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"agricoltore not onle gives miches to a nation, but the only menes she can call ife own."-Dr. Johnson.
VOL. 2.
TORONTO, AUGUST, 1843.
NO. 8.

"Ayricultare is the great art which every goremment ovght 10 provect, every proprietor or Innis in jractice, and every toqnitet jato mance foprore--Dr. Johnon.

TORONTO, AUGUST, 1843.

## to agricultural societies.

It was our inteation to bave propa. ad an article, embracing the leadiog features, for the better guidance of agricultural associations tbroughout che ebtire piovince, but our absence in the country, and other pressing business matters, havo prevonbed the catrying out of our plan in time for the preseat namber. The aubject, however, is one of too much importance to pass over, without giving it dao conaideration, wo shall thercfors endeavour to avail ouraclpes of the firet opportunity of giving it a place in the columans of our Juarnel.

The Autuma catlo shows ard fairs all whority cake place, and it is to be hoped that our efforts will aot be loat aight of by those who take the lead in manging the affairs of agticultural associations. If Segally organized suciuti-s do not conntunance tho Britisk American Cultivalor,-wo certainly are unablo to conjecturo from what sourco wo have a right wlook for a suppert.

In a report of a county socicty of the Stato of Now York, mention is mado of tho society subacribing for 500 conios of the lcadion asricultural

Juurnals of the State, and a few others frose vther Statas and England.

The Prairie Farmer, published in Chicago, llizois, is published under tho patrurago of an Agricultural Society, which guarantees the respectability of its matter, und punctual appearance.

The only way thet tho Canadians can profitably compete with their neighbours is to meet them on their own ground,-if they combine teience and skill with the practice of farming, so must wee, or else wo aball be louked upon as beiag behand the uge.

We hear of men growing rich by the prefit of Agriculural publications,-wo neither want ricbes nor honour,-we merely crave a aupport for our usuful enterniza, which will mect the engagements which we have made with tho public, end leave in our hands a sufficient surplus to remunerate us fur the timen which wa havo so amently and devotedly spent $m$ advancing the causo of agriculuaral im. provement.
We have at least 2,000 files of the back numbara of the present volume,-if thrse were disposed of, we would then be encuuraged to progress with renowed energy. Each socicty ought to order at least one bundred copies.

Sume time ago ne intimated our intention of removing the I'rinting Establishment of tho Cultivator from the city, bue laving concluded vers iavourable arrangrmouts fur its futuro publication in Tutonto, ha do nat intend to carry out our former purpose.

Tho Culliva'or twill, hereafiey, bo iasued from tho olice of $z^{\prime}$ he Buruce, No. 11: King.Sircet, Torunto, and wo bope the work will proced with. inouc regularity, and be placed on a rauch belter

## TOAGENTX,

Wo have been rery desirous, at a.' timen, to held out liberal inducements to our Ageats io exers themselves in our behalf, and have unde sevoral adranees in the liberality of our torme. Waharn bern dovising the conditions on which wo now ister our paper, and find that irregularing lras crepe las our tnanagement. This, we are determinen, shall not occur again, and the Cultivalor will be hereafter issued on the folloning cerms, from whech the slightest deviation will nut be madr.
One copy, One Dular per anaum,
Filieen copies, Ten Dollars.
Fifty copies, Tiventy. Five Dollars.
Cash iovariably whe paid in advarce, and ree mitued here free of posta
As weare anxicus that a copy of the Culticator shonld be in the hatals of every Pustmascer in the Province, wo mill send a free cary to overy Postmaster who forwards us the namo of one or more subscribers to the wask. The ohjects contemplas ted in the publication of tho Cultivator, areof sach deep importance in an ext-nded agriculural conre try, and tho class to whom wo mure particularly address ourselves, is so numerous, that the circulatiun of our pagar oughe to bo very greal. Thio prico, tod, is so remarkably low, (armiund the cheapest publication in Bitiath Atherica,) that ao one who has the amallest interest in the eivancement of agricultural improvement through the country, can have n pretext for not subseribing.
We are quito aware, that by a Iigid adherence in the Cash principte, we shall, at first, lose aome of our zolseribers, but in tho and, wo sre sure we shall gain by it. We shall, at any rate, know procisely, at all cimes, how we stand.

Tho September Niv. will bo issucd by the 30th instant.

## agRICULTCLE IN NOVA SCOTA.

A very neat and ably written Agricultural Report, published by the Gloucester Ayricultural Society came duly to hand, from which we make the following extracts:
"The great extent which the products of the soil within the Cumnty tho past soason, exceceded those of all former years, must of cuurso be meinly attributable to the tavourable weather expirtenced boiween seed tituo and harvest, as well as to the numbers which tho susponsion of commerclal and mechamical employment foreed intw farming to necury tho necessarios of life; at the same time your Committeo deem it proper to state their convictior, that tho interest excited, and the Im . pulae give a to cultiration through the operations of this sc siety, have largely tonded to tho accomplishment of 80 gratifying a circumstance."
"The consanuencea that muat inovitably follow a disegard of the advaztoges whlch the rapid and eurprising progress of Agricultural scionce now affords, will bo tho surest, but tho soverest remedy for the cvil. Every Agriculturist of common observation may already sec that tho bost farm managed on tho aystem of the last century, cannot successfully compoto with an inferior one receiving the bonctits of modern practice, so it becomes evident that the indolent or reckless follower of the old achool in husbandry, must be at anco arvesed to a sehso of bis situation, or he must bo propared to sulfor from short crops, and the decay of his land. To thoso who are disposed to impreve, your committeo have endeavoured to incul. cato the following advice, as thorein id somprised a corrective for the worst, and most prevailing errors of our farmers, viz:-- Be more provldent of your atablo and barn yard manures-erect mose substantial fences-provide yourselves with ploughs and plough your land oftener, and occastonally deoper-divido your cultivated land into folds ws paschea, and antublish a rotation of ciops, for thess divisions-raiso no crop two years in suc. coscion on the same patch or feld-use the choices? sceds for sowing and plenting, that you car possibly obtain, if you have to travel one hundred miles to obtain them, and uso no poor seed if you got it for nolhing-keep your breeding callo eneloard, and atho pruper season tako them to thoso onimala which obtarn premures at tho preceding cartle show of the society-kill your yo ing cattle that skow defecte, raiso those that appear pure; but aboye all koep no more caulo lian you have the means To rxx whli.'
"If your commitee can manago to got these few practical rules ubserved by a majorily of the farmers in this and the adjuining parishics, they are eanguine that the fruits will bo plainly distis. guislabblo before thrce yeara elapse, and the parties who adopt them, will then bo prepared to mako uxperiment of new suggentious for bnriching the suil, and facilitating vegetation, as well as be able to give substantial support to the society in the advancoment of agricultural knowledgo in the adrancoment of

- The recommendation of your committec, respecting the formation of compost heaps by every small cultivator, has been veiy gererally adorited in the pariah of Bathurat, and partially in the parishes of Borseford and Now Bandon, with some succese. Tho black mud found in tho Coves of the hatbour of Batburst, and tho tay, mixed with lime ar stable manure, has boen found to answer well on the sandy soil of this Proinontery: In the pariuh of New Bandon, marl which is fuufd there in great abundacico, mixed with sea weed, proven best adapted for general purposes, to the heavy graveliy soil of that diatrict. In the pariah of Beresford, manures containing a mixture of lime in any groat degreo, bove utterly failed in neurishing or onriching the soil; this your committec know can be satisfactorily accounted for on chemical principles, but it would be bero unrecessary to do $y^{2}$; the fact being now fairly suistantiated, it only behoves the membors of the socirty to dis. ecunterance tho une of lime thero as a manure, and to substitute swamp yud and sea weed, which your commillee ase sacisfied will answer every purpore.
"While ycur committed are en the sulject of manures, they beg to observe that alihugh it may
bo within their power to encourago very generally tho collecting and using manures, yet the judicious and proper adaptation of each denciption of manuro to the various soils and situations within the sphero of their operations, they have now only the tediuns mode of testing by a seties of experinents whereas if they hed the bencfie of a periodical visit from a genteman combining eciensuic with practical knowledge; a lecturer on agriculeural chemiatry-who would analyae tho sorle, :hoy would then bo enabled to anticipato this kncwledgo, and save yeara of toil and troublo in arriving at ic. Tho encouragement of euch a person well deserves tho attention of uur Provincial Gos. crnment; ond a small annual grant from the Provincial Treasury, with the esslatanco of the Agricultural Sociecties of tho counties visited would amply provido for an itinorant lecturer on Agricultural Chemistry."
"Amonget the articles of donestle manufacture which your committee were pleased to obserpo exhibited at the Fair, was a Fanning Machlio, on a new principle, tha Invention and manufacturo of Arr. Daniol Hadley, of Littlo Nipisghate, which was very creditable to the invontor, and they togretted that no proposal was made to purchase it. as an encouragement to the enterprise of Mr. H. and other resldent artists and mechanics.
"Tho condition atraclied to tho grant of premiums at the Catte Show-that is to say, that the animal for which a premium was received hould bo kept efficient as a breeding animol with in the county, (sofar as it was within the owner' powers to do so), for the twelvo months succeeding tho exhbition, was judiclous, as it socures :to ineans of extending the breed of the best animals, and many frem distant places havo already taken advantsge of it to improve their stock.
"At the Annual Ploughing Match hold on the 1st of November, the number of competitors was nut 80 great as was anticipated, owing to the state of the weather, but your cumnittee were delighted to obscrvo that tho nativo Acadians predominted. Ithe ploughing was exceedingly well periormed, and your committec have every reason to beliove that if these matches bo annually repeated, in two years tho natures of our county, to whose anquaintance tho plough is comparative,y bat late:y intrcduced, will be ablo surcessfully to competo with the best old country ploughunen, a circumstance which can bo atrabuted alono $w$ the influence of which can be
this society."
" At the time appointed for the Grain Show, the county was ugutated by the proclamation of a Eencral elrection; and the attention of some of the principal furmers was so occupied that it was fuund desirable to postpone the show of grain tiil the last week in January ; your commhlete, huwceer, are preparid to acqualnt the socicty that in the articlo of Wheat our farmers continue to excel, some Spring whito Wheat raised by Thomas Armarong, of Yuughal, last year, wrighed 6 Gibs. to the luyhel, some raisod within the town plot of Bathurst was over $65 i b s$, and a large crop of the sarao descrip tion of grain ralsed by John Richey, Eerg. of New Bandon, exceeds theabove in woights. Your committes would recommend that instead of importing inferior grain for the use of the menters, the nocicty would determino to securo from tho porsons named a quantity to disposo of next apring, for they are conisisent that so good grain as the best raised in this county, cannot bo cbtained elsewhere. Your committee will cause the proveed inga at the grain show to bo publisked separately, as is proves too late to ipelude in this report."
With all the boasted excellence of the capabilitics of the western portions of this Province, for the growth of breal stufls, there is no parallel case on recond where the extraordinary weight, pel bushel, mentional in the report has been produced, nor have we ever scen or heard of an instance wherein the weight of spring wheat equalled it, unles the one mentioned in a report published by the Restigouche Agricultural Society, of the sister province of New Brunswick, in which it is stated that a prize of twenty Nhillings wias granted to John Curric, of Pointe LeveLetne, which weighed go llss.

8f oz. per hushel, the aced of whel was unported loy the eociely the ycar previous. We have long since leen aware that the friends of arriculture in Nova Scotia were exertung their utunost influence in placing that colony in a healthy state; we consuder that the report reterred to, and others of a similar character, which have reached us, and the efficient steps taken by the lloards of Agriculture of that province, are sufficient grounds to strengthen the belief that our sister province is destined to rival in the growth of agricultural produce, the Canadas or the adjacent States of the Union. We asgune our reaters of the sister province that they have adopted the right cotrso to attract the redundant population of the British Isles to their shores; and it will only require the other provinces to follow the noble cxample which has been so liberally set them, in order that each may obtain a fair share of the wealth and skill of Britain. Mark, what is said of the fanners of the old school! The aseertion ber made is verified to a nicety, in many portions of this province, and we are happy that it is in our power to add, that now and then are instances to be found, where an enterprising farmer is patriotrically devoting his energics in exploding the errors of the system of cultivation practiced in this province. They have not lost sight of the aid of the press in the province of Novascotia, to further the alvancement of agricultural improvements. Intiependent of the county periodical agricultural reports, which are gratuitonsly circulated among the inhabitants of all clasees, that province alone, has two ally conducted and efficiently supported agricultural papers, which are subacribed for liberally, by the several agricultural sorictics of the province. We noticed in one of the reporta, that 500 copics of the Colonial Farracr had been subscribed for the use of the vocicty. We cameatly entreat the farmers of the province of Canada, to examine into the cause of the distress which every where prevails throughout their land, and adopt every legitimate means of permanently alleviating the complaind of evils a cure is within their own grey, but to obtain that cure, they must make use of the means which have beer so bountifully paced in their hands. All the latel-work that legislative enactments can do for us will avail nothing so long as there are so many drones in the live. Tos great a proportion of the population are endeavouring to live by their wits, who, insteal of producing an cxtra blade of grais, or an car of com, am consuning the produce created by the toils of the husbandmen, which should go to pay for the tia, sugar, coffee, and other necessary im. portations, and thus aid in cliaring the country of debs. The only immoliate remedy for the tiancs is to produce mone articles for cxport, and import less-and the best permanent remedy will be found in the fostering cate bestowed to the agricultural and mechanical branches of indu*try.
It is a fact that cannot be denich, that the cultivators of the soil are much to blame for the low stading winch ducir profeesion bears
when compared with others of a less inviting and independent character. They have neglected the proper ellucation of their sons and daughters, to fit them for making respectable and intelligent neighbours and useful citizens. They have seldom taught them to honour and respect their calling, by placing facilities within their reach to enable them to think closely, to speak cautiously, and to act efficiently. What did we hear somded in our ears, by a young student at law, within the last fortnight, when chiding a fellow student, who while conversing with us, made use of a vulgar, or hacknied phrase, which was rather out of the bounds of polite literature? Why it was this, "that he felt astonished that a student at law would thus murder the Queen's English; while at the same time he would consider such a breach of the rules of grammar quite pardonable were it made by a farmer."

One thing is certain, that the only plan which can be adopted, effectually to give a character to the agricultural interest of Canada, and cause men of other classes to respect it, is that the cultivators of the soil respect it theinselves, by practically and scientifically educating their sons in every branch of their respectable profession. And instead of educating the brightest and clearest headed, for the learned professions, as they are called, have such taught the mysteries of chemistry applied to agriculture.-the proper application of mineral substances to the various soils, and a thorough knowledge of their own language, so that they may have a common sense understanding of men and things, so that they may be capacitated to fill, in a creditable manner, the office of magistrate, district councillor, member of a board of agriculture, or a member of the Provincial Parliament. The education requisite for all this requires no great investment either of money or time ; it merely requires that the student be taught the rudiments of his own language, at one of the common district, or grammar schools, and during leisure hours, such as rainy days, and evenings, that he devote such periods of his tine in consulting scientific and useful works, so that his mind may be stored with useful ileas, to reflect upon while following the plough, gaihering the harvest, or carrying his father's grain to market. Correct ileas do not enter our lmain by mere instinct, as all who have thought on the subject must know that we obtain them ly perception, comparison, conversation with correct men, reading and consulting good authors, and by a thousand other channels umecessary to mention. The most casily to be oftained source of acpuiring correct ideas, for the famer, his sons, and his daughters, as well as his household domestics, is from the many useful publications which may had at a very trifing cost, compared with the price which similiar works cost half a century ago. An annual tax of ten dollars per annum, would not be lell by any farmer, for so noble and uscful a purpose as placing in the hands of his chilleren information which would elevate them to a respectable pasition in Conala. Hears urver pass so swiftly away, as when a jounz
man of good taste is enjoying social conversation with an intelligent old man; he there learns lessons that will be fresh in his memory, through the various walks of life, and which will be a source of much profit through the rarious vicissitudes of the journey of life. And we would ask the heals of families, and our young readers, how can you expect that the next gencration will be more intelligent, or more wise, than the present, unless you adopt the necessary means to make them so? It appears to us that we owe a duty to our country which will require a life time to perform. This spirit should be more prevalent among the present generation. The young men of the present day have forgotten what their hoary-headed guardians suffered to make this country, suitable for the habitation of a christian community. We are disposed to complain of the times; now the times were never better in the world than at present. The fault lies with us, we have become proud, fond of making false appearances, or, in other worls, desire to shine in borrowed plumes, rather than be content with living within me:us. We are aware that we are touching upon a very tender chord, and one which but few will be disposed to entertain the same opinion with us, but before we close this branch of the subject, we would mercly call the attention of our readers to one fact, which will elucidate most clearly the position that we advanced above, viz. that the present appearances of the Canadian population, when the productions of the soil and the workshop are compared with their condition sisteenyears ago, bear no analogy with the productions at that period. We leave our readers to draw the inference.
The cvils resulting from the present plan of orer-traling, and non-producing, must be redressed, or the whole country will shortly be in a state of bankruptcy, which will reauire a serics of years to redeem, supposing that $1^{1 r o p e r}$ means be resorted to, to effect that olject. We may borrow as many millions of money as the capitalists of Great Britain choose to lend us, and the remedy will only be temporary. The bullion will all find its way lack again to the mother country, to pay for imperted grenta, and leare behind ouly a representative in the shape of rags.
The crisis which is fast appreaching is of no orlinary character; and it will repure something more than ordinary mems to plate the comitry in the same healthy state that it enjoyed a few, years since. The Americans have alopted the 1 ight course to relieve their country from the evils which they have so long complained of; and our realers need not be surprised if they hear it sounded in their ears in less than five years, that the exports of the United Sitates exceeds the imports, to the gross amount of some eight or ten millions of dollas annually. The sclieme which that country lately resorted to, is one which die European nations have followed with aumimhlis success, and one which we as a colony must atgraft on sull own syan of internal policy, or che le dommed to be Hought unworithy of
a name among the civilized portions of the earth.
To talk about free trade on the continent of America is worse than nonsense. The Americans are a people who will adrance step by step in laying on restrictive duties on foreigu agricultural produce and manufactures, untif they approach to a direct prohibition. Their tiversitied soil, climate, and the genius of their people, will point out to them the adrantages which would result from such a sound policy.
The sulject of a Canailian Tariff will shortiy he brought lefore the l'rovincial Parliament. We know not the course that government will pursue, but one thing we know, that the agriculturalists of this province entertain but one of opinion on the sulject of protection to the productions of the soil. If we be spared, the subject of demanding justice to the cause of our country's agriculture will be discussed in the September number-a number of which will be sent to each member of the Legislature for their consideration. We shall never be satisfled with half measures (the article of American wheat an exception) on this question. Although we are of opinion that a high scale of duties levied on foreign agricultural produce, would be of incalculable bencfit to all classes of Her Majesty's sulbjects in this province, yet we would not wish to he misunderstood by, any that we suppose that an increased production of breadstuffs would be created by the auloption of such a measure, unless the people bestir themselves and make use of the means which are abundantly diffiused throughout almost every portion of the province. They must unshackle themselves from their mean and narrow-minded wiews, and unite torecther in harmony and good will, for the welfare of their fellow man. The impression las gone abrex that the province of Conada is an exclusively agricultural conntry. Those who have fostered and promulgated that opinion, should cndeavour, as far as possible, to use their influcnce in estahlishing a character for the agriculture of the country, and unless they do so, they are unworthy of being placed at the heal of affiars.
As a conductor of an olscure sheet, which is scarcely noticed hy some of the literary sages. of the combtry, we need scarcely hope to accomplish much towarls hringing about changes which would affect the social and politicak relations which man holds to his fellow man; nowithsianding our ohscurity, and the smallness of our pretensions, we feel disposel to aid in the work of placing this, our native country, in a position werthy of heing called the brightest ajpendage of the British crown.

