The Institute has attempted to obtain the best original copy available for filming. Features of this copy which may be bibliographically unique, which may alter any of the images in the reproduction. or which may significantly change the usual method of filming, are checked below.


Coloured covers/
Couverture de couleur


Covers damaged/
Couverture endommagée
$\square$ Covers restored and/or laminated/
Couverture restaurée et/ou pelliculée
Cover title missing/
Le titre de couverture manque
Coloured maps/
Cartes géographiques en couleur


Coloured ink (i.e. other than blue or black)/
Encre de couleur (i.e. autre que bleue ou noire)


Coloured plates and/or illustrations/
Planches et/ou illustrations en coulour

Bound with other material/
Relid avec d'autres documents

Tight binding may cause shadows or distortion along interior margin/
Lare liure serrée pout causer de l'ombre ou de la distorsion le long de la marge intériedre

Blank leaves added during restoraticn may appear within the text. Whenever possible, these have been omitted from filming/ Il se peut que certaines pages blanches ajoutees lors d'une restauration apparaissent dans le texte. mais. lorsque cela était possible. ces pages noont pas étó filmées.

Additional comments:/
Continuous pagination.

L'Institut a microfilmé le meilleur exemplaire qu'il lui a été possible de se procurer. Les détails de cet exemplaire qui sont peut-etre uniques du point de vue bibliographique, qui peuvent modifier une image reproduite. ou qui peuvent exiger une modification dans la méthode normale de filmage sont indiqués ci-dessous.

$\square$
Coloured pages/
Pages de couleur
Pages damaged/
Pages endommagèes


Pages restored and/or laminated/
Pages restaurėes et/ou pelliculees


Pages discoloured. stained or foxed/
Pages décolorées, tachetées ou piquèes
Pages detached/
Pages détachèes

Showthrough/
Transparence

Quality of print varies/
Qualité inégale de l'impression

Includes supplementary material/
Comprend du ma:ériel supplémentaire
$\square$ Only edition available/
Seule édition disponible

Pages wholly or partially obscured by errata slips. tissues. etc.. have been refilmed to ensure the best possible image/
Les pages totalement ou partiellement obscurcies par un feuillet d'errata, une pelure. etc.. crit été filmées à nouveau de facon à obtenir la meilleure image possible.

This item is filmed at the reduction ratio checked below/
Ce document est filmé au taux de réduction indiqué ci-dessous.


"dGRICULTURE NOX ONLY GTVES NICHES TO A NATION, BVT THE ONLT RICHES SHE CAM CALL HER OWN."-Dr. JohnSOn.

## Yor. 2.



## 

"Agrieviture is the great art whoh eucy gubermmen, diffe to propect, every proprletior of hands to prachen, andeymy inquiter mito natire smptorc." - İr. Ifohnson
-TORONTO, MARCH, $1 \times 43$.

## 4. NORMAL SCHOOLS.

A series of resolutions passed at a respectable meetung of the mhabitants of the village of Newmarket and netghhoulhood wil be seen on another page of the nomber, the showed object of which are to establinh a Branual Labour School, for the nstensble purpose of properiy preparing that class on the young men of the romtry, who hase a desire th take charye of the common schools ander the New School Act.
It is a fact, ton notorious to be called int, question, that the persons who have the charge of four-fithe of the common rchouls of thes country are remarkably illiterate, and in many cases are uiqualuied to crinmumeate intelligently the tementars praneples of the Eturhin language. That resalts detrmentat to the ising generation and the prosperity of the conntry at large, should follow from the euployment "i such agents, who pretend t" leach "the young of eas how to shoot," should not be a matter of astonipliment.
The Canadian farmers complan loudiy at the indifference manatesied by their legislators towards their mierests: We assure them that such will be the case, so long as they are represented in larlament by men of the learned professtons, who are not interested particularly in having the produce of the farm ratung at prices which reamue--Tato the producer. Hf $^{2} \mathrm{c}$ hiow of no means.

TORONTO, MARCII, 1843.
No. 3.
so cheap, pracuical, and well adapted to the crrcumstainces of thas mfant colony, in remowng the stumoling blocks whech mpede the pathray to useful and practucal knowlrige bemg $1 m_{\text {rarted }}$ to the young men of this culntry, as that of an efficient manufac. tury for common schoul teachers. We con. cene that Norman Schools, on the manual
lapour systen maght be mitrodued ad esn lapour systen might be nitroduced and es. tabhined on a phan smalar to that latd down in the resolutions referred to, at a ver: trifting evpense to the country, which would ultmately ramaye the hadraner spoken of, and preparothe people of the Province for the thll eajoymen of their free mstitutions.
The dea of Manual Labour Schools producng such a great amount of groud, may be consedered ridiculous in the extreme by
men of narrow mands, or thoce who a men of narrow minds, or thoce who cat only speak of colleges and umueraties as msututions suitable to prepare men tor the hugher walks of he; but to such we would cay, that many of the broghtest mon of the
present age are what are generally styled present are are what are generally styled selitaught, and a number of the most emb-
nent tatemen of th's country were, only a fer yeark suce, figuring an the common circles of society.

Very frequently have wo heard the young students of law in this city, express themselves in the highest iprme, as it regards the respectability of their profession, the mportance of keeping up corresponding appearances, and the maneer un which they endangenther lives by meessant applicaton to stifyy. as it reyrards the latter, no dificulty need bo apprehended oy the students of a manual labrine srhmol, ac that parto of their tume wheh wrold be devoted to the several trades practiced at the mstitution, as well as the arricultural and horleulturd departmente, would admirably fit ther bordy and mond for the cloar and casy recopine of the principles of the tarious arts and serences whel would be embraced in therer stadies.
Space forbids us for the present to en. large on this very interestmg subject, and Venmarkot, would only state, that our
cere thanks but the thanks of the whole commonty, for the able and spirited manner m which they have hrought the subject before our readers. That jortion of the Prowneal hournals who approve of the system, will do us a favour by giving meertion to the resolutions reterred to.

## FROCREDNAS OF THE GORE DISTRICT AgRICt LTHR ML sucIe'ry

Wehave the pleastre of achnowledging the ri cept of a very respertable sheot headed ". lerncaltura! fens," being the rules, regulatins, proccednce, recepts, and exnemhtures of the above suchety durng the
past year. past year.
Whic on a ton through the Gore Dis. trict in the early part of last summer, we araled ourselves of the arquantance of the leadiag agricultursts in the ceveral townhips of that D:serict, and felt asionshed at the laudable sprit of emulation whech presented itsplito ourvew, ahost every department of arricultural mprovement. The farmers appear ambous and wilhg and anxions to be mstricted an ther busimess, as a proof of this, there are more agricultural papers taken on that District than in any wher two districte, and the Agricultural Society numbers upwards of three hundred payng subscribers, an evample, we beheve, unequaled in any portion of the Provnce.
If spare admitted, we would have copied largely froin the "Agricultural Neus," but for the present we bey to grise the following extract : hich whl show the epirt manfest. ed towards our feeble cndeavours to elevate the chatarter of Canadian agricuiture, and we trust that every Agricultural Society in the Provace will and ua in placing a copy of our journal in the hands of each member of such societips on the corditions therein epoken of. The very liberal terms upon which we afford our journal under the new mangencat, which may be seen on the last mage, will make it an additional inducement for Societes or Clubs to take a numher of copes, wheh will be forwarded is he address of rach rubscriber free of post-

## SUB.SOIL PLOUGIIING.

We notico in the United States agricultural papers that a now cra is about to dawn upon tho enterprising cultivators of the soil of that country, through a mighty revolution in agriculture that is likely to be produced through the agency of tho sub-soil plough : this reminds us of a fallacious document which went the rounds of tho same papers only two years since, by which tho discovery had been mado by a very celebrated French chemist, that ploughing the ground was an unnecessary step to insure a good yield of corn. A mero layer of straw, shavings, or any decomposible substance, latd crenly sver the aurface, tied down with cords, we presume, was all tho management required to warrant a largo and profitable yield; and tho soil being of so lithle consequence to the plant, that it was con. sidered that it would vegetate and mature on a pane of glass or sulid rock, equal to the finest pulverized soils. We aro ostonished that auch articles aro tolerated in this enlightened age: but, this may be accounted for in part from the fact that nineteen persons out of twenty who write on the subject of agriculture aro men of theory, who very probably never saw what they write put into execution, much less practico it. We were told only a few months since, by one of these men who make a livelihood by writing himself into the favourable notice of Canadian farmers-that he positively did not know tho atference between an ear of oats and an ear of wheat.
In comparing aubsoil ploughing with the caperiment, of the French chemist, we do not wish to be understood that no benetit is to be derived from the operation, on the contrary, we are of opinton that much good is likely to result from subsoiling, but in no way can it be found bene ficial unless accompanied with thorough drain. ing.
. In introducing or recommending improvementsin Canadıan agriculture, only such shail receive our countenance that are calculated to bring in their train sure and remunerating profits -all doubtful experiments shall be withheld.

Subsoil-ploughing of itself, is calculated to do moro harm than good, but when accompanied with thorough draining is of considerable benc. fit, and if properly performed is almost a sure prepentive of drought. No man who had ever practiced thorough draming, would taink of recommenaing it in this country whero labour bears so disproportionate a price to the products of the farm. Thorough draining apart from anb.soil ploughing, would cost at least f6. per acre; and if stone were not in an abundance on the spot, it would ceen excced that sum. The average price of caluvated lands in Western Canada does not exceed $\mathbf{E 5}$. peracre, und is it likely that a system of farming could be successfully introduced, that would require an expendiutre exceeding the primo cost of the farm, to prepare the soil for proper cultivation? To mado ourselves perfectly undersrood on this point, it will be necessary to give a mero outine of what is properly called thorough dramsag. The draine runs most generally parallel with eachother, and are from fifteen to twenty feet aunder, and from twenty to thirty inches deop, and "flet with small stones within fifteen or twentit inchicg of the surface, or with draining tiles, then coverepl' with straw or brush-wood, andétillod with the surface soil. Sub-soll plough. ingercompanjed with the thorough irrinng, merely contiate in the atirnige of the sub.teil by
a heavy instrument in tho shape of a plough, excepting that no mould.sido is wanted. The course to be adopted to carry out the operation, is first to uso the common plough, and by which a largo furrow of the active soll is to be thrown out, then the sub-sonl plough is to follow, and thoroughly break up tho understratum or subson to tho depth of ten inches if possible; then the common plough should follow, and throw as deep a furrow as possible of the active soll, over the last opened furrow of the sub.soil, and so on until the whole work be ended.
By continuing the process of subsoll plough. ing for a scrics of years, a deep friable mould will be made, which will be equal to the soil produced by tho celebrated Irish spado husbandry; but such expensuye modes of cultiva. tion are best suited to countries where labourers may bo had for sixpence per day, and where wheat is sold for eight or nine sliflings per bushel, and wa must content ourselves in Can. ada by practicing such systems of culuvation as are applicable to the peculior circumstances under whel we are placed.

Alhough thorough draining and sub-soil ploughing aro improvements that would not warrant the outlay, in the present infant state of the agriculture of the Province, still less expensive modes may be practuced to drain the land, and give it that desired depth of mould that is necessary to prevent injury to the plant from drought. The following suggested itself to our mind in tho fall of 1839, and would have been carried into practice, had not circumstances over which we had no controul, prevented us The field in question was wheat stubble after summer fallow, which was ploughed with a four by nune inch furrow, in the early part of the month of September. The plan whch we intended to have adopted to give the soil a good depth, was to have harrowed tho land twice atter the above ploughing, and by the first of November to have crossed ploughed it with a furrow sux inctes deep and twenty inches wide, yhich would have given the field the appearange of "Find prepared for tho turmp drill. Land fr spared in the style would only require once plopghing in the spring to fit it for spring wheat orbarley, and would be admirably adapted for laying down to grass sceds. Other cheap and effectual plans may be intro. duced to attain the same object, which will be noticed in due time througn our columns.
In recommending improvements in Canadian huabandry, we trust-that the intercst we have in the cause in common with our brother-farmers, will be a sufficient check to prevent us urging upon others to practice what wo would not be willing to put into practice ourselves. If we occasionally err in our judgment, we would be happy to be corrected by any who may be competent to point out the error.-Pub.

## FIRE BLIGHT.-DISFASE OF PEAR TREESS.

We have recelved a-letter from the Niagara Distnct, gigned. A Subecriber, requesting infor. mation relauve toit disease called fire blight subject to pear trees.

We beg to state for the information of our unknown cortespondent, the lutie we know nbout the discasey. and would consider it a favour were somo of our readers to take up the matrar and give opch additional. facts as would lead to correct conclasiens on the subject.

Itse generally understood that the fire blight is caused from a-small wire worm, that concealo
itself between tho bark and the sappy ferts of the wood which girdles that portion of the tree, so as to prevent the circulation of the sap. The most simple and natural cure that we have heard recommended is to cut the disessed parts off close to the trunk of the tree, and burn them immediately: an other plan has ite admiren and has been practiced with considerable suc. cess by a few gentlemen in this ci y; which is simply done by boring a hole through the trunk of the tree and filling it up with sulphur and plugging it: the odour from the latter would obviously ebb and flow with the sap, by which means, it is said, the insect will leave the tree almost immediately.

The amount of premium offered for an effectual cure for the disease, is a subject with which we are not acquainted, and would therefore refer oar correspondent to more competent authority t) obtain the desired information.

The information desired about budding and gralling the plum suciessfully, will be transmitted in the April number in so clear a light that the greatest novice could not err, if ine plan twe recommend be carefully followed.

The best stocks for plums áre produced from blue plum seedlings or from scedlings from any of the cultivated varieties. The suckers which shoot up from tho roots of grown trees of the above sorts, if carefully separated from the trunk and planted properiy, will be found to ame swer for stocks.-Pub.

## WESTERN DISTRICT LITERARY INSTITUTION.

We have this month bad the pleanure to yecive through the kind attention of Major 1 Lachlan; a Pamphlet neaty got no fiom the press of 3H. C. Grant of Sandwich, en. titled the "By laws of the Wentern District Literature Pbilosophical and Agricul. tural Association." This association' ingry tuted by Gentlemen of the highest remptes tabilty, talent and influence, in and arouged Amherstburgh, has for its object, the endonavour as far as lies in its power by its otn efforts and by,recommending the formation of similar Asscuations elsewhere, to denion': strate and practically illustrate the inestima.ble value of scientifio and otherwise anefin information in every station of society; an to aim at mutual instruction in the rarione arts and sciences and in the ordinary pursuits of life.
Appended to the said By-laws is a copy of the admirable discourse read at the firtt meeting of the Azeociation on the R3d Sed tember labt, by Major R. Lachlan'the Preai-: dent, wherein after a few introductory obzer ${ }^{\text {? }}$ vations congratulatory of the occasion; he encourages the. Members by a rapid bketch of the ruse and progregs amid difficilther and discouragements of the various similars Inglitutions throughout Europo-to, perses. verance in the good plan so avepicioualy:commenced, then turning to the traisatiln. tic world, he makes brief mention of the several Literary and Scientific Aspociatínpant already eatablished in difforent panth, ofs Canada, " bright apote indeed (hersaifor)" iit our otherwise clonded:horiton-beritefitiat;'; alas, to render the provailing monifitaty neat only more apparent."

