form. The fine dust of soil is found by the microscope to consist of broken down vegetable matter, and he had endeavoured to give a representation of the character of those particles in several diagrams, (to which Dr. Madden then referred in detail, to illustrate the variety in soils). There were two distinct kinds of pores; first, those which ran between tife different particles, and secondly, those which existed in the particles themselves. ' T ': diagrams ropresented soil when the pores were supplied with air alone, where the pores were superabundantly supplied with water, and with water alone, and when the pores in the particles were supplied with water while the other pores admitted air. The last was the proper state of the soil. Another diagram represented soil in which the interstitual pores were obliterated; this was in fact a clod, and of no more use for germination than a stone. The first state of too great dryness was very rare in this country, occurring in coarse sand, and the mode of detaining the moisture adopted in some places was to leave the stones on the surface, so as to prevent the evaporation of water. In the second instance, the water was absorbed by the pores of the particles passing through the canals, and the soil remained damp or moist, but was not wet. If, however, from the occurrence of spring water too much water for the pores was furnished, the canals must of necessity be filled. This was the condition of undrained soil, and the whole process of germination and vegetation were materially interfered with. Hence the necessity for thorough-draining. The first effect of this state of soil was to exclude the air, which was essential to germination ; the second was considerably to reduce the temperature of the soil in summer to the extent somotimes of six and a half degrees, which
the sea-so that supposing two fields o. he same level, one of which was in a proper state, and the other was undramed, the difference was the same as between a field near the level of the sea and a fied as lofty as the highest of the Penthand Ihlls. But while the temperature was lowered durug summer in undrained soil, it was rendered unnaturally high in winter; for while the change of temperature amounted to between thirty and forty degrees in the course of the year, the temperature of soll saturated with ivater ranged only beween some 6 or 7 degrees; and thus the healthful inlluence of a variatiof in the temperature was lost. Dr. Madden then proceeded to shon; in like manner, the necessity of attending to the pulverization of the soll, so as to prevent it from getting clolded, and the advantage of drill-sowing. Ite adverted to the benefits arising from attention to such points as those he had bror olit under the notice of the meeting, as reglect of the state of the soil, carelessuess in sowing, and other circumstances within the control of the farmer to some extent at least, were calculated to affect the seed in its various stages of germination, growth, flowering, and ripening. If any thing caused the plant to flower too early, the produce was not so large as it would otherwise be: and so whatever tended to interfere with the due periods fixed by nature for the healthy performances of these various processes should be as carefully guarded against as possible. After some remarks on the necessity for calling in the aid of practical knowledge to correct the hasty deductions of scientific inquirics, the alverted in conclusion, to the great utility of applying the results of scientific research in the cautious manner wheh he indicated to the mprovement of agriculture-an art which was at once the most important, and the most extensively cultivated.
"After some remarks by Mr. Aitchison, of Drummore, and Mr. Milne, espressing their warm approbation of the lecture, the mecting separated."

Protection of Plants fhom Frost. Now that the protection of plants from frost is a first object with all possessors of gardens, we wish to direct attention to one fact which is seldom considered. There are many trees which will resist the effects of our frosts without any covering to their heads, provided the roots and stems are carefully guarded and kept dry. Among this number is the Magnolia granditlora.Formerly there were trees of this species in Paris-and they may possibly still existwhose only protection in the winter was a heap of dry straw piled over the roots, so as entirely to cover them, and thatched to the height of 5 or 6 feet, so that the head of the trees formed the apex of a cone, the body of which was straw. By this precaution, the earth is unable to freeze, and the fluids in the interior of the tree are maintained at a temperature approaching to that of the earth. While, on the other hand, if the earth is frozei hard, the fluids in the roots are frozen also, and they thus tend to lower the temperature of the fluds and the branches.But this is probably not the only reason why tender trees are preserved by ths kind of protection. It is to be observed, that the destructive effects of frost are in proportion to the succulence of the parts on which it acts; and it may be that the contracting influence of cold graduall: forces the fluids out of the unprotected branches into those lower parts which are guarded from the action of cold. Then the branches being pro tante emptied of fluid, or, we may say, dried,
bility to cold. Those who are disposed to try the effect of protectiog plants by thatchinit or burying their roots and stems must, however, bear in mind the necessity of the substance employed being dry, and applied in sulh quantity as to keep the earth really protec.ed from frost. All the tender roses may probabiy be preserved in this way.-n Seicetcd.