The means to be allopted to accomplish the desired good are multifarions; but the whole arc easily accessible. A few of them areProfection to agriculture in all its depatments, equivalent to the prolection enacied by our neighbours on foreign produce entering their markets,--encourngement to such manufactures as may be successfully worked in the province, -the repeal of duties on all raw materials ontering the porta, fuch as cannot be profitably
promitood withom the honits of the conmery, -
 every diverict of the pantmer, se well at a

 titic sabjects that would lent be wate the alanling of the protincong clatwo if the rom-munts,--the dis . . ling warvelee oh corsthing that is evclusisely selfich, by mating in oun alrengeth to follify our harhly fon oured prow ince with a spurit of gennl will amd botherly lose
 cultural Suxintios on vich exadted amd benevo lent primeiples that a manite thenelit would ise widely dillimed thrumphom their whole fied ot operations, that Wonh at once rombine the neducated and sellioh that the owhonithe object of their evertions wan for no othe $r$ lenedit than the genemal gout of manhind. 'There are only a lew of the many mosement which we would reconmeme for the consaderathes as those who guide the helm of tate alfurs. We hase nearly eshausted the soce whoh we allohted for these few hathly arrouged remarhs: hut before we draw the sulyedt to a close, we cannot refrain fron embatemer the fasourable opportunity, which here presents itwli, of giving a few hinte to the disatultural Sonictiethroughon the brovince. An prainwobly an has been much that has heren dome by the associations for the gromotion of a Lefled watem of agric alture, the Inenditial results deriathe from their exertions have leen limited, in comparison to the great amutht of bene hit that might have accrued o the country, hat the? sdopted the plan which their brethren of the sister province of Nora Scotia have latterly pureued with so much zeal and landable enterprize. A better system of arricukure wall make alow progress inded in a comery where there are no other nouces of concounardin ims. provements, but mercly the divaling a is paltry premiuns among a few of the ladim. or hest farmers What we want are jurls, communirated throush the medium of an ably conducted plese The manner in which there facts may be obtained and dirscumated horcury the length and breadth ot the land, wall be a matter for us to jaiat out. Jut, ledere we proced, we would wivere that the pulte boust have their minds dovened of modtat? promedices, and they west allow the gemat rays of truth and smad philouphy io sosn pretominate in their breasols.

We say the press must be brought moto requeition. bach hamer must tithe lis onre. twr, or more agricultuat and wember e gumatgo that instcul of one small and compuaturl.
 a mere cristence, we may re at hav a dozat reapectally conduchand anditully eralhished

 of the cularatess of the -ont. It a correct and


 proluce would le created, sulficent to gise at


My ing ler all the neconary impontations which we require. 'This puint olece qained, will place our moble comory in an enviable jerotion, both In an arrocultural and commercial peint of vicw.
'The athire to Aericulural Sondidia may he aen in another colum under ats appropriate headics.

## HUME: DISTMCY CATTLE SHOW AND FAll.

The Eshibition of tho Purent Agricultural Suciety of sho Hume District, will take place or the 1 tith of October, on tho grounds ullotied for that purpose, near the now Quol and Court Houso. as will be aeen by adrertisement on the last page. lie very liferal premiums to be awariled for the articlo of IIops, will, no doubt, have the effect of drawing tho attention of the farmors of the Oixtrict to the cultivation of that plant. We trust that the encuuragement thus given for this one particular ohjuct will increase at each Autumn exhatinon in quadruple ratio during the next two years; and we will venture to say that tho Hume Districe alono would bo able to supply every biewers in the Provitice with that article, witbin very iew jears, if the atepa wo propose be adopted.
A Ilume District farmer of our acquaintarce is amasvitis a fortuso from the proths of his hopsrounds; and he informed 3 , when last in Coronto, that there way no branch of fatning which brought in such beavy returns for the , apital and cime invested in the business, as that of the cultivation of Hops.
Many might ubject to engage in the cultivation it the plant from their want of experience in its culture ; to those we wuald say, subscribe for "'he British imerican Cullivator, and thero they will lind the desited itufurmation at a mere nominal cost.
Wo have given the suliject of cultivating the Hop flant much convidertion and arduous inves"gation, and we conceire ouracives to be ao far reviter of tho subject as to by ablo to erter into he menutia of tis cultisation; und, after preparsfon, will prove to be of much use to those who may be" prepared to engrge ut the businesk. A erieg ef articles will bo arranged on tho subject, in time to make their apperance to the pubtic it the three lavt numbers of the present volune.
The Hume D.atrict Agricultural Suciely deacrves the heally thaths of every apirited farmer in the Dintuct, tor tho buld afionts they havo nade in Ins matter.
Thu S.r.fember number will be before the public at leaut ten days befure the day of the above whinhtion, in which number we shall take further autice of the procecdinge of the Suciety in question.

## HOUSES OF CNBURNT BRICK.

We wero lately invited by Jesse Krtchum, Esq ,f ahis city, to call and examine a now siglo of nud houses which ho has in course of building. n tbort divatace north of this ciry. The tricks are mane of tho size and style reconmended in a late kumber of tbe Cullieator, and buite in the wall the andih of ane brick. The outer sides of the wall is arcused with a cu urse of burnt brick, which gives it the apyearance of a berrit brick building. Thin is uniqueationably one of tho cheapest and best cs lo of huses for the general perposes of farm mildings, and one which will udoubedly bo warm and durable.

## Lide

The appliation of lime to the soil, as a atis mulient forkl to the plant, and as a corrective, of neutraliser to the jernicious acils, which are more or lese frequent in all woils, is a branch of farming almout unknown in this ptovince.
There are but lew prortions of Canadn, which we have not trasered, and we have no ecruple in arestung, that in no country in the world, would the application of lime to the soil have a more direct and benefical inlluence, than on the majority of the cultivated lands of this colntry:
But few in the province could be found who would believe that the return made from liming fround for ctops wouh pay the expense,- The e priment has never been fully fried, and why should any' one raise objections to the carrying out of a acheme with which they are totally ignomat? In all of the improvements which we intend to recommend to fle notiee of the Canadian farmer, their practicability and profit; shall be features of the syitem which we rill endeavour to be master of,-and only such as are calculated to hamdsomely repay the producer, shall reccive our countenance. We conceive the amount of the profita of a business, to lee the grand propeller to stimnlate mankind to action; and unless a fair amount of profit bo the result of the improvements which we recommend, only few wall follow our suggestions. To convince the farmer that we are sincere in our advocacy of ther best interests, we would sumpett the propricty of each and all, testing the plans we lay down, on a emall scalo at lirst,-and if any require information on any branch of their business, we shall at all times feel pleasure in answering any inquiries which would tend to benefit the public.
Lime may be had in large quantities in this city, for the low price of one shilling and three jence per barrel,-men barrels per acre would be found to have a wondersul effect on the growth and early maturity of the $p^{\prime}$ ant, which is so trilling a cost that no one could olject to trying it on a small scale. Where limestone ciun be haul at a mere nominal cost, and fuel for the mere chojpine and drawing, the cost would not eaceed ten pence per barrel, andeven less than that sum in cases where inuch of the work of choppung wool, drawing stone, and buruing, may be pertormed by the famer, his nons, or his furm labourer. The subject is worthy of experiment, and we inst that itsimportance will not be lost sight of by the farmers generally:
The quantity of lime to be applied to tho land must, of course, be proportioned to the quality of the lime, as well as to the nature and combliton of the sonl; the operation must be in a great degree govence by the expense and the probalinity of the mencdiate and future profise. A less quantivy than 20 bushcls per acre would scarcely be perceptible, and in many instances, 200 lu-hels per acre would be found to remunrate the expense, and leave it handsome profit over and alove. The enly lands in Condas that would require that quam-
tity, are such as do not at present produce sufficient to mahe it worth the attention of an enterpriving medligent man to cultiate them, supposing the lands coet him nothug. A tract of country in the Ningara district, in the neighbourhood of Smithsville, is of the ahove duscription, and although limestone is abumlant, and wood may be hal for chopping and draw. ing, still no regard is paid to the renovating of the soil, by means with which an Ahl-wins: Provinesice has so bountifully blesed them. The occupiers of alout 20 milesiquare of country in the above section, instead of lieng, are merely staying on their land, and a miserable say they make of it. The oldest settlers informed us that, when their land wis new they used to raise 40 bushels of wheat per acre, and now they cannot safely calculate upon 10 bushels. We explaned to them how they might grow 40 bushelsas formerly, and if they would subscribe to our magazine, we would give them monthly instructions about their respectablecalling, which would enable them to shine in their sphere, and be a credit to their country, and an honour to their profescion. It is almost needless to add that we were unsucceasful; and although we travelled on horse-back three days through the hard-pans of Smithville, still we had not the good luck of obtanming a single subscriber for our paper. The land thas become so stiff and hard, that it can orly be ploughed when in a wet state. If the nevi generation is not more enterpusing than the present, the whole of that part of the district will be unfit for the residence of man. The ame description of soil would be considered in England and Scoland, to be the best for the growth of wheat and beans.
Deep autumn and spring ploughing-therough draining with a trench plough-the application of the manure from the barn yard before it had paised through the stage of fermentation, and the application of about 100 or even 200 bushels of sheli or unslacked lime per acre, applied in the month of June, so that it may be thoroughly incorporated with the soil during the subsequent operations of the summer fallowing process, are a part of the sys. tem that we would recommend to the notice of that class of farmers who have a heary tenacious clay, that they consider a! present unworthy of their attention. Ten acres thus manared would pay better thas 40 acres cultivated after the style mostly practised throughout the country.
There is, perhaps, no country where lime has been used to such an entent and with euch effect, as in the improved parts of scolland, Where it is often carried to the distance of thirty miles, after having been imported from distant points of the cosit, yet, in most casce, the profits have borne out the charges and left a living profit to the farner, We shall recurr to this rubject again, and gire more explicit directions relative to the management upon different soils

## sibertan spmigg wheat.

A farmer in the Township of King, lately pre. anted us with a vary supetior sample of this nyring
wheat, which exceeded anything of tho kind that has coma under our nutise. Indned, the anmple was so good, and had such a close resembiance te a vniety of winter what, with wheh we wen well acquainted, that we determined upon examining it whilo in the straw; wo have oubsequerully done so, and feel nu scruples in bearing testimony to the fact, that the small quantity wo praviously examined was not mado up from selected heads, or choico grains, but was a fair average of a mack containing between cighty and an hundred buchels. This may be known from other sorts by its haviag a bright red beatdlese chaff-line, silky struw, and a round transparent berry. The average gield is computed to bo upwards of thity bushels per acre.

## DANTZIC WHEAT.

A number of farmers in the negbourhood of thi, city have been in the habit of sowing more or le:s of this variety of whear, during the last fow gears We have conversed with some who highly approve of lt , and othere who have their doubts about its adaptation to the Canadian winter. We have carefully examined two felds, one of lest, and the ather of the fresent year's growth, of the above variety of wheat, and are of opinion that it is worth; of the notico of the Canadian wheat growers One gentleman of our ecquaintance has harvested the present scason sixteen acres, from which he anticipates upwards of five hundred bushels, -he has already delivered one hundred bushels of the present year's crep, which was admitted 'y three of the mont extensive millers of tho Home District to be one of the brightest and best samples ever exhibited in the Toronto market. If any of our friemls desire further information relative to thio variety, we would feel a pleazurein enswering their cnquiries.

## RAYE.

Wo lately saw a beastiful field of rape, which ourpassed arything of the kind that we have seen in this country. If mution be a remunerating price the ensuing winter, the crop in question wil. pay its owner at least $£ 4$. per acre; and the ground will be in as fit a state for spring wheat, with a single autumn ploughing, as though it had andergune a thorough summer fallowing.

## AUGUST, 1843.

The propitious weather which has provaited for the last aix weeks has enabled the Farmer to secure the golden crops in excellent condtion. Next only in impertanco wo the seed unte and summer growth is the weather in harvest, and never wero the hopes of the husbandman more fully crowned than they have been iths seasous. Theie is alsoan evident rendency to a rise in price, whicia is much wanted, from the low rates which have been'realized for the last two years. To secure a remuncrating price is universally desired by iarmers. This price, howerer, depends much ou the ideas and situation of the producer humsel. Ono person who excreises no skill nor care in the management of his farm, and who is carcless in his expenditure ; who, in the one hand, receivess short crop, and on the other, has too large an outlay, will never bave a remumerating price Another, who takes every moans of acquring it. formation of tho best modes of cultivation, and who diligently and prompely carrios this infarme. tioa into practice, will, at all times, receivo the largeat amoint of crop which his land can prodice, and if ho watches the utier sidu of the ac-
count, by dew cars and frugality in hia outhy, he will almost invarinlily have a sveure remuneration, and when any considerabso advance happens to tako place, he will fia' a great addition made to his capital. Whether such a reault will occur this year, it is diticulc to say ; but Canada is now placed, by the rucent act of the Britiah Parliament, alle wing graia to bo imported theroupon a nominal duty, in a bettet situation for taking the benefit of any lluctuation in the market of tho mother country, than she has litherto been.
The farmer is now buxy ploughing, and sowing his Autumn wheat. The month of September is at hand, and we have a fow hints to give to our frienda. As suon as the wheat is all sown, and the seed covered, the whule of the ground which it occupiss should be completely water furrowed with the plough, and the lea.ing drains and intervals should bo opened, and cleaved out with tho spade. The time spent in this work will produce one hurdred per cent on the outlay at least. Ground bally prepared, and that which lies too low fur dusum wheat, should be ploughed as soon as possible, and late in the Ausumn laid up into convenicnt ridges for spring wheat.
We advise Farmers to save every bundlo of atraw. It may be used in tho winter with gratit advantage in tho sheep yard for bedding. Horsan, cows, calves, and swiae, should bivo comfuristie beds of atraw. Weli bundle of Sflibs. will to worth, to a providom farmer, one shilling, befuso the close of the winter, especially when it happeas to be as severe as the last was.
The second crop of clover hay may with muek profit be mixed when abost half cured with brighe wheut, barley, or cat straw.
Wo recommend every farmer not alroady in possession of a guod fanning mill, to got one without delay. Wo beliese there are but faw in use in the country, which come under that descrip. tion. The most perfect piece of machinary of this description can bo had at Mr. Watson's, near Tnorni,ill, Township of Vaughan, fur tho low pice of five gounds cach.
The young man who invented the pattern hat conferced real beachit on the country, and ought to be encouraged. If wheat be ever su foul, this mill will clean it in tho most perfect manner. The machinery is so constructed, that after the graia has passed through the sieves to the shaking screen, the light wheat and choses is all separated from tho whest. To those who may nut have an opfortunity of examiang for themselves, we would is happy to answer say communications which whey misy address to us rapecting it.

## TO DELINQUENTS.

We havo to regurs? that those subscribers who have not yet paid their subsciptiuns for the current year, will do $s$ s immediawly. It is very dis. agsceable for us to maker such appeds, but we carnot avoid it. We write our Agents to no effect for remittances, the subscribers not having put thera in funds. We trust this rotice will be immediately attended to.

## THE JULE NCMBER.

We linve to apologise to our readera for the numerous tylי口grnpical errors which occurned in our lint number. Wo wero nbent from town on urzont buiness, when the paper weat 10 press, and deeply regrit the occurrence.