Our humble attempts to light this superincurinbeht cloud of darkness as far as in us lides, through the medium of the Cultivator, has not been overlooked in his short summary; and we take this occasion to express our acknowledgment for the following flattaring remarks relative to our paper,-", and so litile, he contimies, has a taste for either useful or ornamental Literature beon hitherto encouraged or cultivated, that Camadiain pubblications are yet almost unknown, if we except a volune or two of legal reference, a treatise on Canadian Agriculture, one or two works on our 'l'opography and Statistics, two or three Magazine and Reviews, and, that lately conmenced meritor:ous Agricultural Periodical, The Britisn American Cuntivaron, to which, overy trué British Canadian Farmer is found on give every encouragement and support. He then cons cludes lis very able discourse by enlarging on the objects and purpose of the Association and the prospect of their ultumate realization.

In calling the attention of our readers to the formation of the above Association, and to the fey remarks we have here made, we would strenously urge on every one to endeavour by his indisidual inflisence and exertions, to form a similar Association in his own immediate neighbourhond; to render himself, as it were, a focus; round which, his friends and neigibours impelled, by his example, and persunded by his representations shall gradually cencentrate. Let it not be imagined that the scheme is either useless or impracticable. Some may be detered by reason of the hard' name of the thing, büt hear what Major'Lachlan includes among the detalis of his Association :-every thing partaking of the character of statistics, such as sketches of the setticment and pogressive improvement of any township, town or village, ; descriptions of the original reatures of the country and anecdotes of th first setters, enumerations of the vatiout crops, the quantitios raised, the prices obtained, \&ci; notices of the wind and weather, personal memoir; local historical and ichro. nological. sketches i: topographical or descriptive notes of the features of, any , , art of the Province or District;-details regarding the state of agriculture, trade or manufactures - and accounts of new or improved mechanical or other inventions and implements of husbandry in particular. Certainly to süme one or more of theses subjects, every one is more or less competent, and if cach, would. devote his leisure to the eluctdation off, those subjects for which he considers himself best qualtied, and would urge others to do the same on their parts, what a hàse of valuáble, and agrecable intormation' might be collected in every neighbourhoód: Parva scintilla fil magnum incendium. The little spark thus' lighted would sooner or later raise a flame oi emulation throughout the 1 province, and Major-Lachlan ju some one of his, future discourses would compare our Canda to the lucid sun wiffonly here and there à darksome spot or two

ExTensive Use or Oxfy:-Xt the last New-Haven, County Agriculturl Soc"ty's Fat, there were no less than 1,026 oxen eylibitedapon the ground, Shey, were,paraded, in 513 yokes, in the forp of a hollow. square in a beaplifil green in the shape of a parallelograu, of 54 by, 20 rods sur. rounded by dopble rows of inagnificdtr rims: When thus arranged they covered a space
cqual to 13 mites in denth. Such a sight cqual to 13 miles in lenth: Such a sight
wastuly worth teeing, and we think should teilch Hhose farpera who use horsesiexclu six \% yorm parioses that they wouk find har aiforse in Eubstituting, in part,

agRICULTURAL REPORT FOR CANADA

## EAST.

The month of January was, perhaps, the finest that has ever been experienced in thas climate. With the exception of a fow days, tho weather was as fine as wo could expect it to 1 po in April, and most of tho snow had disappearod from the fields execpt close to the fences. We do not thank thas sort of weather the best for Canada, on the contrary, we would wish to sce our lands well covered with snow tho first of Decembor, and retain that covefing to near the first of April. What wo understand as a truo Canadian winter, will always bo found the best and most convenient for us. Thaws in winter injures our means of communication, and our lands are more exposed to sovete frost, which is never found to beneflt those that are in grass or sown with wheat in the fall. A moderate winter is, however, favourable for the poor, as they dó not require so much food, clothing, or fire, of a fino winter, as in ono that is very cold. On the 5th Instant, the weather changed to cold, and we have had some severe stormy days, to remind us that tho Canadian winter is not yet over, and it is quite possible we shall have a cold day in this and the next month, for every fine day we had in January. Thongh there is not any great encouragement for farmers at present, jet, as wo hope for better times, it is our duty to do all in our power to promote the improvement of agriculture efter the example of our father. land. Tlie moking and collceting of manuro is the most gencral work of good farmers at this season. A large supply of this article is essental in any and all improved systems of husbandry. We have made the following selection from Mr. Hannam's Prize Essay to the Netherby Agricul: tural 'Socicty, on manure:-iic If we produce a crop of vegetables upon a fertile soil, i. c. one cortaining the matters required by the plantthat crop takes away from the soil some proportion of that palalumi whech (we have shown) is necessary to render解 soil capable of maintainng vcgetable life: If this crop is succecded by a serres, it is obvious that the soil becomes more and more exhausted of these nutritive matters and consequenty beoomes less and less fertile. Common obscrvation proves the truth of these positions. The use of manure, tharefore, is to afford the growing plant a fresk supply of that food which preceding crops have consiumet'; or which the soil does not contain. If, then, this bo the uso of manure, if one object of its application lie to pirerent a decrease in the fertility of the soil it is olivious that it may be applied to another object of still more importance,-vix.; to increase the feritility of the soil. Thus, if by apphcäton to a soil of those matcers; wheh one crop has taken a way, we restore it to its original condition, and render it capable of yiclding another crop cqual to the first, it is evident that by retarning to a stil more than the preceding crop bis taken nway, we improve itz original condition, and
 hhing. said an àncient philusopher, 'is more gtateffu than' the carth," and if we make at a Brinciplo to return in the shape of manurá, more of the matters nutrive to vegetables than'we havé carried away in tho crop, she will vie trith as in genierosity:" "This theory of manure is $n$ ' pdrféctly correct one. Unless. we return congrantly to the: eoil, what will be amply sufficient to replace what a crop takes away, our lands nuat beconieexhausted and incapable of yield-
ing profitable crops. Perfect draining is not lese, necessary for to produce profitable crpps than: manure. Indeed manura is uscless on land tipat is not sufficiently drained. This fact we have always ondeavoured to impress on the minds of our brother-farmers. In the British Isles it now precedes all other improvements of the soil. No improvement is nitempted on land that is not drained. No lands would he more improved by draining than the stuf clay lands of Eastern Ca.nada, that never can be profitably cultivated withous it. Thicse sort of soils become so satur.. ated with moisture, that when they are dried by the sun, they are so hard as to render them unfit for the tender roots of plants. Plants cannot extend their roots or draw nourishment from a hard soil that is impervious to nir and moisture. From what we have seen lately in recommendation of Iquid manure, wo would most strongly urgo farmers to construct cisterns in their stables to collect all the urine of horses and catle. Durmg the winter months, cattle by boing well littered with straw, most of the urine may be imbibed by the straw, but what would remain might ruin into the cistern. It would not be ensy to keep the urine of a large atock in winter, when 4 could not be applied to the soil, but by littering the catle weil, and having the stan bles so constructed that no urine would be lost, it might to so managed that all the dropping of the stock might be preserved and carticd to the fields. Licbig in his Agricultnral Chemiatry. says, that one pound weight of human urine will. produce a pound of wheat, and if so it must be a most valuable manure. The large guantity of ammonia contained in unino is what mighe it so powerful' a mañire. Few of our farmers, have their stables 80 constructed as, to collect the "útine of their catlic. Indeed our own sta: bles have this defect, but we expect they will. net bc long so.
Manure might be immensely increased ", by constructing proper cisterns and filling them with soil, and allowing this soil to be well saturated, with urine, which might be annually emptied, and carricd to the ficids, and again filled. Compost heaps might also, be formed, and when not frozen, they might be wet with the urine. The following node of collecting materials for a má nure heap, mighr be ndopited by famers who may havo such materials. Place a fayer, a atot in depth, of bog-stuff, as the foundation for a compostheap; over this a layer six or eight in. ches deep of road scrapings, or yard scrapings, then a laycr of bog stuff, then a foot of rich earith. or that carth whech accumulates at the "ride of drans, or head, ndges--bensegghtinches roadna or yard scrapingem bogstuff and earth as before; in and saturate the whole with urine:fom the cis. téri. Lime, if it could bë had, stiould'betàded in alternate: layers with the $=0$ other materials $=$ The whole curned with, he gpade, and wolli in molt corporaied, three or four weeks before usipg. $=\cdots$ This sort of compost would be very guisable for, , zop dressing ineadodrs ín fall, or for summer fol:low. Wo cover out farm.yard amuxally with carple which wo apply as tap dressing. We Hiares a ofticn recominended to darmara to ute, zare of r. chicir ashes tor inumure, and not to sell pae poupd ${ }^{\text {ar }}$ of it. - Wo eec every day hoiwithstanding car ters. going abour the wointry? mid cottetring
 soap mapufacturis. . Accordjge Liebig tha men. os obtained from vanous kinds of tyeep, aro of, very unequal valuo fur this purpose: fiose from oak-wood are the Least, inf thote from beach the, most serviceable. Thes arahes of oak -mond: wh contain only traces of phosphafeet (that 18, 89 var.uable'as a manure' (or, corn, those of bench the fifth nast of tbeir weight, and thoue of pins'atide fir from 9 10 15 per cent Liebig ary ,hat withat every $100^{\prime} 1 \mathrm{bt}$ of tic asice ol bere w wpply a
fold with phoaphoric acid sufficient for the pro. duction of 3820 lbs . of straw. Tho samo au. thor recommends the use of bone manure, as they pomess 55 per cent of tho phosphates of lime and magnesia. He saye, "tho more finely the bones are reduced to powder, and tho more internately thoy are mixed with the soil, tho more easily nre they assimilated." IIo further states, "the most casy and practical mode of -ffecting their division is to pour over the bones, in a ataie of fine powder, half of their weight of aulphuric acid diluted will threo or four parts of water, and after they have been digested for some time, to add one hundred parts of water and sprinklo the mixture over tho fiold before the plough, in the same way as any other liquid manure. In a few seconds, the free acids unite with the basis contained in the carth, and a neutral salt is formed in n very fine stato of division." This unode of applying this manure is said to cause plants to thrive with greaty vigour and only 40 libe. of bonedust is applied, thus prepared, to the acre. This quantity, however, wo consider much less than would bo necesoary to maintain the fertility of a soil, though it might supply it with all that was required of the phosphater, which is so essential to the production of good wheat and clover; but some other ma. nure mould le applied with this quantisy of bones. Liebig says again :-" It must be ad. mitted as a principle of agriculture, that those anbelances which have been removed from the soil must be completely restored to it, and whe. ther this restoration be effected by means of excroments, ashes, or bones, is in a great measure a matter of indificrence." This is an establish. ed fact that should be remembered hy all far. mers, and if they act according to this pranciple, they will never suffer their lands to become ex. hauated. There is nothing utterly lost or annsbilated which the land produces, it only assumes anothor form. The farmers' care must be to bring back to the soil what it formerly produced, into whatever form it may have been changed aftor ite p.oduction. Much of what has origin. ally been produced from the sonl is wasted $1: 1$ its now form, by being suffered to reman inactive, and not applying it properly, so that it would dizectly yield a new production. A very large quantity of man re is thus lost in our Canadian cities and towns. In Montreal in particular, immense quantities of manure goes into the St . Lawrence; and we have constantly wincssed the waating of excenlent manure in filling up streets, \&c.; \&c., when abundance of stone might be had for that purpose conveniemt and cheap. In England, almost bvery particle of manure that is made in cities, towns, and vil. lages an carefully preserved and agam applicd to the soil. Even the drains and sewers contribute to tha manure. It is by the careful collectoris and judicious application of manure, that the fertility of a country under arable culture can alome be mantaned. In Eastern Canada we have sufficient proof throughout the country, that inis nystem was nover understood or prac. ticed, and the consequence ts the exbaustion of the moil and the deficiercy of crops. And until the aysticm is changed for a better, we need not expect that profitable crops will be produced. It wet leave the soil of Canada to ntself, it will produce a most luxuriant forcst of beautiful treey; but it would bo unrcasonable to expect that it would continue to yield us a new produce anntially, and that we chould rob if of all this produce without returning any part of it to the
soil. Mother carth is very bountiful, but wo may exhaust her of all power to be so, by con. stantly robbing her, and in this way she has been generally treated by her children in Canada. Wo thought it might not bo unacceptable to our Subscribers to subnit the foregong observations respecting manure, at this particular scason of tho year that most of it is made and collected for future use upon tho farm. No improvement can bo effected in agnenture without an abund. ant supply of manuro however obtained, and there is now much information in our power as to the means of increasing manure to almost any extent required. Wo have seen in a late English paper, a plan suggested for constructing barn-hrashing floors, with wooden pavements such as those in use in the streets of London. Tho blocks are penned together; they require no slecpers ; but are laid upon a firm cement foundation, thus affording an elastic and improved floor for thrashing ; and being ono solid mass is impervious to rats. The cost might exceed planked floors, but we have no doubt that floors made on the plan proposed would be the best and cheapest in the end. Wo are happy to have it in our power to state that there is some business doing this winter in Montreal, in pre. paring pork and hams for tho English marketv and it is very probable that by the time this pork and hams reach the markets of that country, the prices will be improved, provided there is not a very large supply shipped to England from the United States. If this should be the case, we cannot compete profitably with them-it if folly to expect it. The advantages of free trade in provisions has had a long trial with us, and we certainly cannot show any proofs that we pros pered much by its seans. We might now make the expenment whit a restricted trade might produce to us, and en zourage and protect our own industry. If we do not become more prosperous under protection and encouragement than we have been under the operation of frec trade, our case is indecd a hopeless one, and the country not worth livieg in.

Cote St. Paul, R1st February, 1843.

## MONTREAL MARKETS.

February, 1843.
Agricultural produce of every description has been extremely low in the markets of Canada East for the last threo months. The price of Butchers' meat has advanced a shade latterly, but is still low. Pork was for 15 s , to 17 s . 6 d. per 100 lbs ., but is now about 20s. Beef is also higher than it was at the timo of our last Roport. Good beef sells for 17 s .6 d . to 25 s . per 100 lbs ., inferior 12 s s. 6 d . to 15 s , per 100 lbs . The retail price of becf is from $2 \mathrm{~d} . t 04 \mathrm{~d}$. per lb ., and of pork from 2 d . to 3 d . per 1 b ., or perhaps a litule over occasionally. Good mutton about 4d. per 10., infenor about half that pnce. Veal of good quality 3d. to 33d. per ib.g inferior 1s. 3d. to 3 s . 9d. per quarter. Geese from 1 ts .8 d , to $2 \mathrm{s}$. . 6 d . ; Turkeys from Is. 8d. to 3s. 4. each; Fowls Is. to 1 s .3 d. per couple. Fresh butter fi m 7dd. to 9 d per lb . S̃alt from $5 d$. to 6 d . per lb. Checse 3d. to 4d. por 1b. The market is abundantly supplied with all these articles, and with vegetables and frut that are sold chnap. The grain market has not been so low for several years. Wheat very lutule in market, and at 4s, 3d. to 49. 6d. per munut. Barley from 1s. 103d. to 2s. 6d.: Oats from 8d. to-1s. ; Rye 2s. Buckwheat 2s; Peas 1s.8d. to 2s.; Indirn corn 2z, to 2s. 3J.; Flax seed 23. to 43. per munt; Oatmeal Irom 6s. to 6s, 6d. per 1121bs. Fins
flour per barrel from 20s. to 21s. 6d.; Coarse per cwt, 11s. Potatoes 10d. to 19. 3d. Fer minut. Hay 10s, to 1 Ds. per $1,600 \mathrm{lbs}$; 8 \&tat 7s. 6d, to 03. per 1,200 lbs., and hay and atraw often re. main over unsold for two or three days ; and hence the whole price obtained for it is not tuf. ficient te pay the expenses of sale, weighing, turnpike, \&tc. The farmer has to weigh and pay every day it is kept over unsold, and thes chargo alone takes a considerable proportion of the price of a load kept over two or three days, or perhaps more, and this wo conaider an un. warrantable charge, when the price of the artiele is so extremely low. Once paying, what it certainly a high charge for weighong, ought to antisfy the demands of our city authonties, and if a poor farmer could not sell his load the tirst dey, he should not be charged for weighing the me. cond or third day. Indeed if the price of hay was even remunerating we do not think a ae. cond, third, or forth charge for weighing the same load a just one, or one that ought to be demanded. The farmer as the purchater and consumer of goods that pay city taxes, contri. butes his proportion to those taxes, and therefore he should not be taxed directly and heavily for the weighing his hay and straw to support city expenditure. There is another very grest drawback to the sellers of hay and straw in the Montreal market : the buyers seldom come te market, or at least do not often buy until late.in the evening, however low the price. Henee, both men and horses are worn out by cold and fatigue, and the day is generally expired before their hay is off their handa, and perhaps they have a distance of from twelve to thirty milen. to go home. This wasto of time, and cause of qeat injury to men and horses, might bosaroid. 6y-a regulation to close the market at two or three o'clock in the atternoon, and all hay and straw not then sold, to be put up for the next day. This may be said, would be an arbitrary. regulation, bat it certainly would not be more $80^{\circ}$ than some other regulations that wo might name, and it would have this recommendation, that it would be favourable to farmers, their servants, and horses. Fow of the other classen in Montreal, would wish to suffer the same, expo. sure for eight or ten hours of the coldest dayg, and in the most exposcd situation within the city. When it would be understood that the market would be closed at a certain hour, the buyer and seller would prepare for this, and do business in proper time. We are confident that the waste of time, injury to horses, and expenses in taverns, that are the consequence of the present mode of doing business in our hay and straw market, is a loss to the farmersthis yoar of low prices, of more than one-third of the whole amount he receives for what he sells. Upletre there is some regulation ta cure this evil, it never . will cure itself, because the buyers of hay and straw may consider it will be for their intereat that matters should continue as at present.