Flax.-It is considered the best managoment of flax to be dried after pulling, and safely kept under cover until the following jear before it is steeped, it is then steeped in the following manner in Flanders:-
"The flan, before going into steep, is neatiy bound in large bundles, with a strap round eachend, and one th the moddle, caro being taken to have the ends very even. It is then laul neariy upright in the water, after the manner m wheh it grew, each row in. chmog agarst the otner. It is then covered with straw and mud-(stones would do better, but they are not easily had here).It remams in this way, until it has sufficient waier, wheh is known by the fibre turning a hutle glatmous, and leaving the straw treely, when bruken about the middle. It is, immedntely that it is ready, taken up, and put into binns, or on its end, to drain for t.f, days: afterwards spread out on tho grass-for how long I cannot say; as its stay there will be retarded or accelerated by the good or bad state of the weather."

Tue Usc or Snufe.-With that he thrust his hand into one of the large fiaps of his waistcoat, drew ont a ponderous gold box, extracted enough from it of a black looking powder to have charged a musket, and crammed the dust up his left nostril. "May I ask what that stuff is!" said the Chevalier; "I have seen a great number of persons stopping thear noses with something of tho same lind, as if this country were famous for bad smells, and they wanted to keep them ont." "I will tell you what it is, Chovalier," said Mr. Longshanks; "it is what we call snuff, the power of a poisonous weed, which by this process is rendered very serviccable to our frailties. I have heard that you think us all mad, jut that is a mistake; we are only all foolish. This snuff gives a man something to do when he has nothing; spares many an empty head the trouble of making an answer; gives p. hiticians, hypocrites, and knaves time to compound a lie when they have not one ready; furnishes a wise look for a fool's.face; enables men by a grimace to cover an emo: tion, and prevents people leading you by tho nose, for fear of dirtug their tingers. The Commissioncr.

THE ARRANGEMENT OF THE FARM-FENCES-GATES-AND GARDEN.

Arrange your house in order due, Your garden, gates, and fences too; Neglect's offensive, and what's worse, It helps to make an empty purse.

Keeping ur of Appearance.-Dr. Frank. lin says-" The eyes of other people are tho eyes that ram us. If all but myself were blind, I should neither want a fino houso. tras equal to an elevation of 1,950 feet above lare thus deprived of a part of their suscepti. nor fine furnture." $^{2}$

## PREPARATION OF I, AND lOR CROPS.

## (Continturdfom gat intis.

In.this case, the lame may be plouched in a direction at right angles to the uracutis ploughmeg, that is, it the direction in wheh the future ridees are to ran; but wath io better to plough somewhat dageralle, that is, nearly in the drectimn hom commer in corner of the field. Thas is dote mardor: thathiwo suceessive phourhume may mo he in one dircetron, for the sont mioughang on
 necessarily be lenpthwion in the drecaum of the vidges. Det by devatite from the directum wht the pioughmar mow'o te men, the two successine plourhnge wit eroes each other, and thus the athag wall be he tor pertorned.

No sooner is this diagonal phourimugr compieted than the prucese oi hatontat, tuthing, and cleaning the rromed of the routs ot vivacious yecds, is to fo ranched, preandy
 necessary or exprodicat that the prom ses on harrowing shall he cotried hather hasis ts absolutely reguired to hisengraze the wectis: but tg chis oxtent it is maponant that te be carried, so.int the land may now be clenad.