## From the Aibany Ciuliacator

 THE Hoval, AGRICDRIClial sulfry of h.an. LAND.
Dr. 'hayratk stmed thas thu obpect of tho lee. pure was to poant out in what manmer the primesplod of phyainingy, especially thuse whela hatbeca lately developed wy liebig, might bs appoud tu the grazing and fattening of catelo. In the time placo, the aliould endeavour to give a chear cencerphow of what the prinempes of paystolugy wore, that were involved an the feeding and growth of ammals.
Vegutables, in their growth, derive all there food from tho minural klugdom-principally from she air-which had been catted a gasoous manorar. whist anmonts derived thour principal nuatacent directly trom the vegetabie klugiluau. Vibetal ive effecterl many cbomical changes in the toud thes took up-animals, few.
Gluten and albumen aro the nutrient primeripes of planta, and in chemical compuation they sro identical with tho albumen of the white of are " $\$$ : of the muscles ef an ax, or tho blond of atheng By identisy was not meant uimilarity, hat pue tive. ly the ssmo thing. The albumen of blood of mascle, and of an rgg, differ in plysical but not in cheunical charucters The composition ot these sidb. stances, as analysed by vartuas chemists from the atamal and rogetablu kingdom, as zeen in the followiog table, prove sheir identity:-

| chicten. Banaingate. | Casstr. scherer | ditbumen. sures. | Ux-blood. t'inglalf. | -ghes $\text { a) } 13 \text { ir }$ |
| :---: | :---: | :---: | :---: | :---: |
| Cartmo...... 312 | 511 | 3.5 | 513 | 6112 |
| Hyurogen... 2.5 | 7.1 | 7. | 75 | 789 |
| Nitrogen.... 14 | 158 | 15.7 | 1372 | 13.71 |
| Ozygen......2i.t | 232 | 22.1 | 2335 | 913 |

Theso annigses do not diffur more than the anwhese of die seme substance. Planta, in fuct, cortain withen them tho fegh of suimals, and all tho nnimal orgunization does in nutrithem, io to pur tbis fosh in the right place. But antimale take up with thoir food other constituents of plarits which conttain no nitrogeu; wuch as starch, sugar, gunt, \&ic Theac ato not nutritive principlea; they do not asaist in making tho fleoh of animals; uad waen ammals aro fed upon these alone, thoy dic. But ani maly gosseds a certain degree of heat, und their bodips have generslly a temperature above das of tho atmonplect-abou: 100 -egrece of Finderadeit's thormotzeter.
Whence then comes this heat? From theburning of the augar, starch, sum, Sic. The uir that unimals expire is carbonic acid, the vers gas that is prosuced by the burning of wood or charecal in a fire. Charcual is cuibon, and animals tuke ia duily a lurge quantity of carbou in their food. It is tho burning or combustion of this substance in the ibody, that groduces aninal heat. In hot countries, amimals on this yccuunt, toko less carbon. Tho food of the Exst Iodian contains only about 12 jer cent. of catbon, whilst that of tho Greeslander contains 70 per cent. The depraved taste of the Greenlayder, who drinks arain-oil and eate tallow candies by tho dozen, might be pitied or wondered at; bat it is neceanaly to his healliby ex isteuce. Ano leer reason for ammuls acquirmo carboniceoun food itt cold climates is, that the ar is more condensed, and tha same mensure contain ed a greater quatrity of oxyfrn; that gay being tho ngent which, by uaitimy with the carbon ard furming carburic acid, gato wat the heat. Sircugs oxercieo aiso de matods a large sulphy wi cat Luta-
 tag the had breathing thes produced. Oxyger. when once when into tho sisum, newre ess a, ees
 thn bedy unless a fresh suphly of Am: wat "en b' ven. Clothes, by heoping in animul hrat, ruac., leres corbunaceuus foul meceddaty in urdre to her, the body up to its preper temperatue. The follun.

 respirution:-
Elcacnts of Nutratzon-Vegotable Farme, Shuman,
Cintem,
Animal Flembic.
Elements of Respiration-Fat,
stirich,

## Sugar, <br> Wins, <br> Berrits,

If it wero not for somo puwer or furco withm the mimal inbuc, it nould soun becotle a grey to the hemical netion of oxygen. The force that witho taude itis uction is ritalitg-a pricicipal iwinpero. loat of tho minil, and wheta conetanly oppusest the destuctive chennea! lava to wheh the body is -ubject. Diseaso ad the tumporary uscendancy of the chemical over the vital farce. $A$ deul body uxposed to the action of oxygen is suon resulved witu its primuive elemenis-carbon, hydrogen, nad altrogen, in tho form of carbome acid, ammonin, and water; and these uro elemente from which pitants agnan prepare masierials for tha linang budy Itheso remarks wall explain many facts hnuwa to "wo agtacuiluciat, and will assist him in msuring nutu cersalals matay of tho objecte of his labours. It te very well known that catto do not fasten so null in culd weather as in hot. The reason in this: 1 he fat to a bighly carbonised substance, formed by the animal from ins cartonnecous food. In cold wenther, the carbon in this food 13 consumed 1 th kerping up the heat of the andmal, whith is at that season mors readily carrled ond. Thas is also illastrated in an exporiment mado by Lord Ducte, at Whatwicld. Uno hundred sheop woro placed in a shed, and ate 20 dos. of Swedes each, per day; another hundied wore phaced in tho open urr, aud ate $\mathbf{2 5}$ bsa. Suedes per day ; yot at tho end of a certain pertod tho sheep which were protected, although they had a fiftit legy of tood, woighed three pounds a head moro than the unprotected sheep; The reason of this is ubvous: the exposed sheop had their carbonaccous food consursed in keeping up their animal heat. Warmit is thus sceŕ to bo au uquivalent for food. This is also illustrated by thu flact that two havos of bees du not consumo so much honey when together as when separate, on account of tho warmah being greater: and they have loss occasion for consuming the thunes which is their fuel. Caste, for tho same reason, thrive much beter when hege warm, thein when exposed : $u$ : eve cold.
Thio cause of animuls geting fat is, that they tako in more carbonaccous food than they require for producing athmal heat; the cundequence is, that it is ceposited ita the collalar dissuo an the form of fat. Fat is an unantural productiun, and its accumulation is nut necessary for the healith of tho berly When stored up, however, it will serve the boty for kecping up its animal hear, and by this meanh its lifo all it is all consumed. An instance is recurded of a fat pig having been kept without food for 160 days, sustaining lifo by its own fas.

Anotherelearent necessary to be saken inta.consaderation in the fattening of aormals, is mution or excrcie. Fivery action of tho bods-nay, every thougbs of sta mind, is atteoded with chemient ehange; a portion of the doposted tissues are thus bong constantly consumed. It is,on thas account that when ammals aro fattened, thoy ure kept quiet and sull. Tto cruel practice of fattening geese by nasing their feet to tho floor, and of cooking prgeoris and chickons betore they aro lifled, arises irum a knowledge of tha fact. When prizes wera given by our agracultural societies for fat, and not for symmetry, animuls were stictly prevented from usking any exercise niall. Mr. Ghilders fund that stoeop which were kupt warm and quet, futened much laster than thuso that were allowed tho opon nor atad action. It is very difficult to fatten aheep and usua in July, on account of the tlies, which, stingiat them. kerep them in a state of constant motion. 1'he Corusth miners, on account of the taborons naluse of their occupations, cuesume more loud tban laburess wath inghter woik. During the late nozs in Lancalaire, the pour themployed operatres tound out that exerciso and cold made them hunaty; accordingly uey kept quact in bed una haped upon them all she cavering thes could had.
 ugieat deal of exercise, becabse they will matst onl cating and drushinir lughly catbentzed foods; and the heat of the chenate not altowing the eacaje ot mucb hess from thu borly, they aru oblaged to tahe in by enaroike, the oxsken of the arr, in erdor to destruy the caibon which would otberwiseuceumulate in the systen, nad produce inver dinenso. In the Srutch prinums, the quanaty of icoud givent to

whichtho $\mu$ risutuers am ongaged-tho h irriegt workots having the most foud. The reason of the flesh of the atng beconing purrid ahotily afte. ita doath, arises from tho quannty of oxygen whicit it inkes into its syotem during the hard breathing of tho clase. I hanted hare, For tho samo reason is as terider as one that hus been kept for a fortaight af cer buing shot. Tliu reason is tho anmo. In both users, the uction of the uxygen on the flesh produ. cesnpproaching decomposition-in the one, quicklyi in the other slowly. Bacon, on the samo principlo, way, at une time, rondured more delicato by whip. pug the pig to death. E.pileptic fitw producal great emaciation, on account of tho violent action to which they exposed tho body.

Lord Ducie has performed somo oxperimonts mighly altustranve of thu turegoing general primciples, and which alan indicated what might bo oxpected from the ap aphication to the prachoo of grazing:
lat expariment. Fivo sheep wero fed in the open art, becreon tho 2 lit of Nuv. and tho lat of Dec. , thay cuhaumed gotbe. of food per diay, the temperoture of the atmosphero boing about 44 deg. At the ond of this timo they weighed 2 lbs. leso than when first exposed.
2d experimont. Fivo sheep wro placed under a olved and allowed to run about, at a temperaturo of 10 deg. ; they consumed at first 82 lbs. of fuad ner day, then 70 lbs ; and at the cad of the time had Increased in weight 23 tbs .

3rd experiment. Five sheep were placed in the same shed as in tho last uxperiment, but not allowed to take uny exerciso; they ato at first 64 lbs. of food per day, then 58 lbs ; and increased in weight 30 lbs.
4ih experiment. Fivo sheop were kept quiot and covered, and in tho dark; they ate 35 lbs. a day, and woro incroased 8 lbs .
These experimente provo satiofactorily the inda. ence of warmith and motion ou tho futtoning of catile.

Dr. Ilayfarr then stated that he should proceod to examine the different linds of food for calte.-The food of cattle is of two kitide-szoriked and unazutistel-with or without nitrogon. The following table gives tho analyais of various kinds of fuod of catilo in their freshatato:

| I.ls | W. Water. Or | Organic matters | Ashes. |
| :---: | :---: | :---: | :---: |
|  | Peas 16 | 801.2 | 31.2 |
| " | Beans, 14 | 801.2 | 31.2 |
| " | Lentiles, 16 | 81 |  |
| " | Oats, 18 | - 70 | 3 |
| " | Ontmeal, 5 | 89 | 2 |
| " | Barluymeal 511.3 | 381.2 | 9 |
| " | Hay, 16 | 761.2 | 71.8 |
|  | Wheat straw, 18 | 79 | 8 |
| ${ }^{\prime}$ | Turnips, 89 | 10 | 2 |
| " | Swedes, 85 | 14 |  |
| " | Mangel watizal89 | 10 | 2 |
|  | Whate carrot, 87 | 12 | 1 |
| " | Putatnes, 72 | 27 | 1 |
| ${ }^{\prime}$ | Red beet, 89 | 10 | 71.4 |
|  | Lanseed cake, 17 | 751.9 | 71.2 |
| " | Bran, 141-2 | 801.2 | 5 |

A glance at this tablo would onablo a person.to ostimate tho value of the articles as diet. Thus overy 100 tons of turnips contain 90 tons of water, But the value of tho inorganie maters which shese foods concained, dificred. Thes Mr Rham atates that 100 lbs . of hay aro equal to 335 libe. of mungol wastzel. It would be seen by the tablo, that that yunaty of hay ecntained 76 lby of orgunic mather, whilst the mungul wurtsol contaided only 34 lbs.
Uno rosult of feeding aminalz on foody contarav ing muth water ts that the water abstracts from tho atamal a targe quanmy of b -at, for the purpose branging it up to the temperature of ! ea body, and in thes way n loss of material took placu. Tho mode of Sa Humphrey Davy, of ascertaining the numave ph uperties of plants, by mechanically separatung tuo fiuten, is uasuscepable of ancuracythe inure accurate way is to ascertain the guamily
of aitrogen, which being multiplied by 6. 2 , will give tire quastity of allumen cumuined an nny givon ypecimen of frod. The fulluwing is e eablo of the (quivalcat value of several kinds of foud. winh aference to the formation of miusto and fit ; the afbumen icdicatiog the wtusclc-forming principlon
tho unsentived mattere indicativg the fist-forming principin:

| L.68. |  | Allixmex. | ['unsolision mathers. |
| :---: | :---: | :---: | :---: |
| 100 | Flesh, | 25 | 0 |
| $\bullet$ | Blood, | 29 | 0 |
| ${ }^{4}$ | Pata, | 20 | 311.2 |
| ${ }^{\prime}$ | Beare, | 31 | 52 |
| $"$ | L-ntiles, | 33 | 13 |
| " | Potatoce, | 2 | 2412 |
| ${ }^{\prime \prime}$ | Oste, | 1012 | 68 |
| ${ }^{\prime \prime}$ | liarleg meal | 114 | ci3 |
| ${ }^{11}$ | Hay, | 8 | 681.2 |
| 11 | Turnipa, | 1 | 9 |
| ${ }^{\prime \prime}$ | Carrois, | 9 | 10 |
| 4 | Ird beet, | 11.2 | J 1.2 |

Tho analyses in this tablo am partly Dr. Ilajfair's and partly liousslugnitin, The nilumen series indicate the flesh-formang principles, and the unazotsed acrice indicate the fat-furming princi ples. By comparigg this tuble with the former, it will at onco be seen whick foods contain not only the grostest quantity of organic mater, but what proportion of this organic matter is nutritivi, and which is fatteniog; of that whici furnishes leving clasue and that whach furmahes combuatiblo matestal. In cold weather, thow fouds should bo given which contain the larger proportion of unazatised mattore in order to keep up the heat of tho buly. Thus it will ba seen that putatoes are good for fatconing, but bad for fushening. Linueed cake contsint a great deal of fattening matter, and tut latle nutritive matter; hence, barloy meal, which cuncalas a good deal of albumen, may bo advantageously mixed with if. Dumas, a French chemist atates that the principles of fas exist in veretables, as in hay and maize, and that, like albumen, it is deposited in the tistues unchanged. But Liebis regards fat as transformed sugar, starch, fum, sie., which has uadargone a chango in the procesd of digest. n. This is why Linsecd cako is fateniag; ell che oi! is squocred out of tho aeed, but the seed cost, whish contains a great deal of gum, and tho atarch of tho seed is left, and theso aro fatwaing orlaciples. The oxygea intriduced by respiration into the lunge, is deatinad for the deatruction of carbonaceeus matter, but thero is a provision mado for taking it into the stomach with tho food, and this is done by the saliva. Tho salive it always full of bubbles, which are alr bubbles, which carrs the oxygen of the atmosphere into the stomach whith tha fuad. Tho object of rumination in and male is the more pelfect mixing of the food with the oxygen of the air. Thit is why chafis should mot be cut so short for ruminating, as for ton-ruminating animala, as the shorter the chaff is, the less it is ruminated, and tho loss oxygen it gets. Chaft is cut one loch for the ox, half an inch for the sheog, and a quarter for the borso. Somo might in consequence of this, supposa that cutting food Ia then of litue use; but when it fs considered that rumination is a strong exercire, or that an animal wlil mot be eating more foed that fo ruminating, it will easily beseen how cutting facilitatos fattening. In onder that food may be nroperly ruminatod, it sequires a cortain amount of consistency and bulk: bodeo all watery foods, os turnipz ard mangol wurizel, should be mixed with straw. Tho opinion ia very cortect, that an animal "cannot chew its food without straw." An important isorganic constituent of food is sait; it is a chloride ufsodium While the chlorine gocs to form the gastric julin, which is so important an ngent in disestion, the sods gose to form tho bilo, which is a compounn of acoda. Tho bule is, in face, a secondary combination, by which the carbunaceous matter is broughe in contact with oxygen, in order tubo burnt. It is thues L isi common sals bucomes so important and acceasary an article of det. In tho series of changes by which the oxygen of die an is brought in coptact with tho carbonaceous matters iu the body, iron playa animportant part, and is henee one of fat aucessary ingredients of animal food.There are two oxides of iron-tho peroxido and the protoxida; the firat containing a large quanuty of oxysen, tho second a smatler quantity; the first, on being introduced iato the lluod, gives up a 1 wre tion uris oxygen to tho carbonaceuva matcrial ot the bilo, carbonic acid and protoxide of iron being formed; theso zwo, unito, furming a carbnnnte of the pretoxide of iron, which oa being carried to the lungs, gives off its carbonic acid, and tho protoxide of iron absorbing the oxygen broughe into tho .usz* by wispiration, forms agrian peroxide, which ugain
sont inta shan circulation, nad ineming with entiou nacouts inatore of the lifo, unites wath therm, noul
 chengos. The amall quantity, ther, of inorfanic ingredients in the firul, perlorms vers imp ntant tenctions; and is hes absence of diem, animst would dir.

## 

 En.- The proerding articto wo ghodiy lay Intore our tenders, beliving thoy will thho much intereat In aceing the courna whach sciethfic men ate tak. ing, in the hoge of diging goud ervice to ngriculturo nud to man. The experiment whe aherp, which shows that quit t and warmatiare favouruble. is growth, and may bo in past a subatiote for foot, showe nothing ditrrent from the renult in which obuorvation las long sider ind miny a common far mer ; bu'the why-the reasen. has tom been knuwn lhis reason accordiag to Lin-bug, is, that in cold weather more of the carbon of tho food is required to keep up the animal heat; and also that when ix ezircise, moro of the cablion munt bo cunxumed, bernuse moro oxjgen la takin into tho aystem by the packer or dee per breathag: - thas rand conaumption would soon raito the ammal heat too bich, wero there not provision for letting it of though theskin and other ways. What is thus let uttis wauted, no far as relatis ts growth. From the experimont wo learn nothing but the reason of reaules nhich havo long been knawn.Tiae tables ia the above articlo give us valuablo information as far as is goos; and it gives hope of sumoding more. The viclo article, hunsouer, atops whers wo wish welence to lead us. We are told how many pounds of matter there aro in au hundred pounds of potatons, that will go to make muscle or desh an distiuguiabed from fat; also how many pounds that may go to mako jist. All this fa well. Wut there are other thinges the action of which is not told, wiz. the wator and the ashes -or rather the salts in tho ashes. Does the water in potatocs have unon adimela preciacly the samo effect as would bo psoduced by the ame quantits of pure water drank in teparately ?-and what ralto aro found in the ashes ot each kind of food-m what quantiry, and what is thelr alfect upon the animal that consumes tho food? Theso are quedtione not get nnesvored, but which must be answer. ed beforo chemistry dues all that wo ay'k at hor hando.
Taking the wate fron the atticles named Iathe eregoing tables, and calling the nemainder of equal valuo as food, pound par pound, the calculation, if wo have mado no mistake, would show results nearly as follows.
100 lb . of has equal in worth to potatoed Buthelz.
5

Now cstimate hay at 80 cts .100 lbs .,
Potatoes will be worth per bushol,
Turnips,
Beets,
Whitw carrots,"
Ruta bagas, "
Oats,
Barloy meal,"
Theso figures would mako hay the most econo mical food. Particularls, liswaver, hi,g will not be so valuablo compasalively, as it appears hereThis may bo owing in part to the fact hat oportion of tho hay passes throughanimals undigested, and on part, perbsps, to tho quantity und character of tw salts. The animal's stomach will uften do its work inuch less thoroughly than the chemist's erucible, and we should expect the chemist to find more nutriment in hay and vats than the anima can exact. Tho opinion of Dr. I'lagfair thas $C$ bashels of turnips may bo equal in valuo as food, to pounds of hay may bo near tho truth-but we should thinh tbat tho hay would be found worth a ititlo the most; wo would tako seven bushels. Uur tablo values then will bo-
100 lbs of hay eyual to
"hay egual to putatoes,
"
" urnips,
"
"

And tho
Whe hills and the vales ho calis his own,
The farmer's lifo is an easy 11 fo,
He inhales tho wholesoms air,
From the morning dows and the evening bremet, And a medicine findo for all disease-
An antldote sure is there.
Tha hing bring at 80 cts., wo shall have the followins;

| Potatoss | wroth | 32 | cts. pre but |
| :---: | :---: | :---: | :---: |
| 1 urnip: | $\because$ | 113 |  |
| 13.ents | " | 11! |  |
| White entrots | " | 134 | $\because$ |
| lluts bagne, | ${ }^{\circ}$ | 16 | " |

From this it will fillow, that nmong the roots (?) putators will be most profitablo in thnse mections of tha country where the crop le usually a enfonad good ono. Bat on many farma. tho 5 bushels of ruta bagas can vo producud at lags expense than the af of poentives. On many farms, also, the 6 buxhele of whitu carruts will cost eut moro than the et uf potatoes.