GCoD ADvice. -If your coat is comfortable' wear it two or three monthe longer ; n $\alpha$ makern if the gloss is off. If you have no wife, get one; if you have, God blees her; atay at homac with her, instead of apending your ovening in expensive fooleries. Be honent, frugal, plainseek content and happiness at home-be indug. trious and persevering ; and our word for it, if, you are in debt you will soon, get. out of it; if your circumstences are now embairaped, they will soon become eaty, no matter who nhy he Presndent, or what may be ihe price of etockt. -Bos. Cu!.

## PREPARATION OF IIAMS OR BACON FOR TIE BRITISH MARKET:

It is nomewhat remarkablo that Canadian pork has been an articlo comparailvely unknown in the Brituh market until the present season, which rany be accounted for in part from the careless manner in which it was cured: by that meins it was thought only useful for sailora and convicte and for similar purposes, and was very eeldom exhibited in tho marketfor the u'se of the citizens.
Much credit is due to the Montreal Board of Trade lore their judicious andseasonable remarks on the proper pieparation of meat for the British market, which cexample we tiuat will be followod by other similar: bodies.
In order that, the Canadian farmerr may reap the full advantage of the new trade which is about being. opened to them for the article of ment. an entire revolution must take place in thoir mode of farming and feeding. We are aware that to effect this, that much time will be required, as but few of our farmers really under. stand their best interestis, owing to their means of education being limited, and consequently añ ardent desire for impravement is butitite known or appreciated by the mass. Although the pro: cew of bringing about to desirable z change, may be attended wich some httle' annoyance on our part, yet we do not feel daunted in making the altempt: and we feel satisfied that as soon an the Britiph Government, are apprised of the fict, shat the Canadians are prepared to supply their market with salted provisions of a superior quality, hit so soon will they admit the article of the same conditions that wo receive their thintacticied goods. In recommending modee for feeding and coring beef and pork, we trise We will be guidèd by the dictaies of commón senee, and that nothing will be recommended bitt what will be found profitably practical: In ©ur lagt, we gave our opinione under the head of "Berkshirc Hoge," respecting the best and ment profitable breeds for the farmers to en. uraft on their native uwine, and would beg to give a fow hunts in the present number about properly curing and drying hams and shoulders; which if acted upon will give an article equal to tho beat English hams:
Hame cut for tho Bntish market should be of an oval ihape, and the shoulders may be made to imitato che hams as nearly as possible. They should be cured in the following manner:-To one hundrod weight of meat, add one ounce of anlpetre, four ounces of brown sugar, and one peck of the beat Eiverpool salti, at thirce different applications in ten or twelve days it will be nufficiently cured for lianging up. No rubbing is required an zome foolishly suppose ; the only nocessary precnutions to be used are cleanliness, securty from froat, close attention to the pack. ing of one piecce snügly upon àn other; and the application of the dué proportion of each of the ingredientu: as abóvó specifiéd: Many "prefer ascing their hams in caski, but the plai we pre: for in to analt them on a fow, planks, raised a litule from the ground floor of a.dry and wholesome ecillir, which gives the blood and thatportion of the aalt which is not,requirod for the purpose of caring the mea!, an opportunity to cacapeo. If salled in ubes apd attended to, and taken out of the, bripe at the time mentioned, athe difference in the two plans will be very slight. We re. cominond that the old plan of allowing fiams and abouldore to lay in the brine for eight or teñ woék thonld be abandoned, which of "itself it
einough to destroy all the flavour or jutces that ever were in tho meat.
We have seen large quanities of pork, includ. ing whole sides, cured as abova recommended, which is a fac simile of the Englieh mode : and if we are to be customers of theirs we must prepare our article to suit their taste. It is not unusuasl to see in that counery, in somio of the large bacon curing establishanents, thurty or forty tone pited on the floors undergoing the curing process, In applying the curing ingredients as we have cursorily described, tho meat is laid up into lote or piles, and when each of the application of the same is used, the ono hosp takes the place of the other, and the upper preces are laid on the floor and visa versa, and so on untal the whole be rendy for hanging up.
It is considered a difficult matter to keep dried hams or bacon from becoming ranced or rusted during the summer months. Vanous modes have been pracuced to prevent this difficuily with considerable success, such as pack ing in layers of fresh charcoal, and wood ashes, and others prefer whuefvaslung woth nowly slacked lime; but the plan wo suggest as worthy of a trial; will prevent the rust and will keep the meat as fresh and as clean as when taken down from the hooks.
Hogs slaughtered in the months of October and Novembermay be cured in the style already mentoned, and then be hung up in the upper apartment of a bulding which will admit of a free venulation of pure arr, whach is the only necessary element to dry neeat. In our humble opinion the drying of bacon over kitchen fires or warm rooms, ts the principal cause of rusi.
Hams and shoulders for cxportation slould be inclosed in sacks, made of cheap factory cotton or linen, which should be coated wath a composition of lime, ashes, rock or Liverpool salt, which will keep 1 nscets of cvery description from injuring them.
If any of our readers have their doubts as to the efficacy of our plan, we trust at least thoy will give it a tralion a small scaie, and we.will go ball for the results, if the whole plan be honesly followed out; and if any feel competent to recommend a plan more likely to please their customers, and be at the same umo fraught wath greater advantages to the colonist, we hope they will not fail in forwarding us such for the benefit of the readers of this journal and the Province at laitge.

## GRAND PROVINCIAL SHOW.

In a former number of this journal we promised pur readers, that we would give our views relative to the contemplated Grand Show of Catile and Farming Implements, that has been spoken of as a means of gring an addutana! sumulas to tho breeders of stock in his Province, but to do justice to the subject and the sprited gentlemen who have recommended is wo fear we would make the columns of TaE Cuitmatos of ensive' to some of the would be great men that take the most prominent part in managing the County and District Cattle Shows, and would therefore for the present beg to withlold them. Wè hàve, notwithatanding; five District Agriculfural Societies in our "" mind'g eye,", that are officered by the right kind of men that would take an interest in infusing a " g on a -head". spint of rivalry among the sarmers $r$ iherr respectue, districes; and if we shop', ever have the pleasure of witassing the gr ad peiformance we an.
ticipate greater thugs from those five diatricta. than all the remainder of the Province hevide.
As a apecinien of the spiritmanitested by onv of the above sociotics, we give below an' extract from a loter which wo received only à few days since from their very zeslous end enterpriang Secretary, who, by tho way, is a practical home. spun farmer. In speaking of the support which should be given in and of our feobla exertions, in removing the cloud of darkness trom this our native land. He says:-"I have the satifacuno to state that our Socicty appear, willing to patronze your efforts to the extent of their abib ity, not only by sending your paper gratis to all subscribers of ten shilluggs or upwarde, but aleo have passed resolutions to oblige their committees, who have been or may bo appointod to ax. ecute any trust for the society, to report the stme in writing, and communicate freely and fully all useful' information connected with the dutics assigned them, and ithat official and othot members would bo expected to communicate to you for publication, in therr own ample way, whatever they mught think would be ol:an add vantage to themselves and their brother-farmore to practice. In order to brighton up their momones on the subject, the society recomminda the formation or organization of Farmens: Clube. or Societies on a mall scale, in dufferent neigho: bourhoods liroughout the datrict, the:objectes of which will be to discuse matters and jochinges connected with practical farming.?

If the kind of spurit were promule atod by: sumlar societies throughout the Provinco, Cane da would then be in a fair way of enming the high and glonous appellaton of "an Ciglioth County."
We aesure the csteemed frend from whom wo have borrowed, for public use, unduithorizedty the above extract, that nothing wuld give bsgreater pleasure than to furtier the iniereata of the Farming Clubs wheh are about being organo. ized an his. distriet, and any doubtifulquentiona. that may anse. in any of their discuselonfane. would be happy.to give our opinon. As for the , plan smple aryle apoken of, wo would gy, the plainer the betcer, if the communicationa contitin. pracucal facts that would prove useful and ina. structive to the mass of our readers:

We strenuously advise the organization ar, similar Clubs throughout the whole Province, and we flatter ourselves that the benofitu derived. will be of an incalculable valuc to every person who interests himself in the matter. A saries of questions will be proposed by us from time to time, which will open a field for uscful discuity sion for such Clubs.

To Correspondents,-A commúnication' ${ }^{2}$ from Belleville has been received, signed "A.Reader," and another' from Hamiltan", over the signature of "A Free Traderi," which will receive due attention in the April number.

The articles promised in our lanhon "Wheat Culture or Preventive of inuet," have been unavoidably cruwded out of the present number.

The Wood Engraver has been abogit from town' for sotne time past, which ac-e. counts for the absence of engravings, be heici: however, returned, and our jouria avill pe wo in future illuatre ed with ugeflengravinemp
aGRICULTURAL IMIPROVEMENT ay tue edocaton of times who ane engaged in it as a crurission,

## BY WILLIAN EVANS,

 atimor of tile treatise on agriculture, \&c. \&c. \& $c$.
## LEETTER III.