Thesetwo plonghings, with lien coresponting liarrowitges, are of the umone ithportance in the manamament of tion spmonerfallow. If the weather has hren lamomento, the fand may now be expecied to he chice tually cleabed. and thus for in be in fand or'ter. "Somntimes a furthey plonghing my be required for the parpose of compleaing the cleaniag process, but whe lier thas beso or not, the land onght now tw- be formed anto ridges. This is numessat, worder to pro. ride against the conamgancy wheng rans, which, were they to cecur at thas prom, when tie'land is laying in-a fat estn. widit so soak it as gready to retard lie futhre labpurs.

We now, therefore, proment to cerile the furcows in the manner formerly explaind. Thedandtis then plonghed and lormed ino ridge, and this completer the fifh wlongh-ing-which it "has recenved. The lind whll generalsy be now ready to have the dung laikuponit: : Jut meone cases it mev requatea sixith ploughng before th is sufücientIs cleaned and phepated for the dmor. In thiscase, whe dand being harrowed. and the remailiti:g weedis collecied as formerics it is ploughed agan in the line of the rulpes.

Weming proched, howerer. upn the senpositiont < lint lhis lurtiker ;longhing and cleatingr are not required, and thin thie hant, after the finth plonighner, is roady for the application' of the dung. This nny brmy us, int the ordinary conrse of harning, to the month of ritgust.

Now the dung. according to the practicn before described, has heen preworsly carried out and lad in larechemese att lid temb. where it las undergume a corman degrec u: fermentation. Shomill tuis no: latn al an place suffoininty: the beape hast be turnet, so that the dung nay ue braught at a the state for use.

The dung is now conveyed in 'in inni in
 along lie ridges. is is dragided out roun behind by the worlimas on:h tac dunirerante into heajs, as mearly es pessible ai muat size, and at cepal dainllese, for rows along each ridged Sunctimes, to ensure arectracy, the ridges are duvides. by iurrows ran
 apace, rgceiviog its allomed puraty of duaglut in geseral, the eye and practand hmeledge of the "wortman, will chable lum to drag ont and deposite the heapes in the quan:-
tivent witinthe accurncy that may be re. of:all.
S. $n$ yli rue we wing be females or





Cloce upne the wrots of the spreaders. then fiomeres $n$ a 10 fillow alld curer the
 st that; wife it ahughing covers the dures, thenemrature of the ratre is inerased

The d. un bermer coverpd in this menner. and the may raned, the latel t.e to raman

 the soil. W!en the dung has been previ.

 short time.
 ? 1 llo! the : ect-farrun, whatats the alonghing er en tu in fre who to the reeds hemg In this the-ghay tie notge as atems
 in, il hablate citut an ramoligg the ralge hisher.

Ator this finel ploumhurf, asd umne ihn surfaer 1:ow erposed, the seods, tamily of wheat, are to be sount, in the manion to be.
 flace aliont the madie of ispopember or later, and completes than mportant ninarairns of the summer-fallow and sowiug of the wheat-sededs.

It the deatat kt momaer of arplyang the
 wion in tor ne' lny ad be thation of apply-


 may be apptien, - eitior before the dang is haid on, or afterimers. In tle former case, ilm lime may be lad on just ature une land hes hem formed into whyes, end when it is ready to receive tiedung:-
 hilrir, mas be lumt tuma in heaps of about five caris each, at legtiar distances, upbn the headi-bich or where concement in the case, it ss bromitit o the farm as apporinmity ofers, cud slachud sluw ly, as:d, reguharly
liben te are propaved to rיsead n! upon the groand, a persun vith a broad-ponted. sline is apponaed io each fheap. - He filts Lus cat, drwes it aloner tho rager and Sircods ine itace abroad upan the surfare;
 from the gare lichant; semelunes mon.carts bad two imen may be appointed for caci! incap, the one man fillets the cart at lie heap and we olher spreading the jame upon Mre ${ }^{\text {aditge. }}$
Juth wen ami bores sometimes equeri-



 shon!d be covored.