From tho tables in the article above, it will appuse that for fattoning, potatoes are beat; whilo or giving muscle and strength, they are the poor pst. Carrots and barley meal aro bast for working animale asnong the aubstances named.

Wo wish some competont chemiat would give ue the analy ais of Indian meal and of ruta bagas. We will venturo the prediction, fiom observation, that the ruta basa will be found beat of all tho roots for giving muscle-thet thoy aro best for working animale. But the analyais will not satisfy us untit wo tind what the adhes contain. The salts, probably, have much arcater action, in proportion to their quantity upon the animal system, than do the orgunized matters in the roots. Let chemiatry show us thetr constituents and operntion, and wo can tho better jujgo whether its toachings are supported by our experience.

## THE FARMCR'S LIFE.

## From the Olioe Branes.

The farmer's life is an anclent lifo
For Adam onea silled tho land;
Witon turned out of Eden and sent to coll,
He gathered his bread from the fruitful sull By labor of bis own hand.

The farmer's life is a tollsome life, It piasecs in work away;
He brasbes the dew from the early grass,
And never once heeds how the hours raty psan,
Till he finds the close of day.
The farmer's lifo is a noble lite,
He is lord of all tho land;
Ho roigns like a king on his rural throne. Whore he lissues his command.

The farmer's lifo is an easy life, He lives by the fertile toil:
When he casta his oye o'er his wide-gpread fold
Ho knows very well it will always yic!-
Returas for his constant toil.
Tho farmer's lifa is a merry llfo,-1
Ni, merrier man than he,-
Wuht the lark he rises at early dawn,
And gues to his work in the fresh coul morn,
As merry as man can be.
The farmer's hife is a pleasant life,
Surrounded by fruits and flowers ;
In nch blouming meadows axd fields all day,
Ho pases, in labor, his ume away,
Or resse in his coul green bawers.
The former's lifo is a uscful lifo,
As pleasure to all it gives;
By him we are clothed, and by him wo'ro fed, And to him wo look for our daily bread-
For the public good he lives.
The farmer's life is a fav'rito life,
It is frue from noise and atrife;
And plenty and pleasure supply his cot,
There's nothing ha wishes he has not
Then give me the rarmer's hive. [s. r..

To the Biditer of the Brlluh American Cullizator.
Mif. Eniron,-It needs no congutor to tell that the iespe of thin proant movement in Fingland will be lime jriule in Corn, and the praite, that the Capalion forner will lave to face the marh its of the worhi wathont farout. Now, has l., anj thatiotw hations the atorexite tion of munopoly, and consegnent tree admission of grain from all parts of the worde into the ports of Britan? ds one of the clase, 1 do not apprehend he his. And this is the vew I take: the price of grain in Canala has alwajs hitherto been ruled by the price in the United States; for example, in 1835 and '3a wheat was down to 5s. sterling per bushel in Inntlanil, but the price during that period was onormously high in the United States and Canada, and all other sorts of agricultuml produce were in proportuon; in 1840 and ' 41 , Wheat averuged 8a. Ifd. sterling, per bushel in IFngland, but tho price was extremely low in the United States and Canada. The moment the price rises in the Umon, hicre is a corresponding rise in Canada, and mee verca. Now, how would the free almuesion of foneign agrseultural produce into the United Kingrlomanfect the prices of such prolluce in the Cinted States. and, consequently Canada? It would certamh not depress thein, but it at hat any mithence it would rather enhance then, bs uremur ont a new marhet fur the produce of the Western Srates, by way of Nicur Orleans, instead of forcing it by a northern route upon Lanada, as It has heen. At all events I cannot see that the repeal of the Enghish Corn Law is Ithely to make prices in Cinnada lower than the v have heen for a sertes of years past. But perhaps the expediencs of "protecting" the Canadian farmer may be urged, that is to silg - that such duties should be levied on the amportation of American produce into Canala as would increase prices to the farmers of thas provance, by rentricling the supply of such produce. Now, admitting the right of agriculturists to such protection, it could only tend to the nerease of price so long as Canada was unable to grow a
onficiency for her orrn population; but by and bye, when she became an exporing couniry, and had a lange surplus to disprose of, as stie would have un better opportamty of dong no than the United States would possess, slie would cither have to sell at their prices or deluge her orn marhets, and the consequence mould be no other than the leveling of her prices with those of the limted States. But as fre can only see Canada an exporting country in prospective, I will suppose that in the meantime the farmers of Canala s' ald demand the imposition of a protective duty on the importation of American produce, ili viler that firices may be increased liere-say by twenty per eent. How would the non-arricultural classes eadure this? they would say (and with gustice, foon, very well; you oblige us to pay twenty per cent more on all avemge of years for our foor than we would otherwse do, and wu cannot deny our right to a similar protectionif it is gond for you, it is good for as. is manofactures sprung up, the cloth-mater, the hardware and machine-maker, and evers other branch of industry periaining to a cisibised people, would demand a similar protection. Now the end of thas universal prosectunn would just he universal dearness, and what advantage sonld it be to the farmer that he shombatil dent in order to buy dear? If he now gives a bushel of wheat for a yard of cloth, when the wheat and cloth ans raupectively inerased in
 a state of hinge will her. f, 中 pre ciath the currenes at o.ice. Wiald I anit hh all duhas then" Nu, HA is hawife thy warter math ...

lutue fus lin are ner sern in my himen herome
theyshould press upon all classesandi interesis as well fitted out as any girl in the pariah. of the comminity as equally as possible. Jut In three years more, my thind daughter had an thie has unt levu the cas hithrion in Camala, -larh, and wedduge benirs concluded upon, allil we are yet frif from aurh a consummation., wife amun comes for the purse: but when ahe
 " refornes to the Tariff will shum, but just, tur a hat. a lookure glase, chma tea geer, Ece,
 hitt whall lithels recui to the subject in your purse. Then followed farm jeale ies and neat numine. War metioter.

## London, Canada West, dug 14, 1843.

## CAUSE OF, AMI CURE FOR HARD TIMES.

DY AX OLD EAllser OF $1 ; 88$.
I profess myself to be an honest farmer, for I can say that no man could ever chatye me with it dishonest action. I see with great grief, that all the country is afflicted as well as mysolf. Every one is complaining ind telling lis grievances, but I tind they do not iell how thear troubles came on them. I know it is common for people to throw the blame of then own misdecds on others, or at least to excuse themoelsos of the charge. I am in great trabulation; but to heep up the above claracter of in honest man. I cammet in consieience say that any no has lirnught my trouldes on ne lat myoelf "4 lan times-nu muruy" says cbers one. A short story of myself will show how it came so to be hiral times with mes, and wo momey at the are of sisty-fite, whu latelited well licse furty y cars.

My parents wrere joor, and they put me at uvelve years of aye to a fanmer, with whom lived thll I was twenty-one. My master titted one out wath two stout suts of homespun, and four pars of shoes. At twenty-two I married me a wife - a very gool young voman sho was. We took a farm of forty acres on rent. By industry we gained fast. I pad my rent punctually, and hould by noney. In ten jears, I was able tu buy myself a durn of sixty acres, on which I becauc my own tenant. I then in a manner grew rich, and soon added another sinty acres, wath which 1 was content. My estate increased beyond all account. I bought several acres of outland for my children, who amounted to seven, when I was forty-five years of age. Abuut this time, I mamed my chlest daughter to a lever lad to whom I gave one hundred acres of land. This daughter had been a working dutiful girl, and therefore I fitted her out well and to her mind, for I told her to take of the best of my wool and flax, and to spin herself gowns, coata, stech ings, Xc., nay, I suffered hier to buy some cutton to make atu ibecter, as I was delermaned to do wedi by lier. At thas tante my farm qave me and $m$ v whole iannily support on the produre of it, and leit me one year wath anothr one hundred and hitty dollars, for I neser spent more than ten dollars a year, whech was tor sitt, nank, \&c. Nothog to wear, cat or drinh was purchased, as my farn provuled all. With this saving, I put my money to interest, bought cattle, fatted theon and made great protit
In tuo years after, my second daughter was courted. My wife says, "come, you are now rich; you huow Molly had nothmg but what ento our house for any of us. Sally must le fitted out a hitle; she ought to fare as well as neighbour N:? Betty:" "Well, wife, it shall be as you think best. I have never been atingy, hut it seems to me that what we spun at lonee wubld du." Huwever, wife goes to Luvin in a flu days, and reiurns wath a catico gown, a caldmanco pethcont, a set of stone teat cups, hailt a dozen pewter tea spone-miners
atharrels-Molly ought to le fitted ove ans well as Betsy (inexl homerpuin and cotion fixens were ruled as vulgar, and white feathers and silks must take their place; Sal's husband must speculate in stocks, biacked by my entorsement; but he had all the firn of ppeculating, and I all the miseries of paying. Then children came tumbling into the world, and Grand Pa must be their treasury department for all things needful. Nothing vas heanl but arrangements for journeys, balls, jarties, and sach liko:
In about a year, Bet's hushand made a miotake, and signed somebody elece name to $t$ cheque, instead of his own-be was arrested. and sent to jail, and I haul fo spend half of my hard carnings to get him out. Sal's husband died, after leaving a legacy of nine chikires. which, with the mother, I've got to support. Bel's eldest boy was trained for a doctor-took his degrec, and sent his six first patients out of the world by improper treatment. For this he hal to tly the land, leaving his dear incumbranco attache's on my pume. I could fill your paper with further particulars, but that might not bo so agreeable to yuir readers. I will only sag. in rerard to hand times, let erery man exercises the ability nature has giren, in has proper and prescrabed sphere-let contentment reign within the breast, nor envy resch its threshold. Resard not the apparent glitter of thy neighboar. nor aim at an cquality besond your comprehension; live more to please yourselves, sunt less to please other people-be frugal, induetrinus and juat. Bring your ideas doven to proper level. not let them be disturbed by bas example So shall you avoid the mishaps hare esprienced in family matters, and rejoio in old age over a life well applied, with just hern for peace bercafter.-Boston Cultrvator.

## AMMONLA.

Every doy scems now to produce evidence that ammonia-thas long-neglected but almost omas present substanco-is ono of the most important uf all the elen,entary maters provided for the uro of man. Formed instantaneously, wher rever hydroe gen and nitrogen can come in contact in a nascort state,-flosting in the atmosphere,-hiding in tho impercepuble cavites of all porohs bodies, or dissolving in water, it necessarily mingles with tho food and breath of anmals and plants,-mtering into their composition, or formahing them with some of the indispensablo elements of nutrition Reveratell expermenta show that the streagth of manure is in proportion to its abundance; that the vigour of plants is intimately connected with fas presence, as their debility is with its ebsonce; and that, if employed in a proper form and futing condition, it, promisce; nlmost alodo, to giro a new arm to the arts of cultivation.
But it is not in all or any state that it is foond to to thus hetoficial; when caustic, ic seems to cart death insteed of vigour in its train. Even when in such combination with wher forms of matuer ts to lose a part of un nutural causticity, it requires ta bo adminatered with great caution, for it sinl approaches the purn stato in its tendency to do mischef. No duubt, it is the neglect of attention to these circumstancen which has led nome observers to islicve that ammonia is deleterious inetead uf benclicint 10 plants. But it 19 moro orpeciallt tho aniunal kingdum which suffers under the irnuence of ammunar in the caustic atate. Pure emmoniacal gan, water of ammenin, and the carbutates or this substonce, including oven tho commun sa? ichahte of die shops, are all irrisating primina, mure or legs energetic. Although mard modicinally, it is only in smull doses, and under ! pasticular cicumsanions.

Fronit somo exporiments that bave lately been mdde, ammothio, in tho caustic atato, appoars likely to be of considerable importanco to Gardeners, on account of its fatal action upon animal life. It has lately been ascertainsd by Mr. Georgo Gordon, the Superintendent of tho Hardy Departmeat in the Carden of the Horticultural Society, that the am moniacal liquor of the gas-works, dilited whth water, is a corcaln remedy for the green-Ily, which bat been so unusuall: bundant during tho prosent year. Ho has found that although gasswater in its undiluted atato burns foliago whenever it touches it, yot that plants do not suffer from it when considerably weakened with water. It appears that when tho London gas-liquor is mixed with ten timos ite measuro of water, and applied with a syringo to the parts of plants infeeted with the groen-fy, it causes eo speody a deatruction of those intecte that the greater part disappear aftor the first dose, and a second application is sufficient to cloar away all tho remainder. Upon mentioning ebia discovery to a person whose gardon was four days ainco in tho most deplorable state from swarms of greon-ly, ho orderod his gardener to repeat the exporiment with gns-liquor weakened with twolvo times its measuro of water; this morning, upon looking over the bushes, it is scarcely possible to detect a living individual; the leaves are greon, and much refreshed by the operation: the aynmgting was only uaod twice.
The ammoniacal hquor of the gas-works being thus proved to be fatai to aphides, it becomes an tatoresting question whether or not ammonia cannot be omployed with equal success in other caieit, oither as it is found in gas-water, or in the state of the carbonate and subcarbonate; and this If an inquiry that wo commend to experimontal gardenera. All wo can at present state upon the subject is, that if dies and other insects, including beolles, aro put into a dry tube containing a small quantity of smelling sats (subcarbonato of ammonia), they fall to tho bottom in $a$ fow minutes afier having been exposod to the vapour, and then porish; tha: green.fly thus treated becomos yellowish in e short time, and then dies, just as if it hed been washed with gas-water; and that even the gooseberry caterpillar, which for a lcag tume masists the action of gas-water strong enough to kill the green-lly, cannot exist in a tubo conlointag a litula amellang-alto.

In those inatancea wo spprehend that the offect is duo to the volatile rapour of the ammonia, and to nothing else; fir when aphides are plunged into weak gas-liquor, their death dues not appear to be hatened by that operation; on the contrary, when exposed in a tube to the vapour of carbonate of ammonis, thoy died oven faster; and caterpillars floating in the weak gas-liquor lived longer than when compelled to inhale ite vapour. In all cases tho insects make vehement effurts to escape, so that no doubt can exist of the emmona, 1 roducing tmmediato inconvenienco and a senso of danger. If a saucer is only moitened with weak gas-liquor, and the $\varepsilon$ ooneberty caterpillar is thrown on it , the creature becomes immediately convulsed, and throws itself violently backwards and forwards, after which it becomes half torpid. The caterpillars do not, however, die, unless exposed to the influence of the ammonia for some time.

Is we foresee that many inquiries will bo made as to tho proper proportions of gas-liguor and water that ought to bo employed, it is as well to anticipate them by saying that it is impoisiblo for us to answer auch inquiries except in general terms. Everyborly must ascerrain the fact for himsolf, by mixing gas-lquor and water in various proponions, and trying their effect in a a mall way in the first instance. The fact $\mathrm{i}_{3}$, that the quantuty of ammonia contained in gas. liquor is extremely variable, the gas.worka making it of ne unifurm strengit That used by Mr. Gordon, and by the gentlemen above alluded to, waz very strong; ofervescence not ceasing in an ounce of it until 50 drops of the aulphuric acid of the apothecaries had weon added. Thowo who wish to deturmine the relative strength of that which they employ cen do 20 by a very simple procers ; take one nuid ounce of the gas: hiquor to be employed, and add to it, drop by drop, auch sulphüric acid as may be bought in the upothrcaries' shops, unthl effervestence ceasos; thion, nupposinge they find thin to occur after 25 drops havo been added, they will hnow that their gas-


Horticultural Society; and consequently, instead of adding ten parts of water to ono part of gas. liquor, thay must oniy add five parts to obtain tho samse streng th, ond so on. It is true that this 13 not a very exact proceeding. because the suiphuric actd of the apothecarios theif varies in strength ; but wo concoivo is to bo quite suffictently exact for gardening purposes.
There is one important advantage that is obtained by this process-namoty, that, independently of killing the greon-fly, the plants aro well manured by tie same oprecation; so that nothing is lost.
When gns.liquor cannot be had, or whero its offensive odour it inconvenient, we ahould try the efiect of carbonate af ammonia dis solved in water, in the proportion of one ounce of the carbonate to a pint of water. This would form a solation of about the strength of London gat-liquor, and might thon be lowered with ten proportions, or, as nono of the ammonia is uncombinod, with 8 proportions of water.-Gardeners' Chronicle.

ICE HOUSES.

## From lhe Dollar Farmer.

The following description of the manner of erecting ico housos wo select from the Farmer's Gazatte. Having ouracives witnessed the superiority of houses conofructed in this manner, we can recommend them an far superior to the underground houses, which aro usually found in this section of country.

Tho most powerful agent wo have to contend with in preserving ice adampness, which arises from the gradual melung of the ice, cnd that which the atmoaphere naturally contains. There is more difficulty in excluding this than warm air from the ice. It i - of the first importance therofore to locate your building in a spot divested of trees and exposed to a free circulation of air. It should not bo in a collar, nor sunk in the carth, nor walled up with slone, for auch locations are inevitably damp, independent of the vapour arising from the ice.
Erect a plain wooden building of eight or ten feet, posts entirely above ground. Size according to jour wants. The oatside covering of boarde and plankn, placed perpendicularly with batung over the joints. The inside boarded up, clapboard fashon, lapping on each other to prevent the water from runniang into the filling, which should be of charcosl if to be had, if not, well driod tannor's bark may answer, but will need renewing occpsionally. Tho filling should be put in as the inade boards are put on, or as may be most conventent, leaving places for the purpose open The floor of three or stx inch plank, high onough from the ground to allow a free sirculation of air, and deacending enough to drain off the wator which drips from tho ice, with ribs of narrow boards to keep the ice abovo the water, and holen in the inner side to let out the water as it flows down, and a good drain to convey it away from the bulding.
Let thero be a moveablo finor above the ice, thet there may bo but litto vacancy between that and the ice when the house is filled. Let the floor down as the ice is diasolved or removed. On the noor lay dry rye straw, two or three feet thick, make a hole in the centre of the fluor, with a trap door large enough for convenience to put in the ce, and to go in and out. Let two opposite sides of the building be boarded down to the ground, the other two open to admit a draft of air to convey off all the dampness.