I sball commonce this number with an extract from an excellent work, Watderspin's Early Discipline:-" A strange idea is entertained by many, that cducation unfits persons for labour, and renders them dissatisfied with their condition in hife. But what would be said, is re any of the powers of the body in a certan case disused? Suppose a man were to place a bandage over his sight cye-to the up one of his hands-or to attach a ponderous wetght to one of his legs-and, whon asked tho cause, were to reply: that the glance of that eya might make him covetous-that his hand might pick his neighlour's pocket-or that his feet might carry him uto evil company -might it not be fairly replied, that hus members were givon to use, and not to abuse-that their abuse is no argument against their use, and that thas suspension of their action was just as contrary to the wise and benevolent purpose of the Cresarok, as their wrong and guilty application? And does thiss reasoning fall when applied to the mind? Is not the unemployed mental faculties as opposed to the advantage of the individual as the unused physicas power? Can the difference between imind and matter overturn the entraordinary praciples of reasoning and of morals? Besdes, how is man to be prepared for the dutues he has to discharge? By mere attention to his body? Impossible. The mind must be enlightened and disciplined; and if this be neglected, the man rises but litte in character above the beasts that perish, and is wholly unprepared for that state to wheh he ought to have aspired." In these adeas I most cordially concur, and I steaddestfully believe that there is no means of teaching men to know theraselves, what they are capabic of doing, what they ought to do, and how they can best accumplish what they have to do, than by a useful education, corstantly exercised durug lite, at every fitting opportuntty, by good reading. If this be not the surest means to ostablish right principles in man-to instruct hum in his duty-to make him andustions in his calling-ambitious to provide for himself, and all those who have clams on his protection, as much of reascnable enjoyment as possible-in fact, to teach him to do all that he may have to do, vetter than he could have done, without education, it is in vain that we should go to school, or waste our time at "Book-learning."
The Creator and Giver of all Good, has endowed man with faculties sutable to his condition, and though these faculties may not be given in equal measure to all, or in some cases, from accicontal circumatarces, may not be so fullor periect in one
as in another, yet, with, I believe, few exceptions, the faculices are capable of being improved by a proper edacativi, to suit vur circumstances, ard enable overy man who excrcise them properly, to fill his station in society, with eredit to himsolf, and if not in all cases, with advantage to the community, at least, without injury to them. We know by experience, that all men do not possess equal natural abiltice, and cannot attan to the same degree of knowledge by cducation, but most men may acquire what is necessary to cuable hom to perform all his dutes with satisfaction to humself and others.
It has often been obscrved to me, that education was by no means necessary to a farmer whe followed the plough, and had to join constantly in all the other labours of agriculture ; hat it dd not require much reading to mstrict men to plough, to dig, to sow, to phent, or harvest. It is true, an uncducated man may perform all these works as a machine mighit do, but he is not capable, in all caies, and under every circumstance, of understanding the most proper and judicious mode of executing these works, and of doing all that ought to bo done, so that the most favourable results shall be obtarsed at the least possible expense of labour or cask to the safety of the crops. 1 farme: who employs labourers, and $t s$ himself practically educated and guslified to direct the labour of others in every department of agriculture to the best advastage, may have ins work done in the most yerfect menner, notwithstanding that there sinould not be one of those he employed who understood the alphabet. He might direct and move them as he would a machane, though they should be perfectly ignozant of every thang connected with the ari of agriculture, except the knowledge of jabour which they had learned by imitation. But, let us suppose, that the person who has to direct the labour of others on his tarm is uneducated, and not even well instructed in the practice of agriculture-has never had an opportunity of reading, or hearng of the valuable mformation that has been published on the ampovament of the ari of agriculture, the breeding and managenent of stock, and various other matters connected with his protession. How can such a enan be qualfied to guide himself, or direct others to profit or advantage? Il cannot be, nor nerer las been.
Nfter a grod deal of observation, and some espertence, in the Old Country and in Canada, I am fully persuaded that it is necessary to understand perfectly the theory and practice of agriculture, in order to practice the art properly, and at the same time, witn the advantage $s t$ is capable of. A man of capital, though he should be ignorant of the practical part of farming, may, by employng qualified farm-servants, have all the work executed in the most scientific style; but I have reason to believe that this sind of farming is not the most profitable in this, of in any other country. I look upon farming as a regular profession that
requires to be understood theoretically and practically . and those who will practice it without ceing duly qualified, may expect that success that a man would have in any other profession, of the theory and practice of which ho was wholly ignorant. Thefe may be exceptions to thas gencral rule, but I believe "they aro fev and tar between."
Good management in husbandry, is that which will produce amually, from a givou qupnity of land, the greatest or most valuable product, at the least oxpense, and at the samo time not exhaust tho soil. This is what I understad to be profitable and successful farming, both for the individual and for the whole community. A fatmer, under such circumstances, will have it in his power, with all those who are dependant on him, to enjoy a jarger portion of tho comforts and conveniences of life, than those who rase only a scanty produce; and being able to purchase and consume more of the necessarics and conveniences of life, he contributes towards the profits of other classes not agricultural. $\Lambda$ farmer who can thus successfully practuce his art, may well consider humself at the head of all other professions, in usefulness in every woay, be. causo he furnishes the means by which alone commerce and every other business is carried on. Were farmers only to produce what was necessary for the support or their own class, no othertrade or profession coutd exist in the world. Is it desirable thent that every agriculturist should be capable, of practici gis profession in the most per, fect and profitable manner, so that jand and stock shall yield the largest returns, that. judicious cultivation and management will give? If this ts "devoutly to be wished;" the only way to accomplish it is, by encour-* aging and promoting useful education among the agricultural class by every pos ible means.
By reading the many excellent works on agriculture, that are published in Britain, France, the Netherlands, and other places, farmers will bo eble, with their practical experience, to attain a useful knowledge of their profession. And by reading other. good books, they will make themselves acquainted with men and things, of other countries, their mamers and habits; and thus they will obtain by degrees a perfect knowledge of what they ought to $\mathrm{do}_{\mathrm{y}}$ in every circumstance, and how to do it. $\mathrm{I}_{2}$, know it is by such means they will acquire. a taste for improved agriculture, and fors: the reasonable cojoyments of life, without, which, mprovement w II never advance bre step. Persons may feel very well content with their situation and circumstances, and want none of the actual necessaries of existence. But the question is, could their situation and circurnstances be improved, and what are considered the means of happiness augmented, by a better and more. perfect hnowledge of their profession, which they might attan? I would almost say. that it was sinful for persons so circumstanced to remain contented, if they were sensible of the fact, that their condition was
perfectly capable of being infinitely improved, for their own very great advantage, and also for that of the whole community. An abundant production obtained from the earth by judicious agriculture, will, in every cotuntry, except, perthaps in Ireland, be followed Sy an increased consumption of the necessaries, conveniences, and clegancses of life; and; I believe, this is a state of things anxiously désired, by all who inhabit thil eafth, and who enjoy the aduantages of education. Yes, I would say, it is the main-spring of all their exertions.
'Excluding from this question, every connideration of profit, of pounds, shillinge, and pence, which might result from the improvement of agriculture through the education of those engaged in it as a profession, $I$ would take leave to say, that there is not so favourable an opportunity for men in any other profession or employnient, to cajoy the real ploasures, that education science, and the study of nature in the works of Providence afford, as that which is almost constantly in the power of the agriculturiat. Why sliould lie not then be aple to avail himself of these opportunities, by qualifying himself to enjoy them? Is it beccuse his employment is occasionally laborious, that he should not be educated like other mien, or that education would not prodace so much benefit, delight, and pleasure to him, as to those who reside in cities and towns ? Is the mind of the farmer less capable of cultivation and improvement by education than the minds of other men? Mifid is the man, and the man must be what he knoweth, and his value to himself, to his friephe, and to socicty will pe proportiuned to the quantity of good fruits produced from the right exercise of his knowledge. Is notinnowledge then worth seeking for, and grantly to bo desired? Most earnestly do I wish that it, was in my power to persuade those whom Laddress that it is so, and to think eeriously on these matters, in which theytare deeply interested. If the uneducated were only made sensible of the dis. adyantages they labour under from this want in many respects, as well as that occaino iod by a defective system of agricultural managegent, they would be sure to endeavour to provide a remedy for this evil, that the rising generation should not suffer for want bi useful instruction, as all those must do that are now without educaticin, and too far advanced in years to obtain it.
"TMrortince of Wismitit in Feeding Catrie. - At the Clitheró Agricuitural Méeting Jast week, Dr. Garstaug, of Clithiéno' read a communication from Professor Playfair, and we have been favoured with the following extracts from it - "Heat is, therefore, an equivalent for food, add by a knowledge of this fact, we may economise the latter very considerably. We knou that cattle fatten mucli more slowly in win: ter than in summer, the reason being that part of the food is expended In the production of the necessary heat. Liord Ducie whis kind enough'to communicate to ne ari experiment of him in which 100 sheep were fat inl hä'open airy and anothér 100 in the
same space with sheds to retire into at pleasure. The first lit cat 25 lbs . of Swedes per day; the latter only 201 lbs . Although this lot, with 5 lbs a day less, had gained on an averago 2 lbs . per shecp more tha sthe last at the conclusion of the experiment. I may also réfor to Mr. Chiider's beautiful experimente, as recounted in the Journal of tho Royal Agricultural Soclety. By this post I have received a letter from General Sir II. Elphinstone, describing the remarkable success on his land of certain clitmical manures which I recommented him to try. He had for example, a soil which was considered incapable of maturing the grains of wheat. We found the soil destitute of magnesia, a substanco which the grains require. Ife, therefore, manured the land with equal parts Epsom salts (sulphate of nagnesia) and nitrate of potash, and obtailed a fine crop, which is very full in the ear. The straw was "small, like all other whents this year, which is owing to the deficiency of rain: to dissolve the silicate of potash from the soil ; this being necessary to form substance for the straw.Ens. paper.

## WINTERMANAGEMENT OF BEES.

Some persons leave their bees out without any protection during the cold season, others have a shed open in front. In either way they are liable to losses which night be avoided with good management. Large swarms generally produce warmth enough to protect them in severe weather, yet they are liable to injury or destrúction by ex: posure.
By snow and ice the door of the hive becomes stopped up and the bees are suffocafed. Fecble swarms suffer by severe cold, as they produce but little heat. The per:spration that is contmually passing offifrom them, gathers around them, on,the hive and comb and freczes there. The becs.kep. an a close body and cat the honey that is hear them, but they will not:venturo out in the cold region.
Sometimes they move upward, if there be not frost on the comb above them, and eat the honey as thoy goin a small spaca to the top, and then starye with a nlenty of honey: We lost severa swarms in this way, as we ascortaified by close inspection, before we were aware of this danger.
When the bee-housci is open minfront, the sun shines on the hives in a warm day, revives the bees, they fly out, become chilled, fall on the snow and cainot recover. In this way thousands are lost for want of a litte care. Sometımes the perspiration from the bees rins down 10 the bottom and there finding a colder region freczes and stops-upthe door and the deees die for want of airs:

We will now point out a remc ly for these evils. In the first place, there should be a hole for yentilation, some distance from the bottom of the hive ; in that place it will not be: so. likely to be : stoppedrup withice. A better way than thas, though attended with more trouble, is to place under them a box eight or ten incles high, or higluer, with a door at the bottom for ventilation, ass at the buttom of the hive. "This will give them more air, and the perspiration will run down below the bees, and prevent that moisture which is caused by its being confined to the hive ; and this way gives a supply of air. See that the box is so well fitted to the hive, and the door and ventilation so small as not to admit mico-noteren small ones.

Board up the house closcly, in order to Keep it warm and dark, and prevent the ad: mission of snow. Then thisian will not
shine on the hives to revive the bees, so that they will not be likely to come ont of their hives, espectally if the liouse the made. rather dark. In this state they should re: main till warm weather in the Bjpring, when they can lly out in safety.

Small swarms that aro lable to suffer with the cold, and those that have but litule honey, may be wintered in good condition by burying in the ground, when they might perish by reason of the cold, or starve on the scanty allowance, if kept above ground.

In burying bees, choose a place where the soil is sandy or gravelly, that it may continue dry, and dig a hole, so that the whole hive may be buried below the region of the frost. Lay some straw in the bottom of the hole, then place the hive, without the botton board, over the straw. and olevated 8 or 12 inches above it. Then put, straw round the lower part of the hive, and the earth should be dug away; so that the straw may be 8 or 10 inches thick round this. part of the hive, and lay the :strawup' so $h$ gh that it will continue around the, bottom after the carth is thrown upon it Then throw in the carth, and heap it up over the hive, so that it, will throw:off thit water. Let the bees reman till it is suf. ficienty warm for the to go out, and when, taken out place them immediately on a board, and close the door till they can be' placed on'the stand; else the: beeserwill fly: out in a a short time, and you, must weit till, they go; back.
A bec-master informs us that. he has practiced this way with excellent success: The bees cat not half so much hoticy a! they, do in the usual way; somo ssyarms:eat: : not more than three or four; pound in. कn wiuter, and they come out in fine condition., As they are in the dark and not liable to the changes of the weather, they'lie in er dommant state. He says that he has boughe lightit swarms in the fall for only one dollater cach, as they had only a few pounds of honey. and by burrying them they have wintercd well and done, well in the ensuing sea-rson.

Somo writer, Thatcher, we beliève, says, that from experiments this is found to be an excellent $n$ cthod, though it is contrary tos reason, in depriving the bees of: pureiairat: We consider the phan founded onireasioun It gives the becs a proper degree of warm then and an even temperature, and hey are rree from all the varlous changes and noise of this ever-varying and busy noisy world :"or that they rest in:peace, quiet. and comfort, like a blar in his den, till the season of work arrives, when, refreshed and vigerous from their long rest, they come forth to their labours. A small swarm generally hasival cant room in their hive, there is. asapaceblezol low the hue, and they haye the adigantagas of the air in the straws and there is doubtios less a circulation of air in ine earthi and as the bees are still, they redure fest án! for réspiratione So we think thind jotere of-winter managements fouided:on raikonits is well as supported by, facts of A ind hy: folsc! lowing it, bees vill be a great deql more:q
 aiduth oit
To Cure a Burx--A Quakerosspreacher in Nề York, was so successfulin, cur-it ing burns, that many of the lowerclass sup in posed her possecsed of the power of borsint ing maracles. The following is thereceipt* for the medicine:--Take one ounce of, beegdax with'four ounces of Burgundy pitch, simmered together in an'earthen vegsel, in " as much syeet oil as will moftent then intows the consistency of salve twhen cool. Stirw the liquid when taken from the fire till quite, cool. Keep it from the air ing a tightbot ber
jar. When used, sproan it thinly on a cloth and apply il to the part injured. Open the bum with a needlo to let out the water tull it heals.-Ame. Par.

## Unburnt brick houses.

Wo received a fow days since a note from a friend of ours, who resides in the Brock District, in which he desires further information rolative to the mode of construcing the above cheap, durable, and warm houecs. Wo heartily reapond to the call, and take pleanure in not only answering his inquiries, but will give such additional facts as suggest to our mind at the preagnt uoment; and at any other inquirios are madu by the same, or any other respectalie party, on the abose or in fact any other subject upon which we feel conpetent to give currect and satistactory ansibers, we would take a pleasure in diaposing of them in the samo way,

Tho bricks roferred to for tho construction of the inside walls and chimneys, may be made alnost any size to suit the taste and convenience of the builder, but the dimensions we gave in our last are decided. ly the most preferable; and are sometimes used for outside walls when the building is not more than one story high. The whole of the chinneys for two story housen may be built with unburnt brick, excepting the fre places as high as the mantel-pieces, and the portion of the chimneys that project above the roof, providing that the roof join. ing on to it be inade so that it will not ad. mit any water to reach the clay.

The principal object of bond timber ts to attech fixtures to the wall, such as varandas, door and vindow sills, base and surbase, \&c.; and no danger need bo apprehended reapecting their rotting, as the walls would hare to be made inpervious to water to insure their durability. It is obvious when wood is thus secured from that devouring element, that it would remain sound for endurieq.
Two atory houses require iour pieces of timber at least four mehes thick, sawn or bewn out the exact length and width of the building, which should be laid into the wall for the rafters of the varanda so rest upon, and should be ladd about one meh within the outer edge of the wall. The rafters of the varanda should be attached to the lower edge of these timbers, and they as well as all other outside bond timber, should be lathed with ordinary lathing, and by this precaution the plastering will remain as sound on the timber as on any portion of the building.
October is the best month in the year for plantering outside walls, as it would be dried principally by the air, whuch would make the pracess more slow and perfect.

Dr. Drury, an English gentleman, built a house on his farm on Yonge-street, twelve miles from this city, in the summer of 1836, which was neither plastered or protected with a varanda until the fall of 1838 , and the wall to all appearance is as sound as
the hardest granite. This bulding is fifty fect long, thirty-six feet wide, and proportionably high, and certainly has the most imposing and respectablejexterior show of any farm building in the Home District.

We do not recommond this description of buildings to bo raised very high in the wall, although but littlo apprehension need be entertained, if at least one experienced workman be employed about the job.

A false notion has ganed ground with many respecting tho tempering of the clay, in supposing that but litile care need be bestowed to that department of the business; whereas neariy the same minuteness should bo pbserved as for burnt brick, with the exception that smail stone or gravel do not matertally anjure them, and thereforp need nut be separated from it.

We lughly recomenend unburnt brick for the construction of sheds and stables for stock, and for every degeription of out buildings that are desisable for the comfort of $\operatorname{man}$ and beast.

## HARD TIMES.

Scarce'y a letter reaches us from our Agents, but greatly complains about the hardness of the times, the scarcily of money, and the unvoillingness of the farmers parting with eo small a sum for so useful a jonrnal, as ours evidently must be to every $\operatorname{man}_{4}$ who would practice even a tithe of what we recommend. We have made the cause of all these calamities a subject of studious investigation, and we flatter ourselves, have discovered a remedy.
As a conductor of an agricultural journal we are forced to acknowledge, that in order to point out a full remedy for the diseased state of the Province, that subjects foregnn to the avowed policy of our publication would necessarily have to be discussedthese, however, will have to be dismissed from our columns, in order that our humble sheet may not be offensive to the most fastidious mind.
In pointing out vils which have existed among civilized beings from time immemorial, plainness and conciseness mintat be practiced by the writer, and indeed are in. dispensably necessary to cffect the desired reformation. This stylo will be practiced by us, so that we may be understood by the common class of farmers and mechanics, and will also be of that character that will warrant our articles being not only read and appreciated by these classes, but we trust practuced; and when once properly practiced in all ther bearings, the benefit will be theirs.
From what we have remarked, our readers may possibly anticipate a scries of articles arranged under the appropriate heading "Remedyfor the Times;" but we would remind them that this will not be the case. We have concluded, to devote in future, the larger proportion of this paper to the all-important question; and every article of
oure, as well as selocted, will, wo trust, be admirably calculated to aid in bringing about a now and healthy state of things in this important colony.

Although certan features of the times are romarkable in their nature and effects; and the commerenal and agricultural emhar. rassment and distress are greater than they have been in the Prownco during the last twenty-five years, yet we chould be thpukful that we are not in a worse cond(ion:
The Canadian agriculturist 18 ma a truly enviable position when compared with the came cibss in the Unted States. The spint of speculation has run so high within the last few years in that country, that it has.in sume states of the Unon, become a sare thing to find a farmor "Sree and independ-ent"-or in other words, hes freehold property unencumbered. Independent of tha iact, the taxes direct and indirect are three times as great as ours; and the currency is so deranged, that the mass of the bank promissory notes are like so many filthy rage. The picture we have drawn, although correct to the very letter, might be considered by a prejudiced mind rather exaggerated, to convince such that we are not actuated by any inproper motive, we beg to give an cx. tract from a journal of a high and indisputable character published on the spot. A correspondent of The St. Louis Republican writes under date of the 1lth of January last:-
"The Secretary of State appeared" within the bar of the House, and read to that body a communication from the Governor, irging upon the Legislature the immediate necekaity of action in regard to the finances of the state. He affirmed that for want of means, it was with the utmost difficilty that necessary supplies could be procured for the two branches of the Legislature, and when they were, it was at most exorbitant prices. Wood which he sated could be. prices. cents cash, the State now had to pay three dollars and a half for; candles, which for money could be procured at thiry-seven cents per pound, now cost the State one dollar, and other things at the same proportion: all arising from the fact that there was nothing but auditors' warrants to pay them with. He also stated that it was with thio greatest difficulty that money enough could be procured to pay the postage on lettery addressed to the Executive departmenti and entreated that some action might be had in regard to the financee of the state at once."
We think that we have clearly shown that Canada is not in a worse condition than her neighbouring States; and in our next will make some allusions to the present state of the farming interests in Great-brit tain, and compare the difficulties which the English farmer have to surmount in comps. rison with the farmiry classes in this Prog vince.