 ding is to bo srrear upm the goumd, whid ravered by the puogit in the matmer before deacribed:

If fremonty ile summ is firat suread, aut the fime ta zo bid of umail just beforg givng the secdemrow 1hn ansiber very
 tane after the dung has heca spread, sf that may be decompósed and mised with

These detals have atr especial referente in tre atiffer sods, which are those on which: ihe whaterathow as generally practused. 1 IInol tie lig!ter sulls are to be fallowed, lim preeres of cleaning is more casy, and there in less hazard of serious interruption fros lhe state of the weather. 'Lhe:only whithan vall repard to the heriter sols phat need bo referred 10 , is in the first springfhughuyr. In the case of such soils thig bughnim, hay be gren at once across and lhe process of harrowng and cleaniag then
 burnt pursued th the case of turnips and. simila fallow-crozs ; so that, when, the, lt rime chaprelectids abe operations of the sammo-falfow thus far: he is acguambed t sth the manioy of preparmge the laind for' an extenstre and important class of plants:

In the precudiar detan, the ondanary: opewhita w the smanter-fallyw have becnodescribed; but the nature of the seasons, the rato of the land, the pretaling weeds to he cradic, ted, mal wifice cercumstances, prodace tabtions in the course of managemont, which, lowever, it is not noceseary ucre io punt out. ihiey are litile, sulyect (u) ruir, bat are hest determaned by the judruent of the farmer, as the cases liempselife arinc. A more important purpose is served to the student of agriculture by puinting ont io him tue manner of managing fly smanaer-fatluw upon approved jrmesples. Knoware thr, a hithe experience will soon. show him how to adept those samations of practice whicil the state of the season and other circumstances imay render expedient.

The process of the smmer-\{allow, conducted as it should be, enables us to effect the tillage of chay-landsun a manner calcu: hied to cradicate weeds, and ht the hand for bearing a lenghicued rotation of crops.

After a complete summer-fallow, the land is secu to be 11 the best order which cirs cumstances will allow. It acquires that moloon ness, molicative of inrility, so famuliar to the cye of the farmer, ret sy dificultion be described. It is frequenty observed. by formers, that riay-lands in this climate get mo an adheswe, and, as it is termed, a sour sta'e, by the long repetituon of crops. "1ho. giving them from tune to that the mellowind intuence of a suminer faions, during. which weds may be extirpaied and the manures apphed in the most beneficial manrer, is frumi to hate lie best effectsin restor! ar the fertality of the soil and fitino it In giedil an morcased pruduces, in succeceding vears. Onc advantage, too, of the summeriallow, not io be disregarded, is, thatit dilibes the hatour of tilling a farm more roGularly throughout the scaşon:"

Recint fo: Ther Cunt of GMLied Backs of Monsts.-Apply white- leadnixicd wih mill. Should this fat, and bóls begin. on swall up near lic parit which has been chated, clatere it for a small quathity of khached liate spranked on the gailied spota iusee a day, till a crust is formed, and giye the hosse soitu salipetre din ounce should
 sprabled on las hag daily. This ss ofien teveial if the horse was very much heaicd at the than he was galled: When ihe skiu tr hered, hacp it abivas Wacked with a mixare of tallow mad burnt corla sillthe har grows. Thes wit othen bring hair of the orighal rodor. If cook cinnot bepros. curct use alder coat.
Fon tine Curesof a Sting of Wisp or Biza,-Ammoina, or ihat called siSpirit of
Hartahorn," 15 an eftectual remody for this


## AGRICULTURAL . RU'ILCTION.

## TOWNSHIP:OTISQUESING.

A public meeting was held lately in the above Townshiph called in due iomu by the Town Clerk, in compliance wah a reģusstion signed by several respectable frec: liolders. The object of the meetiner is so clearly explained by the subjoned Petiuon, to both branches of ithe Leerislatiac, that it foregges the nectessity of any cumment on our part.