Thus your ice in thoroughly shielded from damp neis and warm air, which is all that is desired and with proper care in going in and out during the summer, you will have this great luxury and necosnity of lifo in perfection; provided you pul up good solid ice.
The largest and most complete ico housas of which wo bave any knowledge, aro thoso on the Hudson rivor, from which Now York city is furnished with a most elegānt article of Rockland county ico.

How many there are who will ask God to bless the poer, when they would not takn, a shilling from thotr pocket to save them from starvation


## From the Albany Cullitatert

Ashes fon Pracin Trees.-Wo advise our readers who have peach trees, to place ashes around them at the surface of tho ground, not leached, but new ashes. And they will do no harm if put around quince, pear or apple trees, aince all of theso are more or less subject to the actack: of worms at the aurfaco of the earth, and ashes are found to bo ona of the best preventives of the borer, as well as one of the best auxiliaries to the growth of the treo. For the guince buth, we have found nothing equal to blacksmith cindera and coal ashes; and those who havo these materials, may turn thom to good account by this uso of them. Tho ashes should bo applied two or throe times in the courso of tuo summer, commoncing in Janc.

Smokina Orchards.-In tho last numberof the Journal of the Royal Agricultural Society, it an account of a successful mode of preserving orchards from the caterpillar, \&xe. by amoking them. The smoking is done by placing a largo iron kettle on four low wheels, and putting in it dry wod, weeds, rubbish, and somo brimstone, and kindling it with a bellows, which driven-a strong and continual atream of smoke through a moveable tube, to every treo, and every part of a trea in succession. The smoking being commenced on the windward side of the orchard, and followed row by row, the moth and apple weevil, and black apple fly, will bodriven out and the cropsaved.

Curious Horticultural Fact-Third Crop Apples.-The following is an extract of a latter received at the office of the Phil. Forum, from Portsmouth, Ohio. Tho apples sent, woro oxhibited desorvedly as a curiosity:
"My June apples were ripe on the first of June, and in blossom for a second crop which ripened tho last of July, with blossoms for a third crop $\bar{x}$ sich ripened the iast week in Soptember-at r.hich time the tree was in blossom for the fourth time-the fruit was blighted by the frost when the applas were of the sizo of a robin's egg. A few bunches of blossoma were observed on the trec in the beginniap of November. An opportunity offering, I send you three apples-the bottle being small, I had necessarily to send you small apples-but they will serve as specimens of a great natural curiosity. My Juno appla tree, which blossomed five time: last year, and yielded ripe fruic three times, is again covered with blossoms thicker thaz over thle spring."

Incron Cabrage.-Maj. S. has iately succeeded in destroying the lice on cabbage and otber plants, by sprinkling them with a strong deccction of tobacco, walaut leaves, and the leaves of the pride of China.
Pendlelo.i, S. C. Aug. 5, 1813. J. B. S.
Taz Prob Curoozioxicred ey Sazt.-Capt. zovett of Beverly, informs Mr. Hovey of tho Magazine of Horticulture, that by applying about belf a peck of salt around each tree, spreading it as far as the branches extend, he, as well as mang others who havo tried it, havo saved their fruit from this insect. The time to apply it, is about tho first of June.

Mildeiv on Goosererries.-The great diffenlty with which gooseberry growers in this country are obliged to contend, is the mildew, which in most cases renders tho imported varicties worthless. The Farmer's Gazette states that the mildew is prevented by sprinkling fine salt around tho bushes, or where it can bo had, by placing sea weed arvund them. Watering with soap suds, before the fruit forms, and using compost for manures, is also good.

Good Cows.-Mr. F. D. Allan, of In Ray, Jefferson Co., N. Y., mado, in the months of Mey and June, from his diary of ten cows, cight tubs of butter, weighing eight hundrad and everenty-two pounds, (nett weight.) boing a fraction thurtiof forty-four pounds per month per cow on an average:Tho Jefferson diaries nro not likely to lose, their high credit this year, if Mr. Allen's be taken as a. sample.


MINCHILES OFEVEGETATION AND Tillabut.
By the bate Jous Yoven. Siscerctary of the Provincial Agrienlural Board, ant Honorary Member of the Massachusetts and Montreal Agricultural siveteties.

## on manures.

There has been no point perthap in agricukural science mase kernly conterted than the esart degree of fermentation to which dung should tie expused, befure it be epread on the soil. Some argue, that is should bo allowed to rot till ats original texture be broket dawn and destroyed. othors, that the process should be carried a con siderable lengti, bur checked ntoou tho muldio of ita course, white a thard clona allege, that the lenot Incipient sta:e of purefaction is at din "xpunc of tho vegernble goses, and elowld ns much an posaiblo be precened, tilt the manure be depasitnd is the earth. A mides such a comseriety of wasrlag

 roust adthere to whatever dhternination we tudy: Sir H. Davy-a name of proeminent cellentycontends that the s:nallest degroy of fermermation is accormpanidd with setting at limpry the elompry tury pinciples, which nitl raturaly rscape, ynl-so the soil-in which rese thry will her inhibert and kept in reserve for the gurpures of seg ctaion 13. thiaks, therifore, that straw in plore nf lwing gut in tho duss. yard, should bo pluypher down in a froh state, and that to farilizare irs miscurr sith with a machinc. - The conductor of the $F$-rmer's Sfagazinee ulthough inspired with dua repprel for the conelusions of that crlatmend chanis. openiy oppozes thar viopent innovation os the cem. mong experience, hat uthess a cerrala degree of putrefaction comes on in the yard, while the puureacible subatances sare recenily voided pospessed of patural hest, ao subsequetat fermen:ation will iake plate ia cold and clagey suils. Ho has knowa dung atad literr, which hat beca turact dowa fred in the furrow, ajipuer next spnas wiblout any visible chango. Of course, it must baze laid domazet willuet constibery 10 she
 cuggestion of a specuiative writry - Dry ut ras strak was regulerly laid in tho hatlows if din: a;


 afermards ploughed, the atraw sceemed to Lave yadergoun $\mathbf{3 . 0}$ change; not did is contory any art siblo boneft to fuate crop: - Hed the strin teraw bsea previously subiscted to orly a mm? meare far moncation in tho duag sad ; there can ber in douht but ild effec would have bren wry dif-rert, - Truth; says the comazon adage, hes beavern;' and in all exitremo ceacs it is eafest to niecer a middlo cearse.
It is necraance. towever, so remark that the peihing of the putrefactive procras to the las. staje, nad suffering the deas so ferment ci:1 it fall: dowa into the black careh, is the =.voxt cut.
 principles, and is zuw comperancd is Englarid with rucri:od reprobzion. Leong lnfor anmaza and refotable subutanec come co this advanced scase of protidity, the nuth, itice exhathiuns are
 is tho cortonaceoms maner, whichis searce a sixil parr of tho original bolik in value. 1 have myself seca, in more :han one part of the f whince masy baras xurrounded with this decased cata.
the setides of truel pu.tivtio ma:arr; whit the setider ted there wito to unate, praty fum carclessaens, someuter, from ignoiane, lmat ge\% orally from a supite und immunabio matfreared whque sheir zurol afisira. Such we tho uleased efler 24 about our boasied grazing sy
vilif ing and couscaning tho pluutir
This cuntrouctry Las lust mavis of t.a smynominct since, the insention and use of cumpuras. ter

bo condueted and carrice on in tio presenico or earth, which fixes uell secumes the gawes us fast as they are hborated. Even tho deronen of the pro cess is n mater of lesa consequence; bichaust, it reserved for fuume pase fulncse in hreping, nni whether than has happened by $n$ new nbeorption or by still bolling their original ame mehnngal term. In the composion lat the whole animil or cenctubte atructure may be dissolved, ant loave betud no trace of existence, whinout the leass wasto of the pranciplos of ferifles; becuuse the
 cary saturatud. We may go further sind stator, thar cumptete decomposituon is dearablo in this case aheh is so much so bo nvodded in the farm-yard tecnuve putresceat mytter can onty bece:no vege table fuad by ies resalution men primary parts, and It thes bo uflecied by anty proparatory step. thr soung crop recetiva tha fuil and anstaataneous bencit. Itho cosapost manare is carried to the feld ready to give out as nebness on the very lirat enill and to supply tho masceat zadule with a conious alare of :souristiament
Itrifeve I have mare than onee stated that the diverstial tribos of the vegenabio hangdomare sussinad by the circulaton of the sap taken up by ur ulbsortman nowhe of fibres. That sap, which as exiruete if from die e.ill, holds in sulution either the yrimary or secondary princlplo of bounos. Whator, then, is somblo in waser, or can bo rendered ohy she action of chemical and ena, companes with of tho vegelablo structure. Both seld, fuyd, zend s2sovus badiee are susceptible of solebllity, and of course contribute to tho suskentation of plana. Muritrge und -ugar which are sulid, jelly wheh in duid, and nammia, hyst gen, nad carbonic acids which nse guscous, are sill solublo in water, and are besides the cxasects of rajezablo mater and theso by the cap ray bo drave in as nuurishment, and cibler trantormed by the zecrosary organs into new compounds, or are still further niaylyzed. Tho sap then is tho stream of vital bise, nad tho more it is saturated wah nutrinive pantectes theo moro daxuriant ead vigotous sthe gronth. Ba: it ca:s only.ke sniurated by the diswhetion cf asimal and vesctable bodies, und there fore the more jerfice the decompesituos, prunded the co:atiturnt ytuceljles hato aot cscaped, zhe ather tho mamro. Heaco a compost hill may triniin ior jeara befuro it is opplet and be turaed vier serestil times tu lring un succennvo fermen-
 advantoge ; whic ato bimple dung of batmal, text la the camo mamer nuald vowno edurely zscloss and ineficicient.
The putcuiactavo process may be carricd on in the jrest ace of $p$ rio evath only, or of the earth,
 rescable matior.

Cbe s:mylost of all composts is a mixture of Lran und zurd dura, nad rurface mouht takea fromn a field uniter regular cuture. The proportions
 tu the opecatw. I lavo known noms inatiances, wheceswu cat:s of dung wero used ior on: of rarth, vitura, where dey we:e besoded in equal quimitiucs, ind at is noz unfequene to compound swo
varth to ute of duas. In fact, such is the uneretathy in ue cormpostuon, that almast cuerv farmar atupzs y mude pecular to hamelf, and with rqual succees. So man nerd thereforc follow inplicitely ciocumy, but anay vary und muliply his expectimenk, cecordans tu tic surfestions of fancy orthe
 two:ly cudless variciy in thr combnaman of the ingredients. Tho ozher uge of metmaxing the unl wath thedang $1 \times$ to imbibe the gaseous ele mente
 uroush it whet lest dessity ond compreseninas if atic, it wall $t$, mare ayundanty mazuated uad


products of decompusition may enter bo concontratral into a small purtion of carthor scattered nver a largä b dy. The only errur noto which the firmerse can uin, is to supply aych an tuconsiderablo qunntisy ny will be jucaphthe of Pimpibing the elastig nnd voltaile prrticks, and thus hy has own mir management, occasion a watto of the vegetablo nliment Ona cart lond of soil to two of stalile dung is the lease propurtion which he ehould over attempt to combine, nad perhapu if the uwe wore mixed equally, he would be compensated for the additional habor ond uxponse.
The wholo art of composing, is to arrange the materials in alterante layers, to shate the littor and durg with a hay fork that it may lie loosely, to cover the sop and themestes whearth, and give it a slypiug ditocuon that it may cast off excessivo moly:are. Its height should never exceed four foct, or fuar and a half; and ats breadth should. ba auch, that a man on ether sude, may be enablad to that the mgredients into the centre without trampling on tho heap: for compressions in all cases returd tho putrefactiro procoss. If thomass, aftor boing compounded, is long in generating heet, urino, sath, or oven fredh water poured on the top slunly, that it may ooze dowaward, will bring it on with rapiday. Un the other hand, should the process adrance wita 200 great volenco, which can always be known by heaping a stick in tho middie, asal drawing th out occassonally for trifal, the formenta:ion must bo zestrained by zuming wer thedu: ${ }_{0}$ bull, and mixing anaw the ingredients. This will not only put a stop to the mischief, but fucilitate a second fermentation ; and as freah paricles of carth will bo brought into contact with the decomposing manter, the wholo will be cratched and impregnated with tho fertilzing principles. These geraral priaciples are npplicablo to overy species of cumpust, and neenl vot ugan bo repeated.

## a hatecin farming.

## From atc Gardmers Caronict.

There is a very common ider that arable lind is troublesomo to manighe, and leande to exponso and loss, when it is not in tho hands of a vety expericneed farmer; and oo it is, when there lo such" an extent of is as may be colled $n$ farm. -Very fow Fonilemen whe occupy arasiol land find that they have a pruf: at tho end of the year, allowing for reas, zaxes, labour. ©e. Buz a very fer acres of a moderatoly good woil, occupied wha a greaterextent of grass land, may bo very valunble, to 2 man who kecps horses for his pleauure, and core, checp, and pign, for the use of ha, faraily. $\cdots$ In the rountry, a horse and cars is extromely.convenient, inot an cesentiel part of an establishmost. This hurso may bo csod in a four-mhoclod carriage, nluac or with a compauin, and it will bo no derrment 20 him , whether it be a degradation or not, to draw grea food for the cows and to ransport menuro inso a fich. Ho may now and then drate light plough or barron, or a borso-boe; nnd 35 ho is not waneed every day for umnsporting his master or vonse of dut family from place to place. heo is beter orcupited in light farm-rotk than in andiag idlo in a stablo. In a larger cstablithment, whero a regelar carriago is kept, an odd horse is very usefful, such a hrorse as may bo aubatiened for ano of the carriago horsas, in capes of lis beins larac or wantimg a dose of physic $i$ at all other times lmije a car-horso.
The gjanizity of nmble land wo mould sugcost s usceful and profuabic, in addaon . 6 twensy or thiry ucizes ur giaps, shouid_not oxceod sea or,

 to to used as fudder. If corn is ever sowa, it mose be under peciliar circumbtances, for tho nhena raised hy genulemea is ofect dearer chan tha: which is bought in she rastiket; but crops of to feed catilo are n great saving of hay and in winter, ard greatly increase tho mazuro: h.ucreas ther canoot be readily prephased, ard vro
 urove he Eetill:ir of the soil. Suppose, wone ton acrus of n good tell sw loana, worth £气 an ucro to i.n in a farner, ut a distanco frum a greal town, and s.e ouker buadeas umuanuige to 108 . more per sere ; hern is n rens of $\mathbf{C 2 : 1 0 2 \text { . per ncie. It }}$ mas be julisi us, at first, so set some neighbour
and to pulrenso it with harrows and neursears, lehed whel furs, spades, und hues. It is presumadito lus ua a porous sebsont; it not, it must be closely underdataed with stones or tlos belore any other operation. This necessaty will maku tha original valuo tesí than we supprosed above; but tho result will bo the same, if wo udd the interest on the expenso of Azaining to tho original rent. The field should bo dinded und croppeli as fullows:
-Ono acre planted auh potatocy, une acrosown with beet or mangle wirel, onv with swedth turnips, threo with ryo atd tares, bown at dafferent atmos; if the ground is $00 t 100$ heavy, une ucte may be in carrots, ono pharied wath cabbages, and two acres with hucerne. lins tast will contmue for many years if the soil is deep and mellow, and if tho crop is wecded every thast is cut. As fayz an the tares are cut green tor cutie, the groand is hoed by hand, and white turnipare suwn in ruws. Tho winter tare and rye will ta ready to cut in Moy, and the ground muy bo hoed arer and raked, and hquid ananuro mey to pouted over it, before tho turnips ate sown, whelh wall th by the ond of the month or carly in June. Sincdusturnipis may yot bo sown to advantage, or tho flubo, wr red ronad turnips. Later in the season $u$ amaller aud quickergrowlog norz maj bo suinn as 'ate as dio etad of August. By a litue atteman ut the suc cession of the different crops the gruano may be kopt centinually in a productive olate; ast as ail the prodece can be consumed as hunic, tho land will almays have returned to it, in the spope 0 manuro, all that is drawn frota it; nu plantsipens ing their seeds in it, thero wall be vely latio ax bruation, and tho fersility will be comtanult; :reasing.
If it be nsked what in to be dunc with all ih produce for catile, for, exce,t putatues, no foills reised for mun, wo will readhly nnswer, thrre is no fear of as., difliculte: if the stuch is nut subii cicat to consume tho produce, it is casy to increase it iVo auppise a considerablo qunatity of fuestura land; this will ketp sheep and joung catile in sommer, and tho roots, cabbages, Sic., witt keop uad faten thern ia winter. Fo have a fat sheop or a lamb now and zhen to kill ior the faraily is a great ecunomy, as you have the butchior's protis es wall as : the grazier's: 2.cow or a Scotch ox may also be fatted ofl, and with lind its value in the ratket. The Lucerne must bekep; fur the norses and mitch cows ; the carrots atored for the hurers and pig: in water. lt is dificult to calculato de raluo of this produce when consumed at thone and not sold; but tho crops may be salued as atay aro carricd off: ard by puttiag valy tu $u$ thads of the market valee, it will be tand that whete these crops are well managed thoy are fier muse prufio ablo, on an averagu of jears, thata crupg af corn, orea if theso could br cased coery year whthout intermisaion. 350 dushcto uf potanes per cito ia a yery commes crup-bis say 200, at li pres hero :s $£ 15$. The carro:s, ii iho white bujune carrot is nown, will prodece fro:n 15 to 25 tws. no will tako the loweat urerage, 15 tune, at $£ 1$ por wh: they would xell for zwico shat in a tover, for horses-hero is $£ 15$ nere. Tares for horsh are readily sold at ls. the equaro perch, tho busis
 any onfy est, or $\pm$ if iur threc acres. Lucenue $i_{1}$ wardh fully: as much, or ratier moro, as it may bo cut shroo or four times ; to the constimer they nro worth daublo:-sot tho rwo acrea 2 E 5 . Thu cobbages and Swedes first sown will bo wurd 5 SJ por nere, and the trect as much. The turaipa, after the zares, rew:ll sct only at $\underline{5} 5$ the threo acreo. Wa:shall thus have an averaino jruluco ui ETO, besides all tho manuro which is morie frum ita consumption, and whach is more than tho land requirea for tho sulsequent cropy. Tho rent and faxes ware $2 \mathbf{y} 25$, which leares $£ 15$ ior labour. We tave set down nuthing far ato occupnur's profit, because wo supposo unat the convetisenco and saving in the feeding of his horses, the milh and buuer, pigs, poulty, resa, Ec., whith bu bas at a much lower prico than he could grerchass them, will amply repay him. In the avorages, we have mado amplo allownaces fur risk from fulures, for our experienco hoids ue out in warranurg tho averafo produce 20 be fully what ue havo sinied for nay number rif care. In sotne yeara st triathe be nearly doubiled, but from the varioty of prodice. - Eceoral faplera os extraudieary success in alt
the crops is not to be expected. All tho work, as far as is practicable, should bo done by tho task axcept tho tantag ofl tho cropa and carting tho manure.