Mr. Pore.-The expletive Pope generally, used by way of oath was "God mend mee. One day, in a dispute with a liackney coach. man, he made use of this expression -4 M (end mant, he made use orchman) it xould not by half the trouble to make a new one.

## For The Cullivator.

Hesorotyons passed at a public mecting of the inhabitants of Nowmarket and its vicinity, held at the Christian Meeting House on the nineteenth ult.
1at. That we are of opinion that the best intereats of society, the advancemont of sound practical' knowledge, the promotion of beatith, and the preservation of morale, equailly demand at this time an extension of the basiz of public education among the la. bouring youth of our country.
" 2idid. That for the attainment of these objecter, vitilly important to the harmonious action of our freo institutions, and the welfarn of all thoes under their controul, we are of opinion that the manual labuuring principle combines advantagos decidediy auperior to any other as regards economy, practicability, and efficiency for the end in view.
3rd. Tliat institutions founded on this principle are capable of opening the portals of science to all witiout distiretion, the poor ai well as the rich almost without fee or' reward, and 28 a means of preparing tohehers, properly qualified to supply the demands of our common schools which are motoriously lamentably deficient, would be at thii time incalculably valuable, if found--a in every district of our country.

4th. That we are of opinion that the public fand of the Province could not be applied to a more noble and praise worthy object thin'the èncouragenent of such institutions -inetitutions which are capable of placing within the reach of the labouring youth of our country, the means of acquiring a much more extensive, scientific, and practucally meful education than has ever yet been within thin power of the labouring community either in ancientor modern tima ; and which affords almost the only facilities for introducing the aids of science, and philosophy into the daily operations of industry, While by fortering a noble and generous spirit of improvement, they contribute to moral and intellectual elevation, and at the sime time give dignity to labour and the Hechanical arts.

5th. That deepily impressed with these views this meeting will use every endeavour to entablifh an institution on the Manual Libouriag' Principle in this vicinity, and that the atyle and designation of sad institution shall be "The Canada Union Manual. Lubiour Institution!"
6th. That the course of instruction pursmedt in the' said institution shall embrace the usual routine of a liberal school education and in addition thereto will be taught the matural and mechanical sciences, including the laws of animal and yegetable life, Geology Chemistry, Botany, Physiology, Natural and Experimental Philosophy, Scientifc Agriculture, the laws of mechanical ecience, including the use, combination, mode of action, ec.; of the mechanical powars and their capacity for aiding the dally oparation of industry; the whole will
form a system in which our mechanice, artizans, and farmers old and young will be equally improved, benofited and delighted.
7th. That for the accomplishment of the varicus ends of eaid institution, shall be provided-1st. Suitable huildings for the acconmudations of the students and the necessary oficers of the astablishment. 2nd. A suitable Cabinet and apparatus for the purpose of exporiment and iliustration. 3rd. The necessary workshops and tools for the business of the mechanical department. 4th. $\dot{A}$ farm of nut less than 200 acres for the practice and developement of the principles of scientific agriculture, melading every thing that relates to cropping, draming, fencing, raisiug of stock, anal.zation of soils, vegetable chemistry, horticulture, \&e.; in this departunat the design will be to exhbit science as the handmaid of profit and economy, and to form a model that may be safely imitated.

8th. That for the purpose of carrying into effect the foregoing objects and of giving efficiencythereto, a sum of not less than ,Three Thousand Pounds will be required, and that Dooks of Subscription shall be immediately opened, and a petition to the Legislature prepared, soliciting the aid of that body in raising the sald sump, and that George. Lount, Esqr., M. I. Empy, Esqr., and Dri:Inter shall be the committee for preparing the said petition.
9th. That the government of the said institution shall be by Seven Directorq elected by Trustees; who have been previously elected by the Stocilbeldacre of each Township.
10th. That any person subscribing five shillings shall be a stockholder, and entitled to purchase a scholarship, also to vote in the election of trustees; that the price of each scholarship shall be two pounds per annum, and that the proceeds thereof are to be applied to the payment of the Superintendent and Teachers.
11th. That every person subscribing two pounds shall be eligible to be elected a trustee and to purchase two sicholarships; and any one subscribing five pounds may be elected a director and have the privivilege of purchasing three scholarehips: all. subscriptions from one to five pounds to be paid in three annual instalments.
12th.' Persons"subscribing ten pounds' to be life trustees and entitled to life scholarship without further payment, , payable in four annual instalments; and persons suhscribing twenty-five, pounds or upwards to be life directors, and entitled to act with those chosen by the trustees, and in addi, tion thereto to have three life scholarships without further paymenis: all sums over ten pounds to be paid in five ànnual instalments.

13th. All privileges of acholarship to be trañsfer rable, and in case of the death of any Iffe difector before the expiration of twenty years from the opening of the institution; their privileges are secured to heir famllees for thiat periog.

14th. That on a certain day in each yoar after the first two, the stockliolderil of wach township shall meet and elect one truettit but in case of there being a lese numbar than ten stockholders in any one townefip; they shall vote in the adjoining tewnehip.
15th. That the trustees shall meet aninu. ally (excopt tice first two years), in one or more convenient places in each District to be named by the President of the Board uf Directors, and shall elect by ballot the directors for the ensuing year; that they alall appoint 2 Chairman and Secretary frim. among themnelves at, such moetinge $;$ ind that it shall be the duty of thene oficerrele transmit the state of the poll to the Promis. dent of the Board of Directores to be by him communicated to the board, and that all elections of the officera of this inatitation shall be by ballut.
16:h. That the duty of the firat Board of Directors shall be to choose a auitable;iocation for the institution, engage the necarsary quantity of land, determine the extont and conetruction of buildinga, provide minterials, entes into contracts, insue.orders for collesting subscriptions, engage the Suparintendent and Teachers, and put eyery thine connected with the institution into opprep. tion.
17ch. That the Studente in thie imetitm tiọa will be required to labour diligentuy met to exceed five hours per day, and chat the only compensation of auch labour willye board and washing and inatruction at,lease six hours mone.
18th. That no person can receivo the benefit of the institution, but such as are stock-holders and have purchased one or mone. scholarships.

19th. That three of the Boadd of Direetors shall be a quorum, and the oldent pro.sent shall preside as chairmanin the absence of the President, and that the Board shall have power to form ita By-laws for the regulation of the institution.
20th. That a temporary Board of Diree. tors shall be chosen at the firet genaral moeting, and continue in office, until there shail be ufficient subscription oblained to authorize the commencement of operotionn; that they shall have power to appoint genents to obtain subscriptions, and when a sufficiont sum has:been subscribed to isaue, ordars for, electing trustees in the different town, ships, and also for directing the meating of such trustees to elect the directore $y$ win 21st. That every one entrusted, with the funds of this institution ghall give; maide security for the mame, and that no gollops tions will be authorized till a sufficieneiey fon: been subscribed, to, ensure the gucceas, of the institution.

The brine in which cucumbers have been ipreserved, is said to be fatally poinonoun to cattle and hogs. One of our citizent a feo weeks back lost 2 cow from het having eity on a great quantity" of pichlö" which "had: been thrown ögt ą expoitedspitydtomen


To the Editor of The British Amertcan Cullivator

$$
\text { Moxireal, January, } 1843 .
$$

## Dear Sim,

If it be an object of the first minortance to the wealth, strength, and prosperity of a nation, that its agriculture should be fostered and advanced to its utmost capable extent of perfection, and I believe noperson of common intelligence ever denied it ; then it necessanly follows that it is the duty of every man, who wishes well to 'his country, whatever may be his rank, station, or employment, to contribute as far as it may be in his power to its promotion and encouragement, and to the removal of any obstructions or impediments which may retard its success: it might seem preposterous'and presumptnous yerhaps to many thus to reiterate what has been so often advanced and proyed by the wisest and most pattiotic men of every country, but unhappily, like many other important things in this life that are unversally admitted to be trie, men are too subject to forget or neg. wect Erem, and hence the utility, nay the arecessity of repestion which may do good, :andicertainly never can do harm. In my last communication, or rather request, I ${ }^{\circ}$ alluded briefy to the too high rate of wages given to farm-servants and labourers as being one of the great drawbacks to agricultare, tending to depress it, if not wholly to discourage any attempt to cultivate land to adoantage for private profit or public be. nefit, and tho object of my present letter, should you deem it not unworthy of insertios in your valuable paper, is to call the attention of farm-owners and land proprietors, to the necessity of coming to some reasonable delermination upon this part of farm expenditure, not only for the sake of the future labourer as of his employer, for from the little experience I have had, it appears obvious to mo that under so great and constant an outiay of money, it would be more advantagcous to allow the land to reitiain uncultivated, and thus a great mass of tabourers be thrown out of emplog, and the hopes and expectations of the emigrant frustrafed, rather than give such enormous and idinous wares as are asked, and but too úniversally, and often too readily given, and wholly unknown in the mother country. This I am inclined to beltove.s generally feit, and it is full time that some method thould be devised, and generally and speed:3 y-adopted to remedy an eyil which in the end, for the reasons before expressed must prove equally injurious to the proprictors ia to the Jabouxing class iteelf, and to the country gonerally. Far ive it from mo to
write or do any thing that could be considered as unjust towards so necessary and useful a clase of men as farm-servants and labourers, I wish them well and that they should receive an adequate remuneration for thear labour, and am desirous of employing as many of them as my means and the extent of my farm whll justufy, and that may be necessary to carry on the improved system of agriculture, for such I conceive to be my duty as a member of society, and that as a landholder 1 should endeavour to raise as much possible produce from the soil as can be obtained from it, but it never entered into the head of any liut a madman, that as a land 7ro, rietor he should ruin himself by neglecting to adopt that just (not niggardly) economy is his farm arrangements and expenditures, without which nether the public nor himself would be eventually benefited. I hare been ever the frend of the emigrant, and many, very many of my fellow-subjects from the British Isles, within the last forty years, have been fed, housed, and supported by me, I shall say nothing as to tite resuits, as it would be a selfish digression from my object in now addressing you, it is enough to say it ended in a complete sacrifice of my means and in other respects afforded me but little satiefaction. There can be little doubt that the emigration of well disposel and active labourers to this country may, under proper reguiations, be productive oi equal benefit to the emigrant and the landholder and consequently to the Province at large, and I am convinced that there is ample employment to be found for them, if they are really industrious and will be content with moderate wayes; nor am I melined to think that emigrar s experience so much distress on landug in Canada, as some from an excess of chanity are unchned to behieve; it cannot howeter be mattergof surprise if among the great number that yearly reach our siore some instances of destitution sinotid occur, loudly calling for ile aid of a benevolent and generous public, but beyond these, the Dest chanty that can be exercised is to gave then the correct and wholosmae adivice they so much need, (ff they will attend to it), or employment if you have any to give them, and then te will not be long before they will denand the wages of a firet rate servant or they will quit you, cxpecting no doubt to realize their golden and visionary dreams of sudiden acquired wealth and independence, and will go where they think they must obtain what they style decent wages, which it may be remarked is always ahove sis dollars a month and their board, gix dollars and board not being esteemed decent; and yet there are none of them I have met with whose services were worth that sum, for whatever may in their representations to the contrary, it will be found they have every thing to learn, and wath but in few exceptions tisy are below mediocrity, neglect their
work, or, at best, perform it in a carcless manner; with such the watchful cye of the master is constantly required not only to urge them to work but to instruct them how to perform it, that is if he would avoid great loss and a great deal of vexation. The extravagant ideas and expectations which are generally entertaned by the labouring class who emigrate to Canada, whether created in their minds before they leave home, or on their arrival here, are for the most part the cause of the high wages demanded, and, it is known that many of them will remain idle until the last moment, that is until pinched by absolute want, and even beg, rather than work for moderate and reasonablo wages, and such as a farmer or land, proprietor can afford to give, and even which the emigrant never could have thought of much less obtained in his own country: it is however natural to suppose that if they. found that others were receiving high ${ }^{\circ}$ wages, that they would expect and demand the same, this however obviously arises from the imprudenco and folly of the enployer who gives such wages, which he ought to know are far beyond the value of. the services to be rendered even in prosper-* ous times, but how much more when from. so many adverse circumstances the prices. of all farm produco are so ruinously low and so discouraging to the efforts of the agriculturist. Morcover there is evidently. a corctous and selfish principle whith, strongly pervades nine-tenths of the labour-. ing class, a sense of duty to their employer or the obligation to serve him diligently therefore do not enter into their considera-. iion, nor do they discover any solicitude for the interest of their employers; an instance. lately occurred which may explain my mesning better than any reasoning upon the subject. A man was engaged to vork on ia farm of one of our landholders $2^{*}$ the'high rate of ten dollars a month and his boaid,' he had three stout fellons from his "own country engaged to assist him, but of course at less wages, after some weeks the threte" assistants were all paid off and discharged, the complant being that when lee was not will them, which I fear was often the case, they did not work, and moreover one of them. was heard to say to lis companions that he: had no idea of fagging where another was. to get all the credit; and such. appeared, to be the sentiment and determination of the: whole threc; other labourers:were' in consequence employed and the work wention, or should have doneso, at last the result-af: the season proved that tho foremaniwasmo" better than the others, was' sliy of;iandiadverse to, hard werk, or indeced of constant work of any kind, and the intercst"of hain: employer did not seem to be more a considi: cration with him than with those who had been discharged, he was then notified that during the winter montis his employer could rol afford to give him the same highit
wages, and six dollars per montitwer offored him during the winter, ho said he was: aware the produce of the farm "would not piay the expense of working it, and yet at the sáme time spurned at the idea of talting the proposed reduced wages, observing inconsistently that for his phirt lic did not think teth dollars per month te all to much, although he just before admitted that he kinew the farm would not repay siph wages. Åhanied; tresunne, of being considered either frofin iticapacity or idloness an uniprö"fitable servailt, he obstrved to a persơn afterwards that lie nevèr knew a farm so badly managed, no doubt wishing to insinuate that 1. had beén futerfered with when hie had in Luth been left wholly to himsélr, and every thing he deéemiedidiceesssary or required for the cultivation of 'the farm was witiont de"lay provided, even thitigs which he never broughtinto usô. "Iis"eimployer, fully satisficd triàt the farm had beeu mismanaged, as the foreman had incantious! y declared, was therefore nof sofry to part with one who with so much boast at the outset, had completely proved hiraself-inefficient. All this may appear: mysterious to somelwho might naturally: inquire where was the employer, and; why, did he not discover and timoly, remedy any deficiencies, the truth must be, told, the employer was not\%a farmermandewas: otherwise \{employed; he thought her had e' treasure; so many were the rare and yood qualifications the foreman: laid claim (to, and it'was not until'the colose of the season'; that is after haryést, that the employer discbrered thät the main to whom heshad confided the thangement of his farm, although honest ànd sobers, was indo-lentil-self-sufficient, inadequate, cáreiess, and without method and his fall mornings pas red'not'in the ficla' büt in'pacing about leisurely; with'a pipe in 'his' mouth and his hands in his: breches pocketse waiting for a substantial breakfaś to róuséchim to scame-thing- like active Exertiön': Y have taýgels been'mínch deceivẽd in the latuourcis 'I buve genérally employed to work my farm to advantage, Tmpiessed as I had been wilh the idearehat emigrants af that ciass haư sublerd $s o$ much "in'thee ola coluntry fron'átrânt "of employinent and consequent poor Tiving, and thet many fron theirinfancy bad beef accustomedr to a scanty allowance of the poorest food; I expected to find theronumble, indutrifons, thankful, and moderate in their demands but expericuce lias taught une, thatralthough the above facts upion whinh I buitriny expectations were truc, ynt diese mèn' werc discontented 'unceasonable, angratoful, and ready to find fault witli evëry thing, and though not required to do more thaniordizary work, blecessary even to keep them in health, they ofton complained: of, what they termed too hard work, and were withal very dxinty in regard to their food indeed moit of them arro of so unsteady and roving a disposition, that they do not appear
to know when they are well off, or aware of the importance of having a quict and comfortahle hone, contunued employment, hiid a' kind employer; and the cunsequence is, and as might naturally be expected, that after changing from place to place and obtaining only occasional employment, even at:high wages, yet after a lapse of two or three years they find themgolves worse off than when they landed in Amorica, pennyless and. in, rags, while at the same time a steady and contented farm-servant will have, within that periot deposited in the Savings' Baik from etuo. to Eto., and is at the same time pcssessed of a good stock of wcaring apparel? Notwithstanding; however, all that thave before stated, I am persuaded that that class of emigrants, nimely; labourers and farin-servants,-might With just and proper mááágément; prôve- à valưable acquisition to ouri population; although unhappily from necessity and want of employment they may háve acquired bad apd idle habits in their nativenland, which they find it afterwards dificult: to overcome, they; therefore overrate jheir sorvices and casily persuade thenselves thay have made wonderfule exertions, when in reality they may not have done moro than one half the lavour that a sen vant ol industrious habits wil accomplish: we how however, that the class of cuigrants to "hath my observations apply; has had the virtue and fortitade' to con"quèr one bad hiabit, and that most of those who of late have emigrated to Ganada not longer indulge in the use of ardent spirits; andizare honest $;$ they should therefore be encouraged; though yot spoiled, buc treated vilh:becoming consideration, not certainly ovenworked, but required to do as much as a faithful servant can and ought to do, and indeed in no country is a lized servant on a farm hetter, or so well, off as in Canala; he is well fed and comfortably lowsedial has Sundays and Yolidays to attend diviné vorsibing and if fattiful and difigent will obtain the cstecm and good wishes or his emplojer ant family, and being remioved from those temptationsito be iound in most دther , gituations, he may with moderate wages, after a smell deduction for wearing apparel, bo able in a. few years to save a sufficient sum to form an establishment for himseff having gainca añ expertience and knowledge of the climate and retsources of hie conhiry, änd acquircd not only a degree of skin buta habit oftindustry, all obtained dúring" süch service - advantägés from whech he was in a great'measure debarred in his native lond, and which this happy change has afforded him. It is now high time Mr. Editor that I thed broughtiny ob, servations to a close, they, having been already I fear extended too far and putyour patience to a trial, to conclude therefore I would recompend ts all farmers and landholders to come to a proper understanding, in order tofix a just and reasonable rate of wage, to which rate when establiohed all should scrupulously adhere in order that it may not afterwards affide pritext for demanding to high wages; that fich
by Mr . - In fixing such rate of wages the interest of , both parties ought.undoubt! edly to beaduly weighed and considered, that a recpprocity of advantigo may preyail, without whin all hopes of an extended cultivation of the soil must be abandoned : the servant must not be allowed what would incvitably impoverish his employer, nor on the other hand the employer become rich by oppressing or by underrating the value of the labour of his servants, it may be theréforc a delicate conclusion; but this, every man of common inteligence and expériéćco must adnit that-iflabour is too high "and oit of proportion to the value of farni'produce: the agriculture of the cutintry 'cainnoth be advanced but mustretrograde. " $\boldsymbol{A}$ thll tines happy to be corrected where. I have 'errod; and to recenve the mstruction I mayube found to need, it will afford me much gratification if at your convenience you would indulge the puble with your own yiews of the subject of this letter, and also your opinion what kind of fare you would recom nend to be provided for farm-servants att their several meals, such as in yourestima:
 farm-servant ought to be content with frana now apolombing for having occupied So much of yourvaluable time, I subscribérngí self your obliged friend and wellswishergor