We would however, beg to surgest the propricty of a similar pesition beiter dranta up, and presented for sifthatures at each Town Meethar througtiont the Pronace, which :akes place on the first Monday in Jantary next.

Agricultural Societies eloond also take unthe"question with spirit, at their t.c.st annual meeting. The buon math has been 80 long whheld, is now wahan our grasp, if all that aremterested be umted and irue to eachother.
"That agriculture, includag both the tillage oo the soil and the gramat of cattit. is a perpetual soure of manad ticalha .uth prosperity, and the neceasar'; basos on dha manuiactures and commerce.
Thatu ats encouragement has, therefore, under every utse goverament, and mevery well-regulated state, been umbrmly censidered as a measure of prumary majortasice, antidite neglect of that encourarement, where, it vecurs, must never fatl to be esteemedra serious error in those who preside over the adimimstration, and an, absurd ano. maly mitac fundane tal maxims of tatoma! policy.
fithespreviousthe yoar 1632 , certain deties existed in Chata on the unportatuo:. from, $\begin{gathered}\text { reign countries of flour, wheat, and }\end{gathered}$ othertgrain, on live stoikl, and on beef and pork selted.

That in consequence of a casual, zod, consequendy, a iemporary atarety th the, Province, an act was purad.a adot j car, called bie "Camaian Trade dut" wowh gave free audmissiva to all foreyan abt،cuicural produçe.
That thercafies, wien the reasoss whech ' induced the passing of that aet ceased to operate, and whea abumance, mad otea a superabundare, of agricmiatal jroduce uscurred in, the Proviace, the act was sim, allowed to contupe athe:eng protectu a was rejurically solicied ly petituas to tite l'ro-
 cessive Parmament concurra. ha the neces-
sity of afiording that poteot sity of priguring that protection, in whis. addressed or passing resulations tor ampns. ing an adequate daty on Unised States produce

That an exinoordmary uphetus in e:ery 1 branch of agriculatere has tor sume ime past been fostered in the Cathen, and espectat! in the Westera States, ta the arodurtio... wheat, and reariug and fattoning of pors That if:tins mppetus ohas bexon erusomf to 1 certaingexsent by the prodeat amt casoar raging Systemhof prosccto:n afiorded wy that Goverunchit to prrciltare, it has winues. tionally been not tess'so ty the anj driv, in this blyofnce ; and yot the karmers here have, bjt the ignozant and uniecieng, veen


 areathate ua hatate cher veen assughed at
 two. va: - 1st Beratse toth patertion waid be regagiant to the priac pies of freo


 ers on the fakes, canals, and rivers of 3atioh imerica.

That the former of these objections is so mapably absand, that the pentumers cannet


 duruser, who dure tut enter a starhet on the Suic-, mandut payng a daty at hat hens


 all times treely open?
That th renard to the hatior o.gection,that the protecoun woutd be pregude at to the materests of the matars or manthatarers of hume, atad od ine torwarders on tue tahe:,
 the thanata be hue what wach me puthonaers started, (athe of wo correctutes iney can possbly entertant no death, wio: : that argro culture ts he necessary bists of ahtmath-1



 of the mallers of Ruches'cs, (ico-lowh, that milhums of barrels of hour manafactur- $\dagger$
 Comathativir ; ad at in adatat that, in reality, the remon at oi hat protection, wheh ta enery well-goterad atate, to deelated essental io the suppot of the agricutare, has been an bron hathere tothe danadian m!ler, wiste, outhe vilee hast, it is evadent io a denuastraton, hat every cacoarage-

 vurable efiert on all trates, mandatiares, :and professmas whatever w:hata tie colony.
That crenaihongh it were admited inat










 stut, thas angmented, arc h.6: mooe than niac-tenths in muainer of the aggegate

 sacrace the im a soinsing in practice to


 a pointes to suppose, that apher manafor.