## FsIRM ACCOLNAS AND LABOLI BOOK

It is of great importance that farmers should keop occurate necomina of the labor bestowed on cach and ath thor dificront crops, that they maty know the actual cost por bushel, or pound of the arious products of the farm, and this noy be so easily done that thero ecems to Lo no rousonsble excuso fur neglecting it. l'el suppusu you were (1) state fiom Rome, und travel ceast, west, north or south, and cull on overs farmer jou come to unn! yon counteri one huadred, und wero to ash cach otu of them thin question, viz. : how many cents per bushel did your tast jear's crop of cors cost you? How many do you thiak out of that hundred could answer tho quest:on 1 I know whit our ansner mall bo, but 1 grucss not ocer ficc manufacturera and mechames know precisely the cost of their article, und why should not tive fire mor? It vooudd nue only be a sourco of preculat satasfuction to each sidividual furmer, to be able at tho elose of the year, to ste down and ascertann ho netual cost ot earh article to thad rated, and consequensty other linow or bo ibte to estumate very naty lats protit or tois on cach-but by comparaig noted wath bid neightora, pronided the ractice here to bucumo gereral, to could larn who had been tho most sticesastut in there opera tons. Kach man wouhd be able to say my wheat cost me an unch-ung curn so much-ang potatoen bo much-and so of all his crops, and this would soun show the genornl average at which the sariuus artictes are prodiced anrougti the counzry. A..d aftiose $n$ ho wero eaashed wo produce at tho lowest rates, the erapury would be made-how havo gue done thr 7 -by what menagement havo you centh ne toproducect those rates?-
Jiow as I have undertahen so show the why nnd tho sherefore, I propose also to show something of tho hom, hoping thas some masy bo induced to comneeno a practice, which, if persevered in, I an suru will provo bod gleasant and profituble.
Atsacked hercto is it = pian of a Labur Book which ratave used and lu...d convemen-tery grobably it may bo sum, foced, and in that respect, eve:y man san exerciso das una ingenuity. a few hects mute os less as uccesion may requite, of ommun miad yupes slith.cal sato a gund practe routd cover, makes tha buok-ucless you chousc to patruaza dhe bouhseiter nad gea a litho mure expenbive unc. Use poge fur cach person is reuired for uno monati. Iacrowhl oe, however, a ew hace lift at the bu:tum, which may bo used lis makatis any memutinduin ot temarks which, the busticess of the savith onas suggest. Os the atino of a man who hagesias to wurk for a fou days at atime, may becatered ther.: At the end u the munh, alos culuma of days wall be added up and alic foutias pu: down, there to remam sill the man liny dune work, ur the close of the seaso:the ionsitas of cach montia will then to carrica so the pince when he quits work, aisd all added to celoct-then the umbunt of wates calcilated ata, enenod out in tio cuiuma of dollers and cents.
 cath, if not, it will siast :here ay a recond of the

 ut haothe:. It wal susublecurto familiar, ania you adias soun forgat juus mipites us zout Lubol Boty. Tion postiags can tu dono rainy dass or eveling. This will'renaire sune care, that each day, wid pan of day, be cariced to ais gruper piace on thulerdarer, and some litile marh must be made on sheif whichare posied. Sumczamea in $p$ os:ing a diveson lite the following, it will be necessery Supportyou photh up a piece of firo aces for corn, phatocs. Je., your hare not sellied ia your mand hum your why dividr it-in putting dowa hat


 com, whick wall botinseo daye, provided you piveghed junz ath ncre hany. I sanommerer thought
une fourth of a day -but if that should bo fhought not bufliciently necurate, when there are frequent chat.ges of work, hanad might lie introduced. The Ledjer may bo of almost any furm or size, and in poshatg when there are several successive daye at ono kind of woik, they mag lim all justed tognthor. There must be an necuunt epened on tho ledger. not only for each diniesent crop, but for each kind uf wofle done, viz: One fur improvemenes which muy includo clearing up lanil, ditching, making and membug fincen, se. And also no for chores to tako up the odds and ends-and this account, if not nurrowly watrtred, will swell to a pectey Jargo ane--llut I nun nware, thero is one serious objection which may be urged 20 this whole bu iness of kerping a luhar book. Iture might, perhaps, bo ono usry didagrerabie ovening's work towardy the close of the vear, and a man might probubly foel muru lihogoing about it somu evening when his wif. is away frum boino I mean the rechenitg up lus onn labur-:o sit dawn and add up tho aumber of days he hes actually worked in each annth during the season. There is a baro possibility that this might exkibit a result which oven le limself might duink contained more truth than puttry. But I hope that every one who should havo a bad case of this kind, will zellect shat tho most eflective medicincs go down hard-and be not discourajed but go aliead-and try and keap in mind hereafter that a labor book has a wonderful memory. When a man employs several hands I sec uot how a book of this kind can bo well dispensexl uith-merely for heeping tho time necuratoy. The anuunt of cach man's labor can bo ascortained is a moment, ane beyond all manaer of dispute.
l'erlaps many men somewhat ndvaneod in lifo and unarcustomed to licoping accounts of any kind, cel unwslang to undertako a thing of this kind: in such a case I would say-if you lave a boy that can writo a readable dand, set hlm nt it ; it will bo a alualie exorerse for him-asldo from tho utility of the thing itself.

LABOURBOOE.
$18: 2$
Finwafo freqgexys.


> Jiaking compost hray, with tesan. Une 1. $\begin{aligned} & \text { Hostac } \mathrm{coma} \\ & \text { do. }\end{aligned}$
> i chorcr, 3 ralay, r. sto

20 cays-2 months, 4 days $=810.31 .5$

## I.EDOET.

13:7 Cnin 12 screx it planing, Ectrard,
do.

From the aboro exaralen. I presume to rechod of feriing tho acceunts will be readily underatood. And tho lat of Aust. as preciscly tho titre for commencing a Lubor Boun.
P. S. When your crop is harvessed ard macaured, fiost up tho account-and enter uncieracarh tiso number of bushels (or jocirds) and cosi por bushel-there $t 0$ siand ay as record ui tho cuat of cisian coth, posnioed, or whatryer crop it may bo, for bat ycar.-Cenital N $Y$ Farmer.

Wic fiad the fulluwing conurdruma in an ex-
 Whis in a nowspaper Like a zovih:bruaht-Givo it api Because evergbind should have ono..of his uivn, and aut butsuw his neighbor's.'
A Goon Cror.- (Jur respectedi Eellow-citizen, William Carmichael, Fisq. roised this year upon wenty ucies oi lard, one thousand and exenty si= uxhels of Maditerrancan wheat, briag a fraction below fifay-one and a half bushels to the acre, averagug kixiy grounds to the bushel. This is a very groie yuld, larger wo bolieve, than was cuer made before on this shore, nnd we question whether tho State can beat it. This ghows what good farmizg will accumplish.
The latid on which eluin whent tras raiscid, ia pot bet:et wheat land stan two-thiths of this county. but has been greatly improved by alon uso of mand
 cope. ${ }^{\prime \prime}$

INTERESTING EXPERIMENTS ON THE: MAKINE OF Bl' ITER.

## From The alluany cultzeator.

In the lyt No. of tho new series of the (Sutaterl! Journal of Agriculture, we tool a valuablo pamer Ly Prot. Tratl, an the makug of tenter, the prin. cipal resulta of which we hate combersed tor the No. of the Cultwator. In mahne the expermont, the milk of several cons wats mened, siraned, a eertain number of frots tahen, and the cream churned in glass vesvely. Tho whole gertes way condurted whth the greatest nteety and accuracy. The objects propoaed, were ascertaned by the cotaperativo adrantages of churnmg.

1. Sweet cresm alone.
2. Swee milk ond ratam toe ther.
3. Sour cremm, or that slighly acid.
4. Sour mak and creym tare-tier.
5. Scalded or cloafril cream.

The experiments uloo embraced the rise of the temberature of the eream ta chutstag, whech waw tound to bo from it tut dearves; the effect of en: ternel temperature; and that of adlug water to the churn, as practiced by many. Tho dutierence In the yield of buter between the first math drana and the Jaxt, or the steippues, wasalso ancertained.

Experiment 1. Value of the first and last portions of milk.
No. 1. Fi:st pist millhed. Quantity of
butser...................................... 31 grs
No. 2. Pine xif the whwte mathing...... $25 \frac{2}{2}$
No. 3. Lavt pint of the motheng...... 416
In one inntance the diflerewee was will greater. tho first pint yolding only 5 grains, and the lavi 551 of butter. Anesperimens was made to excertain the quantity of curd sulded by the firnt and last portions, bus the difirtenco was scarceiy pereepuble, showing that the quantuy ot cuseine throughout the nilk is nearly the same.
Experimear 2 The was made un swent croam: swoct milk and cream, sour milh, wour milh and cream, und scaldeal cream. Three quarts of tatih of the ammo quality were used n each case.

Ne. I. Sweet cream alonc. Giave of
buter,............................. gether, churned 3 ,hours, but no tutter.
No 3 Sourcrram alone.............. 1756
No. 4. Snurmilk Nits crebmbgehurr, 19ma
No. 5. Scalded cream aloac........ 1941
The buter of No. 1, was of a good color ast well favorest: that of Nu. 3. in bath coltorand tation was good; No. A was paler, buz fabored komi; No. 5 was of a rich yelluw color ard of gome tuat-
Experiment 3, was a repeution of the forezurus. Not quite as much butter was mado, as it wan a month later in Lue seazon; and as befure, no buntres was made from the sweet crean and milk. From theso and other experiments, it was frowed that scalded creare, or that ahen trom scabled milh gave the moat butisr; the nex: suye milk and cream; the next from the alichily sur cream. and the smallest phantuy from the awest cream In none of the experimenta ermbli buatr be made fiom the swect cream ani mik tegether.

Fxperimenta 4 and 5, were made ou determine the tume in which, wuts the sarse expooizre, rnoridity commenerd. It wias fugad that the butiey from the sealded rrism hrpt uarst; then that of then sour milk and crram; then the nour creatn; and the best whe that fremt the sweet eream

Experimett G, wre 3 madn to ditermine who hers the linbing do iurn ramend was not on proportath to the amount of caseme or curd an earh Experte ments showed thas to be the case, ihe hurde containing tho most cund berog thoan whelirshithed rancidity the cariest. [tin provad Ho nmessuity ol perifecty frecing butureform all motk aft rethomere.

Fappriment 7, was insutured bus asertam the effect of werchurnag, or continumg the gracens afier the full separaton ot the lutior. It win* found that the quantity of butur was comenitrabls increas.d, when tho chousning wan coulmued thit an bour alter the liutter had bornawd; bat the prat.
 compared with that churnad the necesary umac only.

the cream in churning, had any induenco on the furinty ar quantity of the buther. The esperiment athone $I$ that the thblimon of warm water shortenad he pertod of churnus asrithe, Enve a huthe more thater. but mpurcil ita quality much. Cold water rpipared to produce huthe effret nuy may, culese the "xternal temperatum way sery great, when 11 condred the butcer more solnt and improved the yuahy.
In each cave a number of ex perimena were made, and the resulta are theretore more satufactary than a sughle expertment cutbl hate been. Someof the grincypul of these zenults are ta follows:-

1. The addition of some cold trater is useful, When the crenm ts thek abd the weather hot.
a. Tho crmam afone is more masly churned, than a maxime of cream and milk.
2. That buter frum sueet cream has the beost havor, and kerpa the longest.
3. That scaldug the cream gives most buter, bue berumes ranid soonest.
4. That churnag the milh and cream together ahen shithty acid, is, on the whale, the best procers.
5. That the herping of butter depenis on ita pentect fredum from caseme or butcermik.

## A BCTTLIE IABLE.

Mesers. Gaslonts Si Thekn,-I will attempl Tosny a word on the subyect of butter makineThere has beren quite cnough wat about muming. seturg the math, churrang. Ac. ; my oberect will be to atrend to aome small estentials ation the butter is chure ed. Oavpowne directon s, never touch at with the naked hand, for it as-unedly gives it a trasy, olly tavte. Sime yersons may say that I throw mgedin into the banda ol the cratic, by sayiag shas buser is greay, but they arewelcome to make what they can out of al. I wall ewo goun npecti. citon of a simple machine to sipparate the buter finm all the liquad mater; and st any perton can uptase on 8 , or describe a briter one, the aff $r$ mbun will be gratetuly recived. The one 1 bavo in uee, is a maple plank or bogrd, threotert loug. two tect at one end, six unches at the ciber, 4 true taper on each edge, with stups six ache wide, nailed on the swo sudes; there are chats at each end on the under side, in which is iserted at the narrow end, a Jeg sceventeren ifce es long. and tho ligs at the widne end, thenty-two meliex loag Un the surfare ot the bward, ner the war row erod and in the centro, is an trow whaple; nhed ot maphe three inclies aquare, suve beret ten taiches long, a linte tapering, zudicea in the cunt, nath athe head that wall ura mostie staple ; the wther ced may be turnod or abaved to forma hame ale. Butury on thia board, worhed and prensed whit the stick, has the ben fit of the hiqus sub atner conatently draming from $\boldsymbol{r}^{\circ}$ as tho working progressas. and the labur can 'e performed in w quarter of the time, nuch boirr, and mach les laborious ex-rion, then aby other pisa that hav come to my kanubdine.

A Saratoga Colnte Farmer.

## Auguat 3, 18:3.

## CIRE FOR SAIIVATION, Ne.

Messer. Ghinno © Teckir, -l send y u a meipe son care the an urvy or alivation. lanve
 it in your puper boa car doni. Scrape at the gatadio of faramaun barh-tahen ne murbif the harth a can be craspil Letworn the thumbend fore binger-the samic quntuy ot thm batk of sumact woot, the atan of red manh or red root, ho ame
 patatry rooln and tups ; put nll intotw quati s: water, bul slow unil it is ridaced to ne quant; wen add half fine wimear, hall phathory, me arnce alum, one do. of xalipetre ; afor at sithen.
 "uwitus the ranuth, garghng, N: wan is intme. Watrly afier meala. There is no dinger if it wat twalluwod-no neceswy for awall.whig.

Thi* J. Hozues.
Concord, Baker Co, Gime. Líl3.
To thosac engaged in stom calicatian of stre fihu-

 growth mint whim.

Improvement of Sannt Lands.-The Hon. Wim. Clarh, ol̀ Northampton, Masso, as wo learn trom the Ni I: Larmer, has "neveral hundred arrey of light lands, which he hau undnrtaken so improve, montly ty the turmaz in of clever. Ifis tirst growth is unhally ambll, but the speond, which comes from the seed of the first, is uxually ver'y much beteer Some of the lands aftera growth of -lover has bean grown upin elem, and ploughed It, are put to corn, but the larger portion are somd do winter ryo. Mr. C. mitied that he sowed lagt nummer and autuma irom 150 to 175 bushets of rye. Some of hiss ha of this grain looked very well, but others will not yield very large erapts. Mr. C. does not expert large cropy at present.llis obyet it to make these lan li pay for the anmual expordature upon them, and at the same tims heep them in a proiess of regular improrement. If a few years stall show that he can do thit $\rightarrow$ and we think lae will do it-then his method will be highly saluabo so hundreds and thousands of farmorss who aro doumed to work in sand and gravel."

Bownfa'sinatre--Mr. Greenc, befure seoing MIr. Ihomror's atatemetit in th; Cultivator, had purchased, sad appliei that method to the preparatien of tan back, and twe hes so doubt the compost will be acellent. He hink a the method excelleat for converting weeda, straw, cornstalks, Sce. into manure, but adviars the operator to commenca where be can have convemerit access to water, as conometable quantutes will bo required in tho pregarsion.

## RI:CIEES.

## Froms the Southern Pientera

The following are the recipes obtained in Maryland, to which I alleuded in my last:-
Ilecife of Dreimo Grefn.-Taka 1 lb. of oit vitrol, 2 oz. indego-put in a boule and lot it stam threu or fuar daya; shako it well every day t then boal a strong hiquor of hackory barke; diosolve 2 lbs. alum in water, put 6 llis. yara in the alum water, pour all the ingredsents inta the dye. put it all on the fite, and boll it well. The samo dse will then colour 6 tha. mere of a paler green. dfer it is dyed, and died, te meise bo wastied out wih good soft sonp.

To DieRen with Red Woon - 1 lb. red wood (ackei.) 2 ez. nlum, powdered; the red wood nust stand twent-four hours in river or spring sater : then boil is well, and after straining, mix vour alun and arguafortis, and boil it well for snveral bours. Mixx 1 oz. arquiforis, 1 oz. block an, in ntumbler, and ket it in tho sun shomt one hour. The above will colour 2 lbs of gara.Atter leing dried, wash out with soft soap.
 tartas, i lhe alum, the whole put in a kettle of coft waty; then puting the. clran yarn, and ball is wel; not to be wavied atier lieing dried. I saw wesseal very beaunful carpeta that wero dyed with hy shove recipes, and for brilhancy of colour, tiey would compare with the finest Turkey. I wa partucularly atruck with the substantesil aprearance of ono carpet, and on inquiry, waw inormed that tho filhng was entirely cow's hair, carded and spunty hand; the cost was but $n$ trifor, and a mono durablo loohing carpet I never ant. 1 thatik the whole tillag of cow's hase, all uhite, did not exceed two dallars for a wholo cmr pre. lersnas near a city would do well to tura alicir attemion se the manufacturiag this artucie, as it has gencrally born doemed uscful. A small yantuly of cow's hair, with she infersor and inaran wool, nould make a carpet that wisald outlate aty carpet sias cuuld bur bught; ard in theso hard timen, every thing that teads to ecowomy whuld receivo atiention. Politicians may rant an much as bhey please as 80 why and wherefure, and netulo the cause of hatd times among themanives, hut whenstiry cume to the remedy. they will find that rothing but indurtry and cconomy will afford relief.

## Yours, respretifully.

 GFOMTE W. CRAYEN.Fra kin. Mry 10, 3:13.