> AFARMER

 Sir,
it $\rightarrow$
Iraving observed with much satisface tion, and I trust some proft, the very inte resting manner in which you have collected and Jid lefore the public the doings. of Agricultural Societies ; the granting of Premiums'; the state of the Crops: the Mazkets, \&e., for the purpose of exciting a gencrous enulation among fariners for the gencral benoft of agriculture, by yoúriévé I will furnish you with a chapter on theser subjects.

Ist. Preanoys.-I obtained a premium some time since, and like-other people, ${ }^{5}$ wish to make it known, and an it, will moti get out by the Agricultural Society Ir inuct; tell it myself: In October last, I took a loce of wool about 100 lbs . weight, to the Weat, Flamboro' factory, to exchange about four fifths of it for cloth upon the factory terms $;$ and on returning a short time after, the manufacturer frecly, voluntarils, and of his oun assent made a present of soveral yard of liss best flannel, gt the same time sayifis: my lot of wool, using his own expressiont was the best handled lot of wool he had eteril seen in America, althouglt he bad seen finmory Nowifif should inform you the meapt iny Which it became so, it lmay ibe of use, to. some body. As to the finenes of woole $I_{5}$ formerly, improved my stock for that purs pose, until the carders and manufecurert: could do nothing with it but spoil it, I theere fore abated that brajoch of improvement Since, hovejer, the manufaturera lell me? they have machinery that will woty noolor

carefully watch the growth of all sorts of bad roads as in Flamboro' and Puslench, burs through the suminer and pull them up, and the same complaints about the wheat and spare no pains nor distance to place crops. them in a situation where they can do no harm, so that I may venture to say my sheep are kept free from them. I extend this labour and precaution not only to the fields but to my wood lands, as far as my sheep and eattle are allowed to range. The whole time occupied in the summer aeason does not cost more than two or three days of my own labour. The next point to observe in having a well handled lot of wool, is to keep the sheep in good condition by giving them plenty of feed, and by never housing them in close pens winter or summer, and by clipping of all dirty tag locks When they make their first appearance.
In my travels about the country, I have been astonished to see the prevailing carelessness among farmers in allowing burs to grow in front of their own farms, in the fields and sometimes to the very front of their dwellings. Of course in such eases, sheep, cattle, and horses are completely covered with this pest to the tidy farmers, and the wool is not only uncomfortable to the sheep, but 18 of but little value and $1 s$ very destructive of machnery in its manufacture; and all this results from the want of two or three days work of some useless old man or little boy, annually bestowed to thin department of farming.
Now for a few remarks on the crops:-I have been during the past season, through nearly all parts of the Gore District. Some portions of the crop is abundant; oats far exceeds the usual average; hay rather short on clay lands, but abundant where plastered; barley good; potatoes middling ; wheat, the ready money artucle and great staple, very variable, in some places full and good, and in otiers much hurt from early drought and late rains. The earhest sown is the best both of winter and summer wheat, and great complaints of smut in many places. In the early part of last December I passed through West Flamboro', Puslench, and Guelph townships; part of this route is thinly settled. The rear of Puslench is of a very fine quality of land, so is the approaches to the town of Guelph excellent. Farms in this vicinity are of the first quality, although there was rather a falling off in the crops the last season both in quantity and quality, owing perhaps to the heavy frosts which were prevalent in the early part of last summer. After passing through rather a rough part of the country and bad roads, I arrived at the beautifully situated and pleasant an flourishang town of Guelph 27 miles frum Dundas, and 30 from Wellington Square.
On my return I passed through a corner of Eramosa, and through Nasaguawa and Nelson'to Wellington Squarc. Some parts of the route are beautiful, some rough, and

Wish regard to smut, I got rid of it after trying every other experiment, by changing the seed, which I procured from a soil different from mine and of farmers who never grew smut, chess, or cockle. I change my seed as above every two years, and the result is that I am never troubled with any of the calamities mentioned in the foregoing remarks.

The farmers not only complain of the falling short in their calculations respecting the yeld of their crops, but they only obtain one-half the price for their wheat, flour, beef, pork, wool, mutton, butter, cheese or any thing else their farms may produce, in consequence of the carelessness practiced in the routine of the management of their farms and crops.

Whoever will be at the trouble to investigate the matter, will find that although the country is amply supplied with provisions of every description, and a considerable quantity to spare, that the amount of several important articles of agricultural productions are diminishing rather than increasing. There is such a rage for Ameri, can wheat by Canadian millers, and our markets are so completely glutted with American beef, pork, mutton, cheese, and every other United States agricultural production, that the farmers are obliged to desist growing those products for the market, to the same extent that they formerly did, owing to the fact that the great disparity between the prices of labour and the products from the farm, would not admit of huring labourcrs.
The Gore District is abundantly well stocked with horned cat!le, swine, and sheep, and might have exported thes present season three times the amount of salted provisions, had the prices been such as would have remunerated the producer.

With respect to sheep, the country is full of them, so that the manufacturers are entirely over stocked with wool. There was a sale of three hundred sheep in this township last fall, which was advertised long before the sale, and thoy sold upon credit at 2-4 to 4-4 per head: notwithatandiug chis, I am safo in saying, that there has passed up to the Gore District during the last three months of 1842 , not less than 4,000 sheep purchased in the United States. In Hamilton market mutton has been sold out of farmers waggons at from ls. 3d. to 1s. 10d. per quarter, and beef has been actually sold at from 6s. to 9 s . per 100 lbs , so that beef, mutton, and checse are sold generally in our markets at prices much lower than the dutes which the Canadian farmers would have to pay, before they could get the same description of articles adroitted into the United States market.

The American Government protects their farmers against all foreign competition, and we are comparatively neglected by the speculating jolbers who stand at the head of our government : and to make the matter still worse, it is said the Banks discount very little, and how can they when they have to meet the mercantile trade and the provision market. It is thought that the Currency Law has had some share in bringing about the general depression; let that be as it may, so long as the interests of a few speculators are made paramount to the interests of the many farmers and other producers, so long will British America be unable to supply the British markets with provisions, in exchange for the heavy.im. portations of British manufactured goods which arrive at our shores yearly.

I am, Sir,
Yours' respectfully, JOHN WILSON.
Salt Fleet, 30th Jan, 1843.

To the Editor of The Drifin American Culfvator. Sir,

As the season for planting that useful root the potatoe, is fast approaching, 1 beg leave to offer a few simple but hope not inappropriate remarks on the culture of that inestimable vegetable-those remarks having been acquired from actual experience. I shall now and at all other times confine myself to real facts. In the spring of 1840 , I purchased at Toronto, two pounds of Rohan potatoes for fifteenpence. I planted them on the tth of June in new land, which yrelded 160 lbs . of very large potatoes. On the following year 1841, I prepared a.small plot of new land equal to 17 perches, (i. e.) one perch over a tenth of a statute acre, which I also planted about the same time with sinilar seed, and produced $55 \frac{1}{2}$ bushols of very large potatoes. Last year owing to the cold spring frosts and subsequently summer drought, I had not so heavy a crop. I shall now state my mode of cultivation :I first prepared the land by a very good harrowing; then put in the seed after the manner of planting Indian corn, but opening the ground something deeper. In each hill, which are to be three feet apart, I drop three sets, which are to be mmedrately coyered in, and so to remain until the plants are sufficiently high to receive partial earthing, which done, a second and last earthing is performed, when the plants are sufficiently matured for that purpose. This plan I consuder the most judicious as regardis the bulk of crop and improvement of the soil : it also destroys all weeds. I now recommend the Rohan potatoc for extensive planting, being the most prolific I hare crer mel with, and from a year or two's planting in this climate becomes acclimated and an excellent potatoe for table use.
Should you deem the above sporthy a place in your widely circulated and excel. lent journal insert it

> Iremain, truly your's, EDMUND RYAIL.

Oro, February 18th, 1843.

To the Honourable the Legistative Assembly, oc., \&c, \&c.
The Petition of the Freeholders and Inhabitant Mouseholders of the Townshup of Carradoc in the London District:

## Humaxy Shewete,

That your Petitioners are (with at mont half a dozen excéptions) wholly and absolutely dependent for their support upon their alocation as agriculturists, in which many have embarked considerable money capital.

That your Petitioners presume it requires no proof from them to establish the fact that the vast majority, say nine-tenths, of the whole population of the Province are in like circumstances:
That the present low prices of agricultural produce, unnaturally conjoined with:a very indifferent harvest, at least in the article of wheat, are ruinously destructive of their present'prosperity and future hopes.
That your Petitioners cannot but attribute the deterioration of their-productions, in a great measure, to the urirestricted admission of grain and cattle from a foreign country in which such high duties are levied, on the agricultural products of other nations, as amount in many cases, to an absolute prohibition.

That without entering upon the general soundness of the principles of free trade, your Petitioners humbly present it as their opinion that its advocates must be etrangely infatuated who would attempt to hold it-up as a guide to this country in its present circumstances; at any rate it can be characterized as nothing short of madness to talk of free trade and reciprocity between us and i nation whose policy is, avowedly and practically, in direct hostility to these primciples; and whose intereat is, in fact, and in the pery, raturéof things, opposed to ours as an agricultural community.
That your Petitioners cannot too strongly deprecate the doctrine, that the interests of a few firms engaged in the carrying and fouring trades, is paramount in importance to that of the remamder, or rather of the great body, of the people of this corn-growing counury; and they consider that so long $=5$ theae trades have the uncontrolled power of importing foreign grain, and transmitting it as Colonial produce to Great Britain, they are most materially injurying the Canadian farmer by clandestinely facilitating the dis. posal of the products of his great naiural ri: pal, and foressalling him in ihe ONLY market open to him.*
That your Petitioners trust your Honourable House will be guided by that true and sound axiom, most especially applicable to this Province, thiat the agricultural: interest forms the hasis upon which rests the prosperity of every class of the community, and that in the exercise of this safe and sure policy your Honourable House will be pleased to impose such dutiés on foreign gram, flour, live stock, fresh and salt meat, and other agricultural produce, as will afford the Catiadian firmer a full protection from the riyalry of the United States in the home market

## And your Petitioners as in duty, \&e.

Clizeidoc, fanuary 2ind, 1843.
ENor., Imports nto Great Bratin of Forcign Grifífrom the 20 ih of December 10 3rd Japeign: Froni Cineta, 3,969' Qrí. Wheat and $7,360^{\circ}$ bbis. fout Unitid Siates's barrela flour !!! Why this difference 7 : The American produce is brought to Canada med thence transmittod as Canadian; thus fivading the duty which for ithe period quoted was on wheat = Foreign 20s.; Ca uadian 5si; FTour forcign, 12a- $\frac{1}{3}$.; Canadian 3f.

To the Editor of 'The Brition American Cullivator. Sir,

I transmit you a cupy of a Petition to the two Houses of Legislature which was unanimously adopted at the annual meeting of this township; and as a fitting illustration of the evils of which it comp? ains I will mention a case of recent occurrence.