That your Pemances andurusly hupe thai you: Ilurourabie ilmose ate but ioo sensible of we ganag onfustice to. which they have;

Mes thereture, please your Honumablo Hhate to ation the necessary measures for the we it, swh a daty on the whortation,

 duct wo will aidud a conputant protection whe C wadum tumer, at leate equivalent what curaed by the same profossion in the Linited States.

> And your Petitoners will ever praj, sce"

## Frum Lixbeg's As riculural Chenistry.

Whatever bers we may entertain rerathar the orga of the fatity constrments of the lody, the taseh at least is undeniable, that the herts and roots consumed by the cow cemtans wo buter, that in hay or the uhet mader of eacn nu helisuct exysts: that to log's lard can be foand ia the potatoe refuse grvento swine; and that tie food of seese or forls contain no goose fat or, copon fat. The masses of fat dond in the Lutura of tha ec abanls are tormed in their trathent ; ad wima the fuil ialue of his Fat to rectuized, it catule is to concludo that a cerian quanty of oxygen, in some. fuan or oher, separates from the constitucuts of then toot: tor no fat cond possibly ise turned from asy of thene substances.
Tue chanal analyous of the constituents.
 Cuatwe tathacr, that licy contain carbon; aud us egea ul certan pruportions; which,
 huing series :-

In vegetabie fibunc, albumen, and caseine; lhese are conta:ned:-

| For........... 120 eg. car. |  |
| :---: | :---: |
| In Starch. ..... 120 | 100 |
| In cate sugar.. . 190 | 110 |
| Ingum........ ${ }^{\text {d }} 0$ | 110 |
| la sugar of milk 190 | 120 |
| Ingrape sigar. 120 | 140 |

Niwe watl faty dedes alere are contained, on an averare :For........ 120 eg. carb, only 10 eg. oxy:

There n, licrefore, but onn way m,whichsthe furmatan of hat in the ammal bodyis os In stith, wal this as aibsolutely the same int
 it is acturativa ut oxigen tein the eletaents of the fued. And the oxygen, in fact; is 5 what the the sate forms as that which $\therefore$.ata fuan ule. atuosphere by tho 1. 'a hid...jes. It is easy is see from the an ectade...tion, data a ery remarkable (r) . . + , 4 cassis i, ctacen the formation of at and the resparatory process.

Ia the Bownh isles, faraners very-genenadi; cu.iract "ahi bleck-smaths namuallyn, for therr woik. Noar Edinhargh, farmers pay abuat turee postas per amoun for each a anar of itcoes, cunsianty leppt at work, ju-... ctaung pitutang, pluagh, and cant repars, but wo reutwal of these hater mplements. In fronland, these horses, ploughs, and: carts, ase curstanly lept at work through-. wat the year. In Cumada, the charges.. of ent
 every trithey job, a charge is made, that. fi cus a larec amount aumally for the whale... of the wort done for a farmer, The systemr of mahng annual coptracts shouid be in-a;
 on wi, whe the ticesid of kecpipdacse

## TO KILL WEEDS.

Is thero any manure that will kill woceds 7 is a question not unfrequently put, Will nitrate of moda, or nitrate of ammonia, or guano, or urates? That such questions should be asked, proves one thing at least, that thero is a general desiro to know how to exirpate weeds. We wish wo could add that diey also indicato some acquaintance with the rudiments at least of vegetable physiology.
Weeds, like other plants, have ench their peculiar constitution, prefer certain kinds of food, and perisit on the application of others. Wo have seen a pound of nitrate ol soda administered to a Seaknle plant without visible effect; halfan ounce would probally desiroy a Rhododendron. Common stable manure is prejudecial to Coniferaus plants, and in overdoses will kill them; an oak feeds greedily upon it. So it is with weeds. Excessive doses of salt will destroy all vrdinary vegetation, weeds included, but promote the growth of asparazus in a most remarkable degree, thas proving itself to be a poison to one plani and a' nutritious food to another. But salt cannor be used in large doses to extirpate weeds generally, because some, like the asparagus, may fiourish under its action, and most crops will certainly be destroyed by it, Professor Henslow succecded in destroying moss and weeds on gravel walks, by mesns of corrosive sublimate, green vitriol, and blue ritriol, especially the last. But corrosive sublimate destroys every living form of vegetation, as well as the weeds; and the two sonts of vitriol heve no permanentaction, encouraging the subsequent growh of many sorts of planis; and so promoting the vegetation of weeds rather than destroying it,