## Things worth kivowing.

## From Miss lestic's Atogarine.

To Extract Oit ok otizr Girfase.-Tike some common magnesma (not the calcined, but that which is made inso small squares,) scrapo off a portion, and rut it with jour finger on tha greasespros. Lat it rest half an hour, then brush it lightly off and rub on sume fresh magnesiu. Ifepeat this several times till the grea-e disuppears entirely. It is best to zub the magnesia on the wrong side of tho urticle.
Wilmington clay; which mny be had in small round balls, is excellenz for remuving grease-spots, however lurge. Scrage down asuficient quantity, and rub on the epot, letting it rest an hour ormore; thea brush it off, and continue to repest ahe procoss. Tho genuino Wilmington clay, pure and unmixed, is fur superior to uny of the greese-balls sold by the druggints.
If oil is spitt on a carpet, that part of the carpet must be lossened up, and the floor beneath as well scrubbed with warm soap and water and fuller's earth;"otheriiso tho grease will continue jet to come through. You may exiract some of the oil by washing that part of the carpet with cold water and a clath.-Then spreud over it a coating of scraped Wilmington clay, which should be renewed overy two or three hours. If gon have no Wif mington clay take cuthnum magnesia.

To removo spots of spermaceti, scrape off as rach as you can with a knife; then lay a thin soft white paper upon the spots, and press it with a warm iren l3y reapeating this you may draw out spermaceti. Afterwards rub the cloth, where sho spots have been, with some very soft brownsh paper.
To remove fresh paint from cloth, wipe it off immcdistely with another bit of wollen cloth Paint that has dried, can only bo removed by repeated rubbings with ferath spirits of turpentine put on in very small quamitios. If the turpentine is old, o: of bad qualiry, it will lenve a large marh of its own. After tho application of turpentine, Feep the articlo exposed to the open are till the smoll is entirely gone. Never clean glowes with aprentinc. Tho odour will remain about the teather so as to sender them improper to wear
A pot of wax may bo removed from cluth by holding ateadily over it, at the distanco of rather more than an inch, the end of a poker beated red bot. When the wax is all out, rub the place with very soft paper.

Curcifor what is caeted a Run-Round on the Fisoer.- Thas disease of the finger or too, which is commonly called a sun-zound, mny bo casily cured by a remedy so simplo that persons who have not tried it are geremally incredulous as to its efficacy. Tho firsz sympsums of the complaiat are heat. pain, swelliag, and redness at the top of the nash. The mhammation, if not checked vory soon, goes round the whule of the nail. causing intenso pain, nccompanted by a gathering of yollow matecr, wh ch, as soon as itapirest, slould
bo purctured or opencd by a needte, not waitiug till it has extended its progress; otherwise the finger will become excessively sote and intolezably painful, and the nail will eventually comeoff. dill this may be prevented at once, if as soman as the swelling and inflammation begin, the finger is lard on a rable, and the nail serateted all over (first lengthways, and then crossingy,) with the sharp point of a- pair of acissors or. of a penknifo, so as
co actatch up. the wholo eurface of tho nail, lenving it rough and white. This litule operation will not give the alightest pain, and we havo nover knuwn it fail in stopping the progress of the disease; all aymproms of which will disapucar by next dag.-
Wo binvo proved its cficncy $l$ ey experience, and Wo binvo proved its efficncy ly experience, and believe that every person why has tried it has found iten positivo cure, if dono beforo mater begims 20 anpear; and oven then it will generally suecoed if thas pait of she gatlicring wheh han assimed a yellow collur is firsi upened witha necdie and the nnil, afteratards thotoughly scratched all oecer with the proint of the scistors.

Cores os the Fest.-Tisere is, wo belicue, no permanant cuito for corria. Dat thry mny bo much, relievert hy putting on the carn a lisila luinp er dab of Indian meal mixed with cold water to the con sisecren uf soff musly; securing it by a thia sufi slifi of ras wousd round that twe. If need not be
tied on by $n$ thread. as the neighbouring toe will kerp it in place. Tho atocking and shoe may be worn as usual. In nbout an huur take off the Indian men!, cut carefully with sharp scizzurs the top uf the corn, which will bu found much softened, und then renew the application or poultice whith Fresh meal and wuter confined by a clemn rag. Repeat ic olmost overy hour during thu day (or for several days) till the corn has thus been entirely softened all through, drawn to the surface, und then rimmed uf: We know ehis to be a good remedy if sou persevere in it for two or three days. The application of the wet Indian meal is cooling and pleasant.
Corns between the toes are often very trouble. some and exceedingly painfil; and aro frequently so situated as to be inaccessible to the uscul reme dies. Wetting them with hartshornor with lemun juice will, in most casc's, curo them for a time.
A small slip of wadding put round a too that has a corn, and renewed every day, will give it rauch case by interposing its softness between the corn and the pressure of the stocking and shoe.

Tonemote 4 Want.-Touch it wihh a clean pen dipped in a little a rua-fortis. By repeating this dally, the wart will crumble, and come of without pain or trouble. It is an excellent and sufu re medy for hard, horny, callons, whitish warts: but if the wart is red, fleshy, and sore to the touch do not apply the equa.fortis.
FuEsct arethod of washisc colored silk Chavats, Sifiwis, 太c.-Make a nuxiure in a furge flat dish of the following artacles-A large teble spoonful of soft suap. of of hard brown suap shaved fire: (white soap will not do, a amall tea spoonful of strained honey, and a pitat of spirits of wine. Have ready a large brush (a cloilus.brush for instance) made perfectly clean. Lay the silk on a boars, or on an ironing table, stretching it evenly, and securing it ia its place with weaghes yet on its edges. Then dip the brush into the mixture, and with is goall over tho silk, lengthways of the trxture: beginning at that part of the silk wheh is loast seend when worn; and tryune a hate at a timo till you have ascertained the effect. If you find thut itic liquid ctanges the color of the silk, weaken ie by adding moru spirits of wine.
Having gone carefully over the whole of the arricle, dip it up and down, in a bucket of clear water; but do not squeeze or wring it. Hepeat this through another clear water, and then through n thind. Afterwards tpread it on a lino to dry but without eny sucezing or wringing. Let it dry elowly. While still damp, take it down; pull it and stretch it even, then soll or fold it up, and let it reat a few minutes. Have irons rcady, and as in chango the culur.
The ghove patgtity of tho washing mixture is sufficieg for oblouphalf a duzen salk handkerchefis, one shay, or "wo acorfs if they are nut very long If there in fringe on the scatls it is best to take it off, nad replajipjewath new : or clso to sather the


Gentlemen's sitk or chaly crasas iney ho way to look vers ucll washed in this manaer. Hiwbons also, if they ate thick asd rich. Indeed whatever is wathed hy atis process must be of very geod quality. A foulard or a plaid silk dress may be wnathed in this ray, proviled is in first raken entirely apart ; $3 x$ oprons also. We hava seen nricices washed ty this process, and caa asjuro our resders that it is a good one.
This is also a good method of washing blond -using a sufe apronge, instead of a brash.- When drys lay the blund in lons fulds, withn a large:
nient of white paper, ánit piess it fur a few dase whent of white paper, and piess it fur a few days n a large book, but do not iron is.
In puting away ribbons or silks, wrap or fold them in curse bruwn paper, which, as it contatne portion of tar or turpentine, will preserne she turning sclluw. Thu chluride of limo usedion manufaciuring white paper senders is improperto kerp silks in, nt it frequeatly causes them to apot, or to change color.
To Clean Lnoring-Glas385.-Tako a nowa. paper, or mpare of onc, accurding to the size of the glasp. Fuld it small, and dip is into a basin of clean cold water. Whe: thuroughly uet, iquecze it out in guar hasdar gou would asponge, und then
sub it hard all over tho face of tho glass; taking ense that it is not so wet as to rundown in streams. In fact, the papar must be only completely moistened or dnmped all through. After the glass has been well rubhed with the wet paper, let it rest a few minuten a and then go over it with a freshdry newspapir (folded small in your hand) till is luoks clear and bright-which it will almost immediately; and with no farther trouble.

This method (simplo as it is) is the best and most expeditious for cleaning mirrors, and a wilt bu found so on trial-giving a clearness and polishs that can bo produced by no other process. It is equally convenient, opecdy, and effective. Tho mside of window panes may bo cleaned in this innnner, to look beautifully clear; the windows being first washeil on the outside. Also, the glasses of spectacles, Sc. The glass globo of an astral lamp may be cleaned with newspaper in the above manner.
Preserved Citron Melons.-Tuko some fino citron melons; pare, core, and cut them into long slices. Then weigh them; and to every six pounds of melon allow six pounds of the best loaf sugar, and tho juice and yellow rind (pared off very thin) of four large fresh lemons; alsu half a pound of raceginger.
Put the slices of lemon into preserving keltle $;$ cover them withstrong alum-water, and boil them half on hour, or longer, if they do not look quito clear. Then drain them, lay them in a broad vessel of cold uater, cover them, and lez them stand all nighr In the murning tee the race.ginger in a thin muslin cloth, and boil it in thrco pinis of clear pump or spring water zill the water is highly flasoured. Then take out the bag of ginger. Having broken up the sugar, put it into a clean preserving kettle, and pour the ginger water over it. Whan the sugar has all melted, set is over the fire, put it in the yellow prel of the lemons, and boil alid skim it thll no moro scum rises. Then removo the lemon peet, put in the sliced citrons, and the juice of the lemons, and boil them in the syrup till the shces are all quite transparent, but not till thoy break. When dune, put the citrons and syrupinto a large tureen, set it in a dry, cool, dark place, and leave it uacovered for two or three days, till all the watery paricles have exhaled. Afterwards put tho slices carefully into wide-mouthed glass jars, and gently pour in the syrup. Lay inside of each jar upon the surface of the syrup a double whito tissue paper, cut exacily to fit, and then close the lids of che jars. This will bo found a delicious swect meat, equal to uny hrought from tho West Indics, and as well work doing. We recommend it lighly.
To sakit good Vinecalr.-Take five gallons of soft clear water, two quarts of whiskey, two quarts of Wess Indian molasses, and half a piat of the lvest fresh jenst. Lay a sheet of white foolscap papur ut thu butuom of a very clean kes, and pus in tho mixture. l'lace it in the sun the first warm wenther in Jone; and in six wreks it will be fit for uso. If you mahe it in winter, keep it in a place where there is a coul firo or a woud-stove. I'ut in the bung loowely, and do nut stop it tight (ill tho fermenation of he vixegar is over.
Much of the vinegar that is now offered for sale, is excessively nad disagrecably sharp, overpowering the casto of everyitung wath whach it is comlined. Thas vinegar is delenernous in its ffects athd should never be used. Oysters and pickled vegetables havo been enticely destmyed or eaten up by it in $n$ few bours, so that nothing of them was left buta few parucies flonting in the vioegar. Is has lancily become sus difficult to procure, froc the shops, such vinesar as sa wholerome and palaenble, that fumilies would do well to malio theix owin. Thers are many recerpts for home made vanegnr ; all differen, but most of them good: and at lease free from tho pernicious articles which are now too frequently eingloyed in making it for stle.

Cimar asid Derabref Paset. To ono gallon of gooil mith, mild two duzen CeEs, and one guvad uhal a liaif of loaf augnt-then udd sifted slacked limio to bring it un a yroper consistency. To bo put on the asme dag, It will be well to run tho whido throagh a paine miil, ur utherwiso tio see that the coarser particles of the lime are well dosulved.

## FORMS OF CATMLE,

From 'The Fiurners' Calinet.
Messere. Fidtur:, - Yuar correspondent, W 1) 11 , on pase 2tion, of the preene wol of The Cabuct, ashes 11 :ome of. juar teaters comat fumsh the must ayproned chatamical turms of catte, puntentat! the match cun?
Some yeas ago, 1 wrove for The Ricportel a piece on this sulyect, whach was apmbibhent in The Frankin Farmen, of Foh $1 \times 34$
 request, I hath tramerne a purt of at for that
 may te sugesested. In mathog the tulturas observations, I arknowledge my ublegatans tw many wrotes; but none to the genteanum, Indama, who. a tew seara de", bulusical the,
 to an agricultural paper of that State, is lus own productom.
The two procipal objects in rousmg cattle appear to be bect and math. And as certan! forms are found to puseesis parterutar qualture, I shath proceed to grae those lomen, and the desirable qualues generadly connected walh them.
The heal should be small-the muzale finethe conntenance calm - herns lime nech light particularly where it juns the head -rincs: wide, and projecting well before the lege: shoulders moderately broad at lop, and the points weil in, so :so to leave no hollows helnmd them when the anmat is moderately jat-the girth belind the shoulders showld be deep, so that if the carcase should be cut across here, the section would be an cllapo, bhat at both ends-lack strught, whe ased fat rilis broand, and the space between :hem , wat the hurs:ath - lime full and hears -inelly well heid inhups globular, wate acers and un at letel wath the buck-twist wade, ami the seata the
 well down to the fivek - ilac lerso vaught, shon jombed, clean, fine lromed, and standus wide apart-tanl broas towants the the, tugermen down small towards the twitum - berkly loug, and jomed smonthly to the yuariers before amd tehund-stim sott inad chasti-veans hatge.
I shall now proceed to show the admantages of the above form. The rectinn whe the head ahould be small and muskle finc, $-a$ sath heal facilitates birth, and so the heal is comepeocl mostly of bene, athons, himase of Sone, the alvantages oi whach a batay untrecated by the gracier, who has learued that na ammal fattens kuadly that laths them. Cadmnes of comnemance atso denotes: dapkistuon to be contented, and is generatly posecesed by a gentle mileh cow, and aldondennits an anmail that will faten e:sily: The light neek wilt
 get much tress roare ment mo urh; shot neek
generally denotes a thrifi, hanty anmmal long, or ewc-ncek, thait ji, me fallag of fromin the ton of shouhiers-dmotes a tender conslitution.
The wide breast and decp iodry, give areation room for the luuss, the importhuce of which will the seen presenily. A sruaght brok is indicative of strength; a weak amual is geme mally hunutbacked; pmor kerpias will preduce these defic:encics in a cali :haid mats at hres well formed. The stricgat lack : dso denotes aphitude to faten. Much deperde upm the resor

 Jungs nccupy all the curare inush the rite, in it is unportaint that the yore winuth lee lari" For this recorn, the rals should yimall with. te deep, and evemal well buck to the hijnThe full, heayy tlank of the cow, is a mas certait: indicution oi a gere! uather, bis, con:
neeted with latge rean, partecularly those on the stde of the bells, genctadly called the motk rcias, is a certain imhleation of a goonl mileh cow. The mulk is fomed from that portinn of bheod that cuculates on the evtermal pate of the
 lation, so it is madatace of a gmox malker The bull wath a deep thenk sem ratly pedaces stol matk start The helly being neatly trught. shan - How liw phatio of whech it is composed are thich and stmon;-when the

 santare to the hutder, whell the anmal is h.lled, an a alls minh to the wegght of meat chobuhar hips hohd much meat, and it is much cabir put upon theme han an thow that are shary Wite hips gree a hromer lam and more capact!! to the pelus. which is of much ungrance in the conv, binas the calf mute rom. The hind-puater that is long foom the hip to the rmap, and straight with the bach, will weigh yery heat, a aud for the sman reacon the twan (hat is the space between the theghs) Shoura le wite sud well tilled up. whoh gives reat Weght to we upper hart of the thygh. shusht legs are now dhe fashom, dullare stid to the s:romger than cruohed mes. Clean legs,
 and such annuts ate condy ken, and when thut math, lutien a in. A short legred :analai doo, as mote candi hepl and fattened, tham tous legered ones. When the thishet and tust are lage, the loge will be wade apart.
I somewhat douht the propriely of insisting uyou a long boxy; but a goox! amimal twith a lous body, will weigh mach heavier than one Withat shm lnoly; lut at is merh casier to hreed soral antmais with short toilics. There is a commual temenes in the phance of the Iong Inxded ammal to tie marrow ma the breast, which is not the case with the horter amanal. Sod us a weneral rule, the shorter aumat fat-tem- math more cand. Huweser, if the widh of the carrass can be lept up, a long body 15 ta be prefersed. Ruand hombies were Snmerly the fixian, but the decp bondy is now thought to te decadedy bes'. 'The hanbs do not jnin to the boty of the round auimal, is sneothly as to the ova, there generally being a hullow becinad the shomber; neuther is the cancass as heavy. Round amaals too generally carry the fat mpon the surface, and do not mix it an
 ts one of the must ccrtan teets of an ampal that wh thaten hamth. An anmad may guve de fatest form .und due most pertect ynimetry,

 an turn, ind still wal fatten \&imbly:
$\because$ fechnr," is ment crrtina seasations produced b) "touchune or hadibas" an animal; the csuce !exmed of wheh. is the sntheres amd c! whry nithe that The che :14ty is accat--anaed ly the quantay of cellular substance (that is, late clastic hags to hold fat) that is phacel luincen the shin and the festh. As thas collular suhtingec can be discovered by an experacheed "handley," even diwn among the muscles (lean'flesh), so he can tell whelher an ammal wall faten in such parts, and whether the fat wall be well mixed with the lean. But his knowledge is not to be ohtaned without mach pradice.
I have above descrined the most approved iorm fur cattle, and lise garn the reauns
 re:evon not yet mentuned. Whan the cow bas

 heary, i,ut well carty her weight upon the mose vain.ille prats. For it is hiseith. that

upmon half the food necessary to fatten an inforior animal.
I have sitil uothing about the shape of the whlicr and tcots, as these can the beet judiged of when the cow is in milk; and then the bast prong is melkinghcr. Stull it may be serviceable to sil, the wdder should rather be round than lons; shomil lay wip close to the bxxly; should xpread torwarl-teats ahout equally distant, of monderate size, say about two Inches in diameter, next the udider, and taper down to the promt, whath shath be blunt rather than sharp: they should be from four to nix inchus long the udder, when empty, shonld be grailly reduced in swe, and the, Atin should condract so as not to leave it flabby-it should net fect at thas time hand and knotty, as this would mdicate that it inglit become thickened and scarrhoms, so as to mahe the cow liable wo mithumathems, and probably lose of some of the quauters.

## SAMUEL D. MARTIN.

## Colby walle, Kentuck; April 3, 1843.

CORN STALL SUGAR AND MOLASSES.

## To the Editore of the Trestme Smen Agrioulturiol

In comphance with a request set forth in tho list number of the Algriculturist, I now furniah yon with such informatum as I possess on the Eubject of makwr Sugar and Molases from the common corn-stalk, wheh, if you deem of suticuent mportance, you may publish in your valuable journal.