The week before last a large drove of oxen containing at least seventy head were brought across from Ohio and driven to London. The owner endeavoured to get rid of them along the road, offering them at 10 dollars a head; as he eaid he was afraid that when he arrived in London he should be obliged to sell at a lose. Not, however, meeting with customers, owing to the poverty of the country, he proceeded to London and disposed of them. On his return he met with one of the persons to whom he had previously offered his choice of the drove at the above mentioned price, and a conversation ensued; in which the drover stated that he had done better than he expected. for that he had obtained $\$ 9$ ! a head for the lot; and all he had paid for them was 85 !! each. "And," said he, shaking his valise, ${ }^{6}$ I have got the price of them here, in specie, for which I can buy as many more as I choose, and at any price I have a mind to offer; and I shall le back here with another drove in " few tceeks." Being asked if the expense of driving did not eat up the profit, he eaid, "No for he fed them principally on oats which, on the other side of the lines, only cost him six cents a bushel!

I will not repeat some other prices at which he stated various articles could be purchased in the States for specie, as they are $s o$ incredibly low that the very mention of them might subjeci me to the imputation of making a case. But, I' will simply ask our legislators, millere, and carriers, upon what principle of fairness or policy are the people (i. e:the farmers) of this country to be made fellow sufferers with the victims of that over driven and ${ }^{\prime \prime}$ fictitious system of speculation, alias, go-ă-headatireness, the miserable effects of which the Americans are now enduring.
It is to be hoped that by a constitutional combination of moral energy and firmness the farmers will force npon the Legislature, the prompt and grave consideration of a subject in which, it must be apparent, the rital interest of the country is involved.
I will not at present trespas's further on your valuable space, but if the subject is not taken up, as I wish it may, by abler hands, I will shortly again address you, or through you my brother-farmers, on this important topic. I remain, Sir,

Your óbedient servant,
F. JONES:

Carrajog 14th February, 1843.
To the Editor of The Briush Amarican Cullatior Sir,

I bag to enclose you a printed atatement of the affirs of the Gore, District Agricultural Society from which you will perceqive that the society is fourishing, its funds on the increase, and the efforts of many individuals in this section of the Province to increase its usefulness unabated. This society is still inits infoncy, and its management ia suscopible of great improvement; more particularly in piaters relating to'good arable farming and Itrust the time is not far distant when preminma will be offered for the beat menaged farm, that begt drained, beat fenced, dc:, scc, at present. the promium are confined to the beit atock, the best samples of gring and the boid, do medits manuffeturet.

A very convenient alteration has been made in the Cattle Shows by holding them alternately in different townships, instead of having them as formerly always in one and the same place ; this arrangement, it is expected, will induce many to become members of the society who have hitherto stood aloof.

A difficulty occurs in arranging the premiums for neat cattle, on arconint of umported stock and their descendants, as well as crosses between them and native acattle; some of the members being desirous of making no distinction, but to give the premium to the best animal of whatever breed. whilst others wish to class the pure bred stock and even the half breeds. Formy own part I think the latter plan beat (though perhaps you can inform the public what is the practice in other societies), inasmuch as half bred Durlams have invariably taken the prize whenever exbibited against native stock. This class of stock is now becoming very numerous, and there are some splendid speecimens in this District sired by one of Mir. Wingfield's (the importer of Mr. Howitt's stock) bulls Rodncy, reared by Mr Wetenhall, and sold by him to the Durham Agricultural Society, (see Albany, Cultivator, vol. 8 , page 194, article 4 Wellington and Gore Agricultural Societies); also some fine animals sired by Mr. Wm. Davin' bull Remus, a 'walking mountain,' bred by the Hon. A. Fergusson, of Woodhill.
I believe there are only three individuals in the Gore District, who possess pure bred imported Short Horn Cows and Heifers, viz. the Hon. A. Fergusson, Mr. Wetenhall, Warden of the District, and Col. Burrowe of-Brantford; but there are no lesí tham eleven different stands of pure bred bulls, viz, one in Trafalgar. two in Nelson, on in East Flamborough, one in WentiFlam: borough, two in. Dumfries, two in Brantfords one in Glandford, and one in Barton. By pure bred animals I mean those only that can be traced to the Herd Book on the side of both sire and dam.. All the above anis: mals are, such. You will thusiobserve that; whilst the pure herds are confined to a:very few individuale pure tred bulls are monting their wày inio every township, and thus that' the breed of cattle in this District will bel materially changed in the course of 'a.few yéars.
I am aware that many owners of pure stock deprecate the idea of crossing, but' with every respect to those gentlemen $I$ beg to differ with them in 'spinion, tand I' venture to prophecy that many jeary will not elapse before inhabitants in this District will possess breeds in cvery respect equal to the best injported catle, and that:atoo without purchasing pure biedicowis or beifet ers. I' own that this process js slow; and that' the 'readiest plãn is to procure pure. bred females, particularly as thus'the'wint: of pedigree and loss arising therefrom will be obvated ; but etill I maintain thaten'y farmer who will select his best oow's apl: have them served by a food paire bred bull, and put his heifers so rained alco to a pure bred bull, and thus concinue step by tep to. approach the pure breed, will eventuaty have animals. equal to the best importer Short Horns; the fact Sis that attomptrib: breed between crosses having generally failed; in idea is entertained thath the firet. crobses only is valuable but the faltioes with the breeder, who, in his'igoorances, makes'use of a half bred boll. instead of continually improving hie tock iby the wervices of one pure bred, acoording to the plan . suggeted above. In support of this opinion I refer to Rév. Henry kerry's pamphletion ShortHorns. I inm, Sir, your-wolliwishotw


## DUTIES O゙ ズARMERS．

Among the many duties which devolve upon farmers，there is none of higher un－ portance or to which is attached a greater share of responsibilty，than that of afford－ ung to the rismg generation the means of matruchon，and the facihtes for cullivating 1 tis mind．It is in vain that we talk of m frowing the soil and clevating the standard of agriculture in this country，while the youth，the sons and daughters of farmers， are dened the privileges of education and moral culture，which every sound and think－ jng mind will admit are necessary to enable them to pursue their avocations with plea－ sure and profit，and to discharge in a proper manner ther duty in the vartous relations of life．

The subject of education in schools，is of vast mportance to tarmers，and may wath propricty be discussed in an agricultural journal，；but we intend in this artucle only to point out some of the crrors and oms－ sions of duty with which mony farmers are chargeable in the education and tranang of those who are soon to enter upon the stage of action，and to whom the agricultural th－ terest must look for its friends and auvo－ cates．Education does not consast solely in the koowledgegraned at schools．＇itre has－ tory of some of our must emment men shows that individual exertion，when and id and encouraged by parental advice and and， may be the means of acquing a degree of knowledge and of reaching a positwa winch the mere adiantages of school could never afford We here repeat，what we have ulten ineffect sad，that self－culture is more ne－ glected among farmers than any other class of persons．It is time that there was a re－ form in this respect，and we are happy in beng able to say that there is evidence of its commencement，in the desire of agricul－ tural reading，which pervades to some ex－ tent the youth of this country．It is the duty of those having the care of youth，co to encourage the first appearance of these desires，as to form permanent habis，and a disposition for investugation，which always leads to valuable resulis．That father，who， when his son discovers evidences of a tund ness for agricultural pursuits and an incis－ nation to store his mand with that mforma－ tion which may be derived from the caperi－ ence and wrings of othere，wathholes the means of gratifyang these molinations，fia－ ces lumself in an unenstable position and can blame no one but haself，if his eon does not pursue that course of conduct which he could desire．The vouthful mind is never mactive，and if it is thwarted from its laudable melination，will be very hikely to engage in the pursuit of objecta which it would be wiser to evord．There is no sub－ ject in which the mind of youngrmen can with more propriety be employed than in the improvement of agriculture，and we thonk the judgement of our readers will comcide with ours，when we say that the surest means of leading the mad to an investiga－ tion of agricultural science，and the best means of accomplishing oluects or miprove－ ment is to place before them publicatons which have lor their amm the good of agr＇－ cultural anterest．Often have we heard the boy of twelve or fifteen years，urgo his fa－ ther to a abecribe for an agricultural paper， which cople be had for fifty cents or a dol－ lar a year，promssing to read it attenively， and in some instances to work out and earn the subscription moner，while the father would utterijy refuse to allow hirn the privi－ loge of storing his mind with information， whach might．be tho means of adding．great－ ly to．his usefulness，and prevent hum from acquiging habits，of dissipation and dleness．

And why is the refused？Simply because itwill cost a few shallings a year，whild as many dollars would perhaps be freoly ex－ pended on objects which can be of no posci－ ble advantage to the youthful mind．I＇here are hundreds of such cases oven in this an－ lightened commanity，and we wish in a res－ pectial manner tu call the attention of such individuals to the subject，and to show them the nature of the responsibility which they have thus voluntarily assumed．
we would elevate the character of the farmer，we must enlist the feelings of the youth，thus enabling them well to act their part in the duties to whach they will be cal－ led．Where is the man who is willing to stand in the way of improvement，by keep－ ing as far as has intiaence goes，the sons and daughters of farmera，ignurant of the means of tuprovement which shall be extended to them in their youth．Every opportunty should be cnibraced to impress upon young fereons the auvanta，es，as woll as the res－ pectibility of agricultural pursuits．

When we hear a young lady，and the databiter of a farmer say with an arr of con－ fidence that she cares nothing for the inter－ ests of agracultare，and that she feels far gecate：witerest an attending balls，and dar－ cmig schouls，than a readius publications devoled to the improvement of the business a viluch der parents have obtained an hon est lubng，and perhaps amjssed a fortune， we generally conclade that clthough the fareats may know vory well how to take cate of dullars and cents，they must have negiectel the education of thear children， and are accountable for a volation of daty wot ol．ly to thrir falaly，but to the circle at which the chi！dren are to move．We have heard yung ladies openly avow the above sent，meats，and have felt paned on account of their irnorance，while they supposed themselves well inforined，and well educa－ ted．We are happy，however，to say that a very great portion of the females among the arricultural portion of the community， exert all thear influence in favour of rural pursuits，and that mach of the spirit of im－ provement，which is now every where wit－ nessed as well as a great proportion of the inte，est whin ta mamented in agricu＇tural cshbutions，may be farly attributed to tha infuene of feriads．Let fathers and muthers discharge thic duty in a proper rnanner，and cducite their chuldren co as to c rourufe rathre than repress a fondness for agricultural pursuts，and Lhe time vil＇ soin come when agricalture，instead of beng looked upon wilh disdain，will engage the attention of the young and hold a lugh place among the occupations of ife．

It is too often the case in this country， that young men ustead of relying on their ow in powers of mind，to investigate the dif－ ferent and varied subjects connected with agricultural pursuits，rely solely on the knowledge whel their fatier can impart， and never dream of turning aside from the track which others have pursucd before them．

We recollect on one occassion mecting with a farmer whom we invited to subscribe for our journal，and mquaring the price and the objects of tl：e pajer，he inquired of his ron，a young man of perhaps sixteen nr eighiten geurs，if he would like to hare an agriculural papre，to trhich he replied that he wanted a paper that had fuing stories in it．On our remarking that a knowledge of agricultural pursuits，was of far greatér con－ sequence to a young man than a perasa？of funny storics，he very promply answered， ＂l can leatn cnough about farming from Dad．＂We fear that lass opmion is far too prevalent among the sons of farmers in this country，and that fley rely more on Dad
than on their own exertions．We ask fart， mers，and the friends of agriculture，to think of these thinge，and see whether their duty does not require that they place within the reach of tho youth in their charge，informa－ tion which shall enable them not only to make a proper choice of business，but which Wall cualify them for the proper discharge of the business of their choice，Central Neto．Yorh Farmer．

Aobiculture Statistics．－From ance－ amblation of the Marshall＇s Returns at the last United States Consuf，it appeare－That the State of Ohio，raised more Wheat than wy other State in the Union－exceeding Pennsylvana by by about $8,000,000$ bushels； and Pennsylvana exceeds New－York about $2,000,600$ bushels；Virgmia about 1，500，－ Otw less than New－York．New－York，how－ ever，exceeds Pennsylvanja 11 Rye，about 3，（H1），000 bushels－Indian Corn，2，800，000 bushels－Oats more than 2，000，000 bushels Buclis heat， 300,000 hushels－Barley，2，200． （ro）bushels－Patatoes， $21,000,000$ bushels - Wnol， $1,000,000 \mathrm{lbs}$－Hay，nearly 2,000 ． （00）tons－Sugar，over $8,000,000$ pounds and products of the dary，upwards of $\$ 8,000$ ， （th）dollars．The State of Tennesce raised 42， $2[4,000$ busliels of Corn，excceding any other State in the Unon．North Carolina， $34,500,0 \times 0-$－irgıma，34，000，000－－Illinois， ＊y，0t（0，000－－Michigan，22，（000－－－Alabama， 18，1000，000．
Of neat Cattle，New－York pussersess 2， 642，433，lemeylvana， $1 ; 146,418$ ；Ohio， 1，0u3，313．Of Sheep，Newarork，has 5，－ W1，255；Pennsylvana，3，346，431；Ohe， 1，963，957；Venmont， $1,393,420$ ；Varginia； $1,230,736$.
In the products of the Orchard New－ Lork and Vermont have nearly double the amount of any other．State－the former be－ log to the ainount of $\$ 1,737, \$ 57$ ；the latter $\$ 1,109,287$ ．

There are many other ftems which we sutecd to gave hereafter．The resources of our country are abundant．If our citizens wall ouly enconomize－purchase no more toreign articles than are absolutoly neces． sary for their wants－ilie tune wall soontar－ rive，when the pressure which is so hearily felt，will pass away．Wemust return to a system of economy in every department of hite．Frugality and andustry are absolutely necessarily to the prospenty of tusicountry． We must learn to live mofo within．our－ selyes，if we would te prepared for exigen． ces，such as：we naw winiess．m－Ib．

Indestry．－Wvery young man slinuld re－ member that the world always has and al－ ways will honor industry．The yulgar，and． useless idler whose energies of mind and body are rusting for want of exercise－the mistaken being who pursucs amusement as a relief to his enervated muscles or engage＇s m exercises that produce no useful end，may look with scorn on the smutty Jabgier en－ gaged in his toil．But his scorn is prajso． His contempt is an llonor．Honest indus－ try will secure the respect of the wise and the good among men，and yield the rich， fruit of an easy conscience and give that hearty self respect whicn is above all price．
Toil on then young－men Be－diligent in busness．Improve the－heart and the mind and you will find the well－spring of enjoy ment in your own souls and becure tie con－ fidence ind respect of all those whose re－ pect is worth an cffort to obtain．

Maxim of Llendrg．－Sir William Zato－ plo eays：－c＂The only way for a rich man to be ficalthy 18 jo live as if he wrs poot； using exercise and observing absumence．＂

PROGAOSTICS OF THE WEATIER.

## frognostics furnished by tic heavenly

 BODIES.1. Observationsof the Sun.,-Stigns of the Wind.-The sun rises pale and remains red; his dise is very large.; he appears with a red sky at thie north; he maintains the colour of blood; the remains oale, with one or more obscure circles or red rays ; he appears concave or hollow. When the sun seems- divided or is accompanied. by a parhelion, it indicates a rreat storm.

Signs of Rain.-The sun is obscure and as it were hathed in water; he rises red, or with black stripes mingled with his rays, or becomes blackish; he is placed above a thick cloud; te rises surrounded with a red sky in the east. Sudden raius are never of long; but when the sky is changed gradually, and the sun, moon and stars are obscured by little and little, it rains generally for six hours.

- Signs of Fair Weather.-The sun rises clear, and the sky has been so during the night; the clouds which surround him at lis rising take their course to the west, or indeed he is environed by a circle, provided that the circle is at equal distances on all sides; then we may expect weather constantly fair; he sets amidst red clouds, whence this popular saying that "a red evening and a gray mornitig are sure signs of a.far day?

2. OLservations of the Moon--Signs of the Wind.-The moon appears very large;
she puts, on a reddish colour ; her horns she puts on a reddish colour; her horns bya distinct and reddish circle. If the circle is double or broken it is the sign of a tempest. At the new moon there is often a change of wind.
Signs of Rain-Her dise is pale; the extremeties of her crescent is blunted, The circle around the moon attended by a south wind portends rain the next day.-
When the wind is south and the moon is When the wind is south and the moon is
visible, only the fourth night, it portends much rain forithe month.

Signs of theiWeather.-The spots on the moon are very visible; a brilliant circle surrounds her when full. If her horns are sharp the fourth day, it will be fair, till the full moon. Her discovery brilliant three days before the change or the full mon, al-
ways denotes fair weather. After each Ways denotes fair weather After each
new and full-moon, there is often rain fol: lowed by fair weather.
3. Observations. of the Stars.-Nigns of Rain-They appear large and pale; their twinkling is imperceptibie, or they are encircled. In bummer when the wind blows from the east and the stars appear larger thon usual, then look out for sudden rain.

Signs of Fair. Weather and Cold.-The stars appear in groat numbers, are brilliant
and sparkle with the brimhtest lustre.-From and sparkle with the brightest lustre.-From the Finrm House of the XIXth Century.

Caurion ro Mresers-Under this head we find an appalling story, which may interest some of our pillers to peruse--NewYork'paper.
"Recentiy a Miller near Móobilo, for some purpose or other, poured several pounds of inelted lead in the eye of the runner stone: The lead becoming loose and working between the stones, was ground up with the corm ninhe meal was consumed on the plañtation of Mr. James G. Lyon, and a nimber of hien ingroes were poisoned by it, 今ome of Whom died, whiler othert were paisied gind altogethor hopelde. It is said to te a com-
ron thing formmilles to use pead in this raon thing formentlarg to use gead in this Ways:and uhe mixhortupe just rolated ought
to be a suficient warping againgt it A cimilar accident occurredrecently in Entope."

## TIIE ORCHARD.

In this deparmment thero is but lute to be done during the winter. The fences should be kept in repair, to provent catto or sheep runnugg into them. Should the snow fall deep, and remain long on the ground, it is well to go through young orchards, and tread the know hard about the trees, whel' will prevent the mice from making their nests at tho root, and gnawing the bark therefrom: Should it hapen, that any tree becomes so unjured, by fitung, ma fow pieces, in the spring, they may be saved. Directions for this, will be given previous to tho scasion for doing it.
It is the practico wath many, to prane their orchards during the winter; thashould never be allowed, unless for the purpose of removing diseascd wood, eggs of insects, \&c. When large limbs are cut from, trees, the young growth protrudes from between the bark, and wood much sooner when the limbs aro talken off after the trecs havo leaved out, than when taken off in the wimter,
With regard to pruming, I wonld say", be carc. ful: as there are nune orchards and nurscries mjured by over-pruming, to one that suffers for the want of it.
The cause for injudicious pruning, is the mis. taken idea that many have, that trees derive all their nourishment from the ground, and that by taken off a large proportion of the top, tho re. mainder will receive all the nourishment, that the whole top did before pruning. This is not correct; as by.far the greatest proportion of the woody, or carbonaccous matter, is taken from the atmospliere, by the leaves, and although the rools may contiuue to furnsh the saine quantity of water, 1a, the form of sap, as they did before the top was diminghed, yet for the want of leaves to claborate and furmsh carbon. in due proportion for the process, there is not that guani:lity of wood formed, as when more of the leaves are allowed to: remain; hence, nurseries overtrimed, we see that the young trecs have not sufflcient wood, in the form of body, for their height, which-often renders them worthless.But more of this anon.
As winter is a convenient season for collecting coms for those who are hishing to improve the qualty of their fruit, cither in their gardens or orchards and premisug that there at least a few of our readers that are not familiar with civery part of the operation, we will give such directions as will cnable them to autend to this part ot the business themselves.
Cions should becut, in all cases where it is convenient, from bearing trees; as in that case, there is less danger of mistake as to tho quality of fruit. The part selected, should be the last seasnn's growth; where it is of fair size, and well ryened, and cut with about one inch of the precceding year's wood. When cut, they should bé carefully tied into bundles, and a label attached to each marked with a peacil and notehes, or with notches alone, to danote the varicty:When collected, they may be placed, in a perpendicular position, with their but inserted into the ground, about an inch; or where large quaniaties are wanted, they may be buried in a pit, in a dry, zandy soil, dug from one to two feet, as the nature of the case may require; the cions ta be laid in honizontally ; the pit first coverediwith a board, and to the depth of from six to eight inches, with earth. Clons, well secured in this way, may be kept until the second season.

The kinds of fruit commonly cultivaled by graluing, aro Apples, Pears; Quinces, Plums and Cbenics. Theresare others that aro grafted, but not so direcily intereeting to the farmer:
In collecting cions, mayy run into error, and and appear to act upon the prineiple, that the value of their orchard will be in proportion to the number of rarieties ingoduced. By selécling about twenty varieties at our miost valuable ipples, a bait may be 80 arranied thas a consant cupply, of bola sweet and sour, may be had at all seatons, and thege again may be proporitiont odito the wants of the cultivator, and the market for whlych they are designed.'

I will give ne list of much opples an 7 and ac. quainited with, which $I$ would recommend for

the various names by which I have known then designated in different localities. This' will be continued in subseqnent numbers, including Apples, Pears, Plums, Chames nnd Quinces ;'and nhhough it may not in all cases correspond with all publicanons on this subject, it will eñabilo those desirous of iniprovaig there fruit, to find them in most of our apple-grewing districts.

Junetting or Juneating.-Thus is the firgt np. ple that ripene with us, that has many qualities. Tho fruit is below medium size; ifs color at ma, turity, pale yellow; its form, globular, some whint compressed; its flesh, tender, juicy, but raher acid, yet pleasant. It ripens carly in Au: gust. The trecs are of moderate growth and stze, forming a flat, compact top; limbs, désif tute of spurs as a fow of the buds, except at the cxarimy of tho shoot, ever push out; conse. quently tho trecs are indifferent bearers, produ: cing fruit only at the exirematy of the preceeding year's growth; tho limbs also stanting from the same joint with a stright growth, forming be, tween them. acute angles; by this peculiarity, tho trecs are readily distinguished from any others. I have secn four distinct varicties of this kind of apples; all possessing ihe sime ge neral famhy characterisfics as to growh, time of rupening, \&se; yet all differént.

Golden Sweet or Golden Pippix,-This. whp ple, which we do not find described in any publication, is extensively, culnvated in Weatern New-York. It ripen eatly in August. "The fruit-1s not over medium siza oblongr smooth skin, green unul ripe, when it changes. to a greenish yellow; flesh, tender, jucy, and plas: santly sweet. The tree is a free. stower, limbe, inclining to horizontal; young wood, covergh with down, somewhat resembling: the wood, of the Rhode Island Greenings, The tree is o. Fap bearer, and should be found in cyery collectiope

Baugk, or German Baugh. -One of our most delicious, eariy apples. It tipens from the middle of September. The fruit varying much in size, from below mediam to "Very large; shape, conical, and remarkably tair;-colour, pale'yejlow, whit a slight blush on the sumy side; flodits whise, tender, jaicy, pleasantly stivect. Tree, of moderata growth; limbs, covered with a light yellow hark, turning from an honizontal to an upwright direction, forming a close, globufat shaped ton. The tree a steady but moderato bearer.
 Apple.-This is an apple somewhet dxtentivilya cullivated in Western New-York, and is certiais: Iy one of our best early autum apples. It com. mencesmpening in August;and continuesthrough the monih of September. The fruit is labove medium size, rather fiat in shape, the bye and stem sunken, skin amooth, and streakediwith dull red, on a pale yellow ground; ficsh, uncommonly iender, juicy and pleatantly acid. ár The tree of free growth, limbs inclining to horimomak; with but forr spurs; yetthe tree is a fair boandron

Red Bell.fower,-This is:one of the yery largest apples we have. Its shape is conicsi. measuring three and ifrce-fourth jinches, in, length, and fons in breadth, or diameter, It colour is a fine scarlet, on a yellow ground: Elesh when ripe, very tender, and plearianif acid, but not very compact, as an apple of the above dimensions will only weigh abouthoner poind. Its ripens late in'September und 'early'? in October, and on account of its nizevis cobmian dered by many; a great addition, to tha deperteThe tree grows freely, witi an uprightiph pind is a fair bearer
 large gize. often measuring from twelte to thite teen inches in circumference. Its ohape fa comin cal, measuring with an meven surface:A Coldarit
atriped with red and green; flesh soff, not ow or pact, but plesoantly Eweet ; is fine for thëdecm, and baking ; it ripens in September. The tree pa strong; upwright growier, but not this mont

 the fable, mike a great show. Thio ingailitio appie for bakifis.

 its coldat stnped with sed and yollowe its Artroned ficatr tyitue inolined toncillowi

September and will keepinto October. It is a delicious fruit. In some points this appie, cultivated in Western New York, does not agree with the discription given by $\mathrm{CoxO}_{4}$ of the sum. mer Quen, yet I conclude it must be the same apple. I have never noticed any inequalities about the eye. It ripens with us in the month of September, and may be kept until October. The tree is of vigorous growth, and a constant betrer.

Tcol's Indirn Rare.Ripe--This is a fine, large, conical shaped fruit, of a yellow colour, with a fine bluak on the sunny side; fleuh, white, juicy, and remarkably tender. so much so, that it frequently breaks in pieces, in falling from the tree. Flavour, briskly acid, but plensant. The tree is of an upright. thrify growth; the young wood, covered, with a redish bark, and remark, ably hard.

Orange Swecting.-The fullowing discription. I copy from Kennck's Orchardist; "The fruil 13 rather large; flattened in its base and summit; the colour, yellow, or orange; fleah, very sweet and excellent. It ripens in September, and will keep till December. This fruit is in high e timnrion in Providence, R. I., where it is brought in sloops, from Hartford, Connecticut.
Frolland Pippin or Fall Pippin.-In describ. ing this apple, I would remark, that there are a number of apples called pippins, all large, and somewhat sumilar in appearance but this can he diatinguished from the others, by its emnoth skin, and greasy feel. The colotr of the apple hefore ripe, in a full green, and has upon the skin, patches of black, or what is often called mildew; when ripe, a full yellow; flesh, white, tender, juity, and of a plesant sub.acid flavour. The tree growz with a large, upwright limbs, covered with a smooth, dark-coloured bark. The fruit npenes in October, and will keep till the middle - January.-True Genesee Farmer.

## [Continued from first page].

The Secretary James S. Wettenhall, Escr., in his address to the Township Directors, remarks thus:-"The Secretary calle the attention of those who subscribe or are intending to subscribe to Tame Britisis Ainerican Culfivator, that he will receive their subscriptions, and the extra coppes allowed to him as agent, will be handed over gratuitously for the benefit of the Societyfor instance :-
$\left.\begin{array}{rccc}6 & \text { Subscribers } & \text { will give } \$ 1 \\ 13 & \text { Do. } & \text { Do. } & 3 \\ 70 & \text { Do. } & \text { Do. } & 20 \\ 150 & \text { Do. } & \text { Do. } & 50\end{array}\right\}$

And as Government gives two dollars for - viery one (dollar) subscribed; 70 members setiog their agricultural paper through the Secretary, the society would benefit $\$ 60$, a laige sum at no cost and but little trouble. Were éack Director also to receive submeriptiois ind pass them over to the Secretiry, 2 considerable amount might by them be:got for the bevefit of the socicty. The papers subscribed for will be sent to the Poot Office direct from Toronto, free of postage to the subscriber."
We'trist that the above suggestion will be generally acted upon throughout the Province, and by a little exertion on the part of those who know the yalue of knowledge, our shect will find its way into every form, bouse in the country within a very few уепғн.

## ., CONTEATS OF THIS NUMBER.

Normal School-Gore District Agricultural Societ
.r.t................................
Sub-woil Ploughing-Fira Blight-Wastern
Ditrict Jiterary Inatitution...................
Axricultural Report for Canada East. . 35
Montreal Markets-Good Advice............. 36
Ireparetion olHame or Bacon-Graud Pro viriciat Show. 37

#  <br> LLOXD'S PATENT IMPROVED CANADIAN PLOUGH: 

## Manufactured at thc Agricultural Forge, Lot-street, near Yonge st, next Door to the 'Toronto Factory.

TTHE above Plough is well worthy the attention of the Agricultural Community ; ane 18, in fact, considered by those who have them in use, to be equal to the Scotch Plough in domg good work. On new Farms they are superior, being lighter to draw, and from their peculuar formation, much easier to hold or handle; ar: also, from thoit strength, durability, and cheapness, the Farmer will find thent unsurpassed.
Tue Manufacturer is confident, that when they become known, they will take preced. ence of others now in use; he therefore sohcits a liberal share of patronage, and at the same tume begs to assure the Agriculturists, and public generally, that no ondeayour will be wanting on hus part to give enture satisfaction to those who may favour him with a call. A liberal discount will be made to Merchant and Wholesale Dealers.
J. LLOYD.

Toronto, February 24th, 1843.

Importance of warmth in feeding Cattle-
Winter Management of Becs.............. . Unburnt Back Houses-Hard Times ... .. 40 Resolutions passed at Newmarket, on the establishment of Manual Labour Schools 41 Orgmal Correspondence......42, 43, 44, \& 45 Dutues of Farmers-Agricultural Statistics . 46 Prognostics of the Weather-'Tho Orehard 47

## S'T. CATHARINE'S NURSERY.

THE SUSSSCRIBER contanes to culinvate, and has now on hand for Sale, an extensive assorment of chomee FRUIT TREES, and he assures purchasers that every effort will be made to meet their wishes.
IIe would also state that he has good rea sons for reminding correspondents of the necessity of paying their own postage.
C. BEADTE

St. Catharine's, Feh. 8th, 1843.

## TORONTO MAREETS:

For the Month cnding 23th Felruary, 1843


Orders for The Cultivator will be re* ceived at the Star and Transcript Office: British Colonist Office; Wesleyan Book Store ; J. Eastrood \& Co.; Iyman Fart \& Co. Druggsts; James Wickson, Markọi Black; Richard Brewer and G. F. Hasne, Bookbinders; George Leslic, J. F. Weitiland, and J Fleming Gardeners and Sed Merchants, and Jno. Henderson, Merchant, 1ot Strcet, West, Leslie Brothers, King-sí.
Fensons authorized to receive:Subscription for The Brilish American Cultivator areAll Yostmasters throughout British Ameriea -all Newspaper l'ublishers-and all Secretarieg of Agricultural Societies.

In addition to the above, we kindly, eolicit, all Country and Village Merchants' and Farmers having infuence in their respective: neighbourhoods, to procure Subscribers.

## PUBLISHED MONTHL

Wh, EVANS, EDITor. W. G. EDMUNJSON,

Publasher and lroprietor.
To whoni nll Orders and Communicationsmuet be Addressed, (Poot-1raid).

TERMS-ONE DOLLAR RER ANITUM, PAYABLE INVABLABLYIN ADVANCE.

CONDITIONS TO AGENTS:
cories.


Rates:Of, ADviptising-mour Pence as sine for one insertion, and Two Fencects Line for, every subsequent insertion. is :

## Pringed pat the siar and Tringicrimit

apu! Gehernl Adrertigor"gipiom
160 King Staeet iformatorly somi-
Every Description of Book H Joh Printitit
ncally Execuled on the Shortest Fation.