- In practice, these chemical agents can only be employed for the destruction of weeds in certain pecial casce, such as the asparagus, which thrives mider dosos ofsalt, which kill most other plants or as tobaeco, which feeds grecdily upon quantities, of nitrate of soda, which would destroy any ordinary vegetation. In general, we must look to other means for ridding ourselves of trouble eome weeds, and we shall find those means in industry and common sense. The two serarate are good things, but they are better mixed toge. ther. The plain and obvions rule is to pull weeds up as fast as they appear, and while still in the state of seedlings. Then every plant that is removed is effectually destroyed, and leaves no goong ones behind it. Any boy, at a half.acrown a weck, can be taught to distinguish them; and if the plan-is' persevercd in, there will very soon bo nothing for the boy to do. Strict attencon must, howeyer, be paid to their thorough extirpation when young ; it will not do to pull up alpoget all, and to leave the remaindur to soed ; for in that case the labour has to be all pone over again.-LIoudon's Garderers! Chranicle.


## AMERICAN TARIFF.

We were lately presented with a reprint of an official copy of the new Tarifflaw of the United States, bat are ablo only to give the following extract whech, has a particular bearing on the agricultural interests of British America:-"On beef, and pork two dollars per one hundred lbs.; ony, checso, mina cents per lb.; on-butter, five eents per lb.; on lard, three cents per lb; ; on wheat' twents-five cents per sixty poiunds; oats, ten.ecnts per bushel; ;re, fificen eents per bush. al; wheat four, serenty-five cents per one handred and imelio pounds; potatocs, sen cents per bushel."
$\Omega$ will'be scen by the above scale of dutics, thet the agricultarists of the Unitcd States are sufficicichly proticteded from forcign competition: indèed, the dutios on many'articles are so high that they will'amonnt- to a direct prohibiuion of toreign produćci It is only naturel ánd recason$2 b \sigma^{\circ}$ to cipecet that ọther agricultural:conntries. tho hape extengive intercourse Filk the United

States, would meet them on their own ground and reciprocate a scale of duties to be levied on the produce of the soil nnd industry of the United States flowing into theirs.

American Checse, has been sold rithin the last fow wecks, in the Canadian market, for $7 \frac{1}{2}$ oents per pound, one and $\ddagger$ cents less than Cana. dinn cheese would be admitted into the market of the United States !! About two weeks sinoe wo saw upwards of eighty head of horned cattie, principally oxen, purchased in the State of Ohio, for \$26. por pair on an average. We would judge each beast to weigh on an aggregate 600 Ibs. nett weight, making the original cost of each beast a fraction more than oxen of the same weight would be admitted from Canada into the United States market! These are incontrovertible facts and argue the necessity of immediate steps being taken by the powers that be, to levy a scale of dutics on these articles commensurate with the importance winch the subject demands.

## TO OUR SUBSCRIBERS AND AGENTS.

We take this opportunity of tendering our sin. cere thanks for the noble manner in which you came forvard, in support of the only publication devoted exclusively to the advancement and proecction of Canadion Agriculture.
We have with this number fulfilled our engagemencs to you, and in conformity with our reras commence the Second Volume without at single subscriber. We trust however, we have done our duty so far as to merit your future patronage and support. Our success will depend much upon your excrtions, which wo hope to merit.