## hespectfully, your obed Servant,

WAI II. DEADERICK.
Having during these hard times felt somewhat :cestuve under a heavy tax imposed by the necesstly of providung for the dnuly consumption of a large family, and sumulated by the Easty of Mir. Weltb, on the subject of manufacturng Sugar from Corn stalks, i deterramed last summer to gove the project as fair. trai as my cmure incxperience in the businese would pernit. Accortingly, the construction of a smatl mill, with two rollers about. fifteen melhes in diameter, was procured, and the firut eflort made with stalks from wheh the corn haud been taken for the purpose of conking. The juice, after standing half an hour to setule, was deposited in ab bell metal ketule to bont, and when hot, a table spmonful of lime water was aulled for each gadlon of juicebefore it hecame too thack for the purpose, it was :马ran struncd and carefully skimmed during tive whole process of the bouling. When broiled down to the point of crystallization which is macated when a portion taken whilst wam between the thumb and forefinger, can le drawn into a thread from a half to an inch in lengih, it was removed from the fire, and a small quantity set aside far granulation. In ahom thrce day:, this process commenced, and after perhaps ene suath part had crystalized, it. ceased and would proceed no further... The nexi trial was from stulke, the com on minem had just lecome too hard for table use." In like manmer partions were sec asikle, and the neat day gramulaton commenced, and twiec as much underwent thes process as in the first intance. The thurd essinj was with stalks, the com on wheh had nearly become hard enough ior grmating. The sy rup or molases oblined from these, was greatly inferior to the two first, and althoush :a pari of it was kept sereral months, maer cumcel any tendency to cry:4mlize. It would thus apyear, that the age of the stadk most co.rgchial to tie stranulating proceme. is when thec curn in just becoming too hand for the gurpose of cowhing. Howetcr, it will regure further caperience, pusitively to determane thas questoun. The syrup thas procurad,

pronounced superior without exception, by numerote persons who partook of it, to cithir imported molasses or homey. It presented uo oller taste than that of a rich and luwions sireet, wholly free from any stange or unpleasant flavor, such as appertimes to the arteles just named. The sugar obtamed, did not ether in appearance or taste, duffer more Irom Orleans sugar, than different lots of thes artucle do from each other. The modispouition ot the ky rup to granulate fully, may perhap's be decmed da. couraging. But doubles inture eyproence will develop some method to obviate ihs diticulty. Nevertheless be that mather as it may, it will now be shown that thas ohyection is not sufficiently formidable to prevent the substitution even of the com stalk syrup for Iounsama Surar and Molasses. Sundry vistors at varrous times to the family of the writer, partook of their Coffee clandestincly swreetened wath this syrup, and on bempapprised of the deception, acknowledged that they did not perceive or suspect that it was sweetened with any other article, than the one in common use for this purpose.
It is fair, however, to say that when the attention was directed to the case, the Coffee could be perceived to have a slighty acidulous laste just as if the cream used in it was berinning to turn kour. This trivial peculiarity, however, of the syrup, was not considered oijectionable by any pereon. The preferable and most convenient mode, however, is to add the syrup, (about a table spooniul for cach individual who may be expected to partake) to the coffee when firet made, and boil it all together. The taste of the coffee managed in this way, cannot be distinguislied from that swectened with the best Orleans sagar. Suffice it to say, that the syrup fur more than a month was used in the writers family, as a substatute for sugar, whith entre satsfaction It was tred in making preserves, which I believe were just as good as if made with brown Sugar. Sweet cakes wicre made at the sume time with both articles, and no one could tell which were of the sugar and which of the molases. But be it remembered that, in order to realize these,
the article must be carefully made in the way the article must be carefully made in the way indicated above.
One hundred lange comstalks will afford ten or cleven gallons of juice, which, when boiled down to the point of crystalization, will yield one gallon of syrup. One acre of ground drilled with com, one foot apart in rows three, fect asumder, will give about 14,000 stalks. Of coure those (at 100 stalks per mallon) would yich 140 gallons of syrup suitable for any of ife purposes for which brown sumar is uyed. If intended for molaves, it necd not be boiled
down so thick, and will probably make 160 or 70 gallons.
The whole busines of gathering, strippinf, and grinting the stalk, cam be performed by boys from seven and cight to twelve or tharteen years of age.". The experiments recited alove assuredly justify the following conclusoons, to wit: Any individual powsesing only a rmall portion of land, can, wth a little libour and no expense, atter the mill ssonce crected, supply has famly with sugar amd molasies. No real necessity custs for Temesse, or any oher corn-growing country, to inport a single horshend of sugar or barrel of molacess, inasmuch as the first is cqual and the second superior to the correspondine articles of Loulisinna production, can be oltaned from the com etalk with half the latour required to produce them from the sugar canc. Agounst the next seraon, I design to have constructed a more efficient mill with thrce rollers, say 20 molhes in diameter, and shatl thencetorward consuder myself released from the cexpendature complaned of in the commentemeut of this anicle.

## From the Southern (Ges.) Culthator.

SMU'N WNHEAT:
Stanfordsville, Puthan Co., Juty 28, 1843.
Mesurs. Edirons:- Your guger of the 19 th nat hex just come to hand, in whech I hind a commumcation from jour correspment " 11 ." of Athens, givis some account of the bencit renulturg from roakur need wheat in a soluton of bluestone or strong brine, and rolling in rlacked lime, to which I winh to add my experience. And I will here state, that the lenefits I have enjoyed hy soakng my secd wheat in a solution of bluestone have been derned fiom readag agricultural papero-my advantages Irom thes one pece of imiormation has been worth more to me than all the money I have ever pad tor agricultural lapers.
Year before last I soaked 15 bushels of my aced wheat in a solution of blucetone, and sowed it in a fiell as far as at would go; there being 6 or 8 acres of the field left, which were sown with the same kind of wheat, the land in about the same order, and the wheat equally as well chenged, but had not been soaked. The result was, the wheat that was soaked was of good quality and clear from bhat or smut; that jait ot the field nowed with the unsuated wheat, had a consderable quantity of smat m it. I waked my seed wheat asain last year ma the sane kind ot solution, and lave a mee crop of wheat with notag grain of smut in it that I have seen. I did not roll my what atter soaking in lime or any thing else, and several of my neighbors tred the experment of soaking ther eced wheat last jear with entue succes.
The quantily of bluestone used in this settlement is one pound to every five bushels of wheat, and the plan has teen to put the wheat in soak m the cening tor the next day's sowmg; reserving the water to put the next wheat in, and then add enough more water with tha proporuon of bluestone to cover the wheat. The beat plan is to diseolve the buestone in a mall quanty of hot water, as it is hard to disolve in cold water. If the weather should Lecome wet and any of the scaked wheat not sowed, it may be spread in an out house without any muny thl the ground gets in the right order for suling again. I =oalied some of my sed wheat layt year 6 or 8 days before it was sowed. I have no doubt but rolling the wheat n lime aiter it is soaked is an alvantage, especially when the seed wheat is not as thoroughty ripe as it should le, or the ground the least out of order, and thes when it is 100 wet to be perfectly trable.
I would advese all wheat growers who are roubled with smut, to try thas expriment or a smaliar one. The cost of a tral is but trifues as buestune cosis only 20 to 25 cents per nund.
In concluding this communication, I do most incerely adviec all wheat gowers tohave then yed wheat thoroughly npe, and then effectually cleaned with a good seive, (atter being fauned.) letuing all the emall grums pass through the seive, and tahe all the loght grams that rise on the top off wath the hand. Should there be any cockle m the whent, by usmg a enve of the rght descrptoon, it will in a tew years le entinely eradicated.

I am, sirs, yours respectully,

## JOHN FARRRi.

A man of much presince of mind, living near Iberdecn, heard a thiet breakang into his house in tho nigbl. Ho reactied to a bitule of soda water on tho mantelpiece, ard as sown as tho fetlow'r head was visille, took deiliberace amm ard cut the string. Tho cork hit him in the face; sad the thef thinking it blool, foll on his hnees and roarcd for mercy. Ho was suffersd to deprart on yromben f numeminient. tisld."

The following is an extract of a Report of the Sunbury Agricultural Society, for the year 1842:
"Grat prejudice has existed againat planting Indian Corn of late years, owing, it has been alleged, to tho great difference in tho late and furmer seaqona ; but the great cause of the failares of the Corn crop hos bren ouing more to tho neplected mnnner of culturo than to the seasons. Formerly when the Intervales were new and rieh tho Corn grew luxuriantly, but the culture of late years has deteriorated the soil.
"An old respectable farmer in Sbeffield afirme that he has never falled in rasing Corn but once -another aged farmer in that Purish latoly affirnod that ho never failed; sud among the competitors of this Suciety, four have exceeded twenty bushels from a quarter of an aero.
"Tho first premium for Corn was for 234 lushels, and the second for 22 bushels from the yuarter secto. Tho greatast quantity of potatuen from half an acre was 251 bustielu, and of turnipo, 350 bushels.
"The mast succensful mode of cultivating corn, potatees, and turnips, has beon that of plowing
de $l$ y or sod ground in the autumn, sud repeatediy cross-plawing in the spring until tho soil is pulvorized and then spreading on the manure.
"The quantity of buter from one Cow in four week was 2931 lbs., which fully proves the great benclit of careful feeding and of selecting a good bred of catto for milk.
"The fow enterprising farmers who ate endenvoring to improve on the former practice of Agriculcure, it ia to be hoped will have a salutary is fuence on thoso around them, and thereby promote improvement in that acience whith has been so little studied by many farmers.
"But much romains still to be effected in remoring prejudice and producing reform. There are sull allotments of land, containing sive hundred acres each, which have be. nsouled oroccupied from 50 to 70 years, and which bave not now 30 acror cultivated, although in the centre of the Province and bounded on the besutiful River Saint Jokn within ten miles of Fredercton. Thousends of scres of valuable slluvial in this county aro atill unreclaimed- many acres of old wornout meadow and, which has been annually mowed in the summer and pastured in the fall for fify years, (without ven having leen ploughed in that time,) and which though naturally a superior soll, now produces a very light crop. And we may still seo the barnyard drained ncross the highnay into the river, to tho annoyance of the traveller and loss of tha owner.
"The great improvement in the construction of agricultural implements and the improved skill in the uso of them cannot fail to bu beneficial. The unmense beds of natural manure with which thls courty alounds, cannot bo excelled in any county in the Province, and when all the land in the countr fis for cultuvation is cleared of its wood, there will be little of forest leff for woud.
"That agricultum is the mort natural, ugeful, healhy, and religious occupation, few will deny; and that it is hikely to prove the surest source of acalth, independence and comfort need nut bo doubted. And it nust be admuted that it is of great importance that it alould be fostered with care, aided wilh zeal and fixed upon the beas and surest syatem."
" Wben we learn from history of the hard winters which used to reign in England, when the river Themes, like tio St. John, used to serve for conches o 1 ravel on; and that the Englash emigranta upom their firre landing upon the coast of the Unitud States, (where snow and hard frost are seldow expervenced,) bad to encuunter all tho severity of a Now Brunswick wiater, wo have good reason to telicve that there will also be an inprovement in to climte of this Province, and we are the more ercouraged to expect thio from the matigated soverity of the winters within the last forty years.
As useful mernbers of society we should theroncourage agucstture, and as loyal subjocts wo ugbt not to r.eglect $1 t$, remembering that the greon berself is supperted by tho labors of the

Calvin l. hatheway,
Secrulary and Ticasmres.

TORONTO MARKETS. Scplemher 14, 18.43.


## TRAYELLING AGENTS WAHED.

T
E EDITOR OF THE BRITISH AMEIICAN CULTIVATOR is dessrous of procuring the aervices of aeveral competent porsons to ca:vass tho l'rovince in the capacity of Traveleino Agenta for that Journal. Nome peed mako epplication but thoso who can gire taquestionablo referonces.

ETP A very liberal reto of diseount will be given.

August, 1843.

## CARDING MACHINES.

THE SUBSCIIIBEIL begs leavo toacquaint hia friends and tho public in general, that in addition to his Euundry and Erench Burr Mill Stune Factory, he has engaged Archelaus Tupper, who is an experienced Dechamst, tu mako all hinds of Cardina Machines, of the latest and most apgroved construction; ho has been engaged fur awenty years in the United States, and also in Canaja, and bas a thursugh koowledge of alt kinds of Machinery, nsmely:-Duable and Single Carding Machines, P'schers, Condenser, Jachn, Billeys and Jinney. Also, Brosd and Narrow 2ooms, Shearing Miechines, and Gifge, Napping and Teasling; Stores fur heating Press phates, Preas Screws. Also, Grinding Shearing Mu.chine Blades; Fulling Aill Cranks, Se., and all kinds of Grist and Saw Mill Castirgs made to order, Wrought and Cast Iron Cooking and PlateStoves, Fancy Stoves of all kinds: Also, Pluughs of different patterns; Mill Serews of all kinds; and Damesil Irons, Butting Clothy, of the best Dutch Anker Brand, warranted of the best quality; Mill Stones of will sizes, nlways on hand and to order. Also, all the other berein-mentioned urticles always en bard and for sale by the Sabscriber, at ha Fovsoris, on Yonge Strett, as chrap as they can be obtansed at any other place.

CHIRTSTOPHER ELZIOT.
Toronta, Augual 7.1813

## FULL BRED BEIRSMIRE HUGS FOR SALE.

TTHE Subscriber begs to acquaint tbe public, that bo will affer fur Sale, by Paklic Auction, the whole of bis valuable Siock of BFRLSSHIRE: HOGS, on the llth of Uctober noxt at the Agricultural Show greunds, new Gaol. Tho Sale to commence at the close of the Exhibitiso.

JOHN SEVERN.
Toronto, September 15, 1013.

##  <br> OFTHE

HO पE DISTRTOT
AGRICULTURALSOCIETE.
under tilf patronige of ins excellency THE GOVEILNOR - GENERAL.

THE AUTUMN FAIR AND FAT CATTLE SHUW will be held upan Wr:DNESDAY, the Fileventh day of OCTOBER, 1843, at the CITY OF TORONTO, on the enclosed space in front of the NEIV JAIL AND COURT HOUSE:, where the Society will award tho undermentioned I'remiums for tho following Stock, So.:-


HOPS, groten axd preparea wilhin the Home District,
during the present ycar:
One Iockel ..........................
$50<0 \quad 20$
An additional Premium of Fire Pounds wili bo given to any Member of the Society who shall bring for sale che largest quantity of Llops, grown and prepared by himeelf, within the Province, during the present year.
WHEAT, not less than 2 busheis, the grorth of the presest ycar:
Autumn White
$\begin{array}{ll}15 & 10 \\ 15 & 10\end{array}$
Spring Wheat $\qquad$

## RULESAND REGULATIONS

 yOR THE DAY.1. As an encoursgement to thoso enterprizing Fanners who have already mported Stock into this Provinco, and as an inducement to others to follow thear example,-af any anunal, entered for compention, ke deemed by the Judges worthy of the hirst prize, and af the owner of the same prove, so the satisfaction of the Jedges, chat such specimen of Stuck bas been imported from Great Britain shace the last October fiarr, he shall, upon producing certuficates of tho ago and sreed of the anmal, bo enulued to tho thanks of the Society, and rece:ve dorble the amount of tho Premum whect would otherwise bs awarded.
2. The Secretary, George D. Wells, Enquire, will bo in attendance at the Court House, at 10 o'clock, on tho muruing of che extibition for the purpose of onterag tho application fur Premiums, and lssaing sickels to competthors. At 12 vicluck dw Sucretery's lises with be cluscd afor wheth hour no easry can be made.
3. No person shall bo allowed to competa fur any of the ubove Piemiums whless ho shall bave been a member of shis Socicty fur at least four months previous to tho day uf Eair, or pay hosum of 15 s . on entering his Stock.
1 Tho Suciely have entered into such arrange. ments in the selection und appointment of Juiges as to grevent any idez of partialuy.
4. No person or porsons, other thats the Officers of the Socicty, must interfire with tio Judget when in the discharge of their duties by cotiversation or otherwise.
5. In order to prevons nay idea of partiality in awarding tho prizes, each competitor for a promium shall be furnished by the Secretary with a numerical ticket, to bo fostened to the auinal ontered for a prize.
7 Tho Stock in the Show Yard will not, ontit the Premiums are awarded be known to tho Judge" by the names of the Owners or Graziers, but solely by the tickel and numbere corrospending to the Secretasy's liat.
6. The Suck to be on the ground by 10 o'clock in the morning, and remain tull 3 o'clock, r.n. At 12 o'clock, the Judges will commenco their duties of inspection and decision. The names of the sua cessful candidaces-tho P'remians they shal! bare received, and what adjudged, will be publicly ane nounced by the I'resident, at Mr. Smitu's, Farmb er's Arms, immediately after the dinner, and afterwards published in several newspapers of the District
7. The Fat Cattlo and Sheep must be offered for salo to the Butchera before any promium for the asme shall be awarded to their owners.
8. Members of the Society who may fool denirous of buying ary of the Shoep receiving a prixo are entided untal after 5 o'clock of the day of the Fair, to purchase them from their owners at the following rates in cayh, viz. Imported Sheep, £25 each; Sheep bred in the Province, $\pm 12$ 10s. each.
N. B.-Inmediately after tho Fair, at 3 o'clock, P. M., will be offered forsale, at Public Auction, at a credit of twelve monthe, on improved endorsed notes. Thirty Full-Blooded Leicester Sheop, an Ayrshira Bull, imported; and a large number of very superior Horses and Catle will also be offored fur sale, at Public Auction, if not previously disposed of.

GEORGE DUPONT WELLS. Secrelary, H. D.A.S.

## Davesport, near Toronto,

September 13, 1943.
N. B.-Tickets for the Dinner (to be preparad by Mr. Thomas Smith, Farmer's Arma), ean be procured from Mr. A:kioson, Mr. Thomas Smith, and at several of the principal Hotels ia the City of Toronto.

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WP Mir. Enos Folsom is now on a tour through the Gore, Niogara, and Brock Distrirtn; and is guthorived no collect Subscriptions for The British Ancrican Cullivalor.
Published Monthly. W. G. EDMUNDSON, Editor and I'roprictor, to whom all Orders and Communications must bo addressed (postpaid). Terms:-One Doilar, per annum, paytale invariobly in adraxce.

Pranted by GEORGE BROW'N, at the Brancr
Office, No. 142, King Slrect.