The Cultreator in future will be more uni. form in its appearance, and from the increased facilitics which we have at our command, will be more select and uscfut,

## A REQUEST.

Wre are led to believe that our joumal will recerie an enlarged circulation the ensuing ycar, and it is desirable that we should commence an edition sufticiently large to supply the demands during the whole year. Our Agents will do us a favour by informing us, on the reccipt of this, the probable number of copies that each may acquire during the ņext year. Of course they cannot alw̧ays form a correct estimate, but by giving us their opinien we will be better aequainted on the subject, than if we had no grounds to form a conclusion. A Cmecrar will be issucd in a few days which will be sent to all our Aggnts.

Tue Broce District Gatile Snorranonote should have been taken of the above Show in our last, but the remarks we prepared for the occasion werc unaroidably leftont. The subject sinall beattended to in ournext.

IT Some of our Subscribers haye complained of notreccising certsin numbers of our joprnal, It such be the enso they may bo had by ordering them through our. Agents: and any that wish tho wark bound complets andiaro deficient in numbers may be sapplied, as, we haro:a number febrofen satrs on hizñ:

## From The Cobourg Star.

## COUNTY DURIAM AGRICUL.TURAL

 SOCIETY.The Autumnal Show of this Socicty took plare at Bownanville on the 18:h Instant, for the exhibition of Stock, Grain, \&c., when the under. mentioned Premiums were justly a ararded to tho respective candidntes by Judges from the Nure thumberland and Whitby Agricultural Societise:
f. s.d.

Best Brood Mare, with fual at foot, T.
Garnet.....................................
Second best, John Frank -.................. 10
Best Milch Cow, R. W. Robson.......... . 2 o a
Secoud best, x Broadfoot.................. 1
Best Two Year Old Heifer, J. Middloton 1
Second best, Hency Munro.............
Best Pair of Two Year Old Steers, M.
Joness...
1 5'a
Second best, J. Broadfool......................... 015.0
Best ycar ofd Heifer. M. Joness........... 1.00
Second best, John B2wood ............ 0100
Best Pair of one year ald Stecrs, J.
Blackburn................................... 100
Second best, J. Broadfont.................... 0.100
Rest aged Ram, J. Middieton,............ 1100
Second best, R. W. Rolson............... 1 o a
BestSlicarling Ram, J. Relwood............ 1 0.0
Best Tup Lamb, John Gibson.............. 0150
Second best, do. ............. $0100_{1} 0_{0}$
Best Ewe, do.
Best Pen of Three Ewes with theirlambs
John Gibson................................ 1 Ko
Second best, J. Belwood,................
not full bred, J. Middeton.,..............
Second bést, M. Joness......................
Best Boar, John Bcavis.................. 100
Secnud best, Robert Brown................ 1015 a
Best Breeding Sow, R. W. Robson...... 100
Second best, George Wylie................ 0150
Best Acre Swedith Turnipe, J. Belvood 110.0
Second best, Dickinson.............. ... 0150
Best Sample of Full Wheat, S. Dickinson 1100 Second best, J. Blackbun Best Sample of Spring Wheat, John
Smart...
........ 100
Best Sample of Barics Robert Beith.... 1 0:0
Second best, J. Broadfoot.................. 0100 Second best, Broastoot............. 1 . 0 : Sccond best, Neill Gray.................... 0.100
Notwithstanding the wery unfavourable stato of the weather which prevented many from at. tending, the assemblage of members of the Socioty was rery numerous, and the exhibition of Stock and Grain, marked for numbers, varicly, and of a decided advancement- in improveiments, evincing most forcibly the benefficial effects pro duced by the establishment of such Socicies ind the country.
The busmess of the day being concluded, un wards of forty gentemen sat down to an excollent dinner, provided by Mr. Hynes, after which several loyal and appropriato ioasts were drank, and many jndicious remiarks made. Ararigemente having been eatered into for a Ploughing Match, 10 take place at an early date, the party separaied with feclings of much satisfaciop::and! pleasure.

MORGAN JELLETT:
Secretary:
Port Hore, 22d October, 1842.

## TORONTO MARKETS:




