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# THE BRITISH AMERICAN <br> CULTIVATOR. 

"Agticulture fot only gives biches to a nation, dut the oney mehes she can call her own."-Dr. Johnson.
Yol. 1.
TORONTO, FEBRUARY, 1842.
No. 2.

## TVE OUR FロVATOR.

## Toronto, Pebruary 1, 1842.

Solicitous to render our Publication worthy of the extensive patronage we hope to see it apeedly acquire, and to make it equal (not to say surpass), any of a similar character published in the adjoining States, the great curculation of which throughout the Canadas, proves the expediency of some excrtions being made towards the "manufacture" of one at home. We have this day, the satisfaction of avnouncing the gratiffing mitelligence of the acquisition of an Assistaut to our labours, in thes person of an indiyidual with whose name the public have been long familiar, and whose works on Agriculture fairly entitle him to rank among the foremost of those authors who have written on thes partucular branch of science. When we announce that Mr. Willinam Evavs, of Cote S. Paul, near Montreal, has kindly consenied to undertake the arduols and responsible task of editing The Beitish Averican Cultivatoe, we tryet the public will receive the announcement $\mathfrak{z s}$ the surest Guarantee of our detormination to leave nothing undone which labour and talent can command to make our Paper, what it is our ardent desire to see it become, the very best mediute of information on the seyeral subjects it embraces, to be obtained on this side the Atlantic.
Bir. Evans is himself practically conver. sant with Farmoing in all its $i$-anches, and his long experience of what is most expe. dient for the proper cultivation of the soil, and the management of Stock cannot fail to render his statements well worthy the attention of the Farmer.
Add to this practical experience, his perfect familarity with the theory of Agriculture; hus extensive knowledge of the best melern works, and of the most recent 1 m provements on the science, together wath has acknowledged talent as an agreeable and eradite writer: and we Ratter ourselves our readers will bo as much gratified with such an accession to our cause as we aro ourselves. Our readers will peruse with pleasure, his Introductory Address to the Yeomen of these Proninces, which is to be found or Page 20.
We shall ourselves continue to receive Cormunications as usual, from our friends and supporters; to answer inquiries; and to intersperse remarks throughout the ca lumns of The Celtivator: as well as to zelect from Standard Works and Contemporay Papers, such pjecss as we shall deem worthy of insertion for their general utility, but in all cases Mr. Evans will contribute the leading Editorial articles.

We take this ryportunity of expressing ourselvés decidodly on a matter of impori. anco to the welfere and existence of pur work, viz: thie necessity of recciving in adrance, the small sum wo have charged for our Paper, and our resolution to insert na nanes on our List of Snbscribera, bat
those who shall have actually paid their Subscriptions. This is a "sine qua non"a storn necessity in fact which wo wish once for all to impress upon our readers: and on which we have been induced to remark, in consequence of the receipt of numerous orders from various parts of the country, unaocompanied however, we regret to say, by the only key which can open our distributidn chest-the money. It is our purpose to citculate, as widely as possible, the first nuraber of our issue, as a sample of what we propose to produce, and we have accordingly never failed to address one to every person from whom, we have received the sort of ofder alove specified. To such we shall be happy tho remittance of our future numbers, as soon as thois subscriptions are received.
We havo at congiderable expense, engaged two suitable persons, as vur travelling Agonts, to make a Tcuf through the Province, to procure Subscribers. We hope the Farmers generally, will give them a hearty welcome, and assist them, as far as practicable, in their laudable undertakng.
We promised in cur last, that the public should hear from us again on the subject of the "Uuburnt Brick Houso." We give be. low a Communication on the subject, and we feel eatisfed it will be perused with pleasure by our readers. The article alluded to came in at such a late hour, that it could not be placed under the head of "Communcations", and in order to"give it to our readers without delay, we have excluded mach interesting selected mafter and Engraviags.

## [comacticatron].

To the Edtior of the Brulth Amtrican Cultirator. Str:

As you have requestod me to furnish you with such information as I pos. 388 , respecting the new style of building alluded $t$ in your last, and as I should be truly glad to aid you. in the smallest degree, in your laudablo undertaking, especially in attempling to extend the knowledge of an invention in which I have always been deeply interested. I shall not scruple to lay before your readers a plan statement of what I know about it. Perhaps I shall be pardoned for staing, at the outset, that if I am not the person who introduced the fashion into this country, at least I am not asyare of any individual attempt of the bind on thes side of tho Atlantic, until I orected my druvinghouse in 1835. Iodeed I am a litile ambstious on this point ; for it would give me the highest gratufication to be considered the origanater of an invention so aselfil as this is, and 80 particularly adapted to the wants of the chrmate. Nothing, it is sand, contributes 60 much to stamp the character of a people, in the estimation of atrangers. as the stylo of the dwollings they untabit. Whether, sir, I shall get the credit of a successful projector or not, I can assure you I had my shase of the obloquy sahich pro. You coald have been with at the begmning. You would have been amused to have heard ment by passers-by, when they found moty-
occupied in "bullung with mud." Some said ilat of course the first rains would wash it ell level, and that thero would be no passing along the turnpike road for the dirt which would inundate it. Others did not go that length, but were novertheless quite positive that it would uever stand the intense frosts of this country, hich, they said, would cramble it into dust in a single season. Taken as a body, the only gentlemen who gave me an encouraging word, were those of Dutch descent, who frequently said, "let it go on, that will do, that is a good invention. With the generality of peoplo my poor hand-work was as much an object of riticule as ever the palace which the Russian Empress built of ice could be to the beholders. You will not therefore think it strange that I should wish to get the credit of $1 t$, now the thing has succeeded. Great improvements have been effected, by myself and others, in the details, since that my first effort. And, proceeding from this, as the head quarters of the system, this style of building has been more and more adopted, in many instances by gentlemen of the first consequence, without my having yet heard of a case where any ome is dissatisfied with it on trial. Since finding that it so fully anrwered my expectations, I have lost no opportunity of recommending it to others on every occasion, and - know that you will be doing a great public good, and gain applause for yourself by widely ex?ending, as you sir wall have the power of doing, the knowledge of this method through the proviace. That 1 conedder the material quite good enough for the construction of a handsome house, is proved by the attempt which my ${ }^{\text {r }}$, ends and neighbours bnow I have been engaged this last summer in making, to produce a dwelling which shall not do discredit to the township. I have been also repeatedly applied to for usiructicas by gentlemen anxious to adopt this plan, and have sent workmen in consequence into various districts, and in iwo or three instances into the States.

You call this styic, as many others do, "the unburnt brick house," and we frequently also hear it called "mud-bunlding." I would not quarrel with the name of any. thing, if it was not calculated to mislead.And as I thank it of consequence to gwe this art a correct appellation, I will venture to suggest the name of "clay-building."The first thought which " uaburnt-brick" conveys, is of the very thung which the brick-maker produces, except that it se not burnt. This is by no means the case, and persons anacquainted with the matter, excepting by the namse, might dismuss it, as bcing an absurd thing to save the expense of burning where fuel is so cheap. On the other hana, persons hearing it called moudbuilding," migit hastily suppase that any soil in the state commonly called mud would scrve the purpose, and this mirght lead to lamentajle failures. If you call it "claybuilding," you name it after an ingredicnt which il a.ust possess in order to succeed, and posscssing which in ang considerable propurtion, it can hardly fail. Tho Devos-
(rrmbiturd on lase Pare).

## To provent tho Girding of Trees by Mice in Winter.

We find the followarg paper anong the Memoirs of the Mrasachusetts Agricultural Eociety. published in 1810 :-

## To the Hun. johis Lowell, Esq.

Sir,-The sery great destruction of fruit trees, occasioned by mico and mules, during the winters of the two or three last years, has made it an object of the utmost mimportance to discover the best means of preventmg the mischuef, or to invent a remedy for the evil, after it has taken place. So prodigrously have these pernicious vermin multplied of late, in some places, as to threaten the destruction ilot only of fruit trees, but also of forest trees, and the grass of our beest nowing fields. During the winter of 1808 and 1800 , they were known in some cases to attark a whole copse of small trees, leaving scarcely one ungirdled; and in many mowtag fields, to gutter almost the whole surface of the ground, for acres together, with their burrows and paths. Inscead of molesting muly the small trees in our orchards, as usual, they have of late completely girdled apple trees, in some instances, of nearly thrce feet in eircuinference, aad destroyed them.
As this miseher is seldom done but in the severity of winter, when these vermm are driven to the roots of the trees for shelier, and are deprived of their ordinary subsistence ly the frost and snow, the most effectual way to prevent their mujury is, in the month of Novemier, just before the winter sets ul, to clear away all the rubbish and furze from aroumd the roots of young trees, leaving the ground bare, and then to put a coat of dry ashes all around. The roots of the tree then affording them no shelter above ground, and they having a natural aversion to burrowng in ashes, they will be driven for shelter to some other place, and your trees will thereby, in a great measure, be preserved from ther mischef. The ashes also will abundanily conpensate you for the trouble and expenss, rausing your trees the year following to thrive and flourish exceedingly.
Another method of snme use is, in the early part of winter, after the first si ww , to Ehovel snow around the roots of the trees, and then tread it down hari, hy which it will freeze, and become sold hike kee, through which they cammot penetrate. But his methool is ly no means sure, as they will freguently burrow under the ,re, ant some cimes imure the roots underneath, and in the least thaw pass up and myure the trep.
But after the injury hes bien dnes, and your tres has bèen coinpletrely girdled, and all the bark eaten off rumud the tren to the hard-wood. 1 linow of but one remedy to pre. serve the tree alve, altbough many e eperiments have been tried. A tree girded in this manner, having no mpins of conveying the sap and nourshinent frin the roos up into the body and branchow above, must wither and die. The usual way is, anong farmers in such cases, to dig up the trees and set out new ones. Sometimes they are cut off and headad down below the place eaten, and new wood in length of tume, will shoor out and make a second tree.
But it occurred to me thit if any artificial way could be discovered to renew or make a conmunication of the cli.culating vessels of the lower sectuns ot uic bart and sap eaten off, wth the upper, so as to convey up the juices and nouribhucht frum the roots
into the branches, the trec murght be mate to into the branches,
hive and flourtsh.
Accordingly choosing a fine urifty tree about twelve inches in carcuminererce, as econ as the suow was of the ground in the apring, whuch had been completely girded by
the mice, and all tho bark eaten off all round to the hard-wood, more than four inches wide, liko a belt ; I took a sharp knifo and cenend the edges of tho lower and upper circlo of the barle eaten off; then took a acion from the treo, about the bigness of a pipe stem, and an inch longer at cach end than the space where the bark had been caten off around the troe, spht the scion longthwise, and shaved the spit side down, so as to fit to the body of the tree, being very careful not to disturb tho bark of the scion ; then cutting away the lower circle untul it camo to fresn bark, mado a perpendicular slit one unch down towards the reut of the tree, then crossed thes at the bottom with a horizontal slit, half an inch on each sude, as in budding; then gently peeled up the bark on each side,
and fitted the lower end of the scion in. and fitted the lower end of the scion in, ted the upper end of the scion into the fitted the upper end of the scion into the upper
circle of the bark eaten off, in all respects as 1 had done the lower. In this manner 1 placed six scions all round the body of the tree; then covered it over an inch or more thick with Forsaith's compostion, and hoed the dirt all round the roots of the tree to keep it moist.
Tho tree did not put cut its leaves so soon nor so vigorously at first, as the other trees; but by the middle of summer it fourished very well, and in the fall there was no apparest difference between it and the surrounding trees. It bore some fruit the last year, and is now covered with young frut and appears as healthy and flourishing as any tree in the garden.
In the fall of the year after this operation, I opened the roots of this tree, and tore amay the plaster, and to my suryrise, I found that four of the six scions had taken, and grown to the size of nearly an inch in diameter.The other two did not take, hy which meers the tree is a little gat on one sille. I lately opened the tree again, and have fouul that it will soon be covered with bark agann, except the side where the scions did nut take.
This experiment I have kuown to have been tried several times since with equal success. Mr. Isaac Davis, of Coxlury, a very intelligent and rospectable farmer, in
the spring of the year 1814 , treate- in the the spring of the year i8w, treatel in the same manner a larye apple-tree, of more
than twenty-seren inches in circunference, which had bsen eaten of all round for a space of more than four inches. The tree flourished, and bore fauit the last year, and is now colered with a great abuudance of fruit; and is extremely thrifty, having recently examined it for the purpooe of ascertainulg its present state. Mr. Davis made use of common clay mortar in his experiment, instead of Forsaith's composition, which he thiulk answer as good a purpose.
Knowing, sir, the interest you feel in every thing that tends to improvement in arriculture and husbandry, 1 have taken the liberty to address to you the foregoing experiments and observations, which, if in your opinon, should be deemed of public utility, you are requested to communicate in any manner you think most useful to society.
I am, with the highest respect,
Your most obdt and humble ser'vt,
LUTHER RICHARDSON.
Roxbury, Mass, June 10, 1810.
Live for Treses.-In planting and transplanting trees, the English pur a maall quantity of line in the hole, , mixed and incorporated wiih the mould. The effect is to give the trees a vigorous and healliy start.
to difee away rats.
Tar, or brodlime, laid in their haunts, will stick to theirffur, and cause tbeir departure. If a living rit be caught, and well rubbed or brushed over with tar and train oil, and afterwards put to cecape in the holes of othere,

## Management of ropek.

In Europe, the Russuan pork bears a high price; and its quality is suppreed to bo owing to the piekle in which it is preservel. This is called the "Euprtess o. Russin's Brine," and is prepared as follows: Eoil in. gether over a gentle fire six pounds of common salt, (that in must coumuon l.so in Russia is rock salt), two pounds of powdered loaf sugar, three ounces of sal petre, and tirre gallons of eqring or p.re waier. Skimi it while boiling, and when qute culd, jower !t over the ineat, every part of 1 . hach must be covered with the brme. Simall pork will te sufficiently cured ha tuor or the dnys; hams intended tor dryng, mitwo weeks, unlers they are very large. This peckle may be used agan and agam, if it be fresh boiled up with a small addition to the mgredients.Before putting the meat into the brine, wash it in water, press out the blevd, and wipe it clean.
Prekling tubs should be larger at the bottom than at top, by which means when well packed, the pork will retam ats place unthl the last layer is exhausted. When the pork is cool, it may be cut ur, the hams and shoulders for bacon, and the rennamder saited. Cover the bottom of the tub or barrel with ruck salt, and on it phace a layer of meat, and so on till the tub is filled. Uso the salt liberally, and fill the barrel with strong brine, boiled and skimmed, and then cooled. The fullow ing necthod of preparmg hams and shoulders is a good one; as many who have tried it in sulbstance can testufy:
To ascertain the probable weight of tho meat to te prepared, "te tha number of the hams and slioulders. THen pack them with rock salt in a suitable tub or cask, being careful not to lay the flat sides in the large pieces upon each other, and fillug the iutervals with hiocks, jowls, \&e. To crery 30016 b. of meat, then take 20 lbs . of ruch salt, or Onondaga coarse salt, 1 lb or alt-petre, and 14 lbs. of brown sugar, us lici a gallon of good molasses, and as much water, (pure spring water is the best), at will cover the meat; put the whole in a clean vessel, boil and skim ; then set it aside to cool, and pour it on the meat till the whole is covered somo thres or four inches. Hams weighing from 12 to 15 lis. must lic in the pich le about five weeks; fiom 15 to 25 lbs . six weeks ; from 25 to 45 llbs. seven weeks. On taking them out, soak then in cold water two or threo hours to remove uls surface salt ; then wipe and dry then. It is a good plan in cutting up to talie of the feet and hocks with a saw instead of an axe, as it leaves a smooth surface, and no fractures for the lodgment of the fly. Some make only six pieces of a trimmed hog for salting; but it is more convefient then intended for domestic use, to have the side pork, as it is called, cut in small picces.
The goodness of hams and shoulders and their preservation, depends greatly on their smoking as well as salting. Owing to some misconstruction of the smoke-house, to the surface of the meat not being properly freed from the saline matter, or other causes, it not unfrequently happens that during the process of smoking, the meat is constantly moist, and imbibes a pyrolignerous acid taste and smell, destructive of its good qualities. The requisites of a smoke-house are, that it should be perfectly dry; not warmed by the fire that makes the smoke; so far from the fire that any vapour thrown off in the emole may be condensed before reachung the meat; so close as to exclude all flies, mice, \&co, and yet capable of ventilation and escape of smoke. The Westphalian hams are the most celebrated in Europe, principally cured at and exported from Hamburgh. The smoking of these is perfoumed in extensive chambers in the upper stories of high build-
cinge, some of for or fire tories ; and the
sinoke is convoyed to theso roons from fires in tho collar, through tubes oil which the vapour is condensed and the heat absorbed, so that the sinoke is both dry and cool when it comes in contact with the meat. They are thus kept perfoctly dry, and acquiro a colour and flavour unknown to those sinoked in the common metiod. Hams after being smoked may be kopt any length of time, by being packed in dry aehes, powdored charcoal, or being kept in the smoke-house, if that is secure aganst the fly, or a sinoke is made under timin once a weok. When ment is fully smoked and dried, it may be kepi hing upin any dry room, by slipping over it a cotton bair, the neck of which is closely tied around the string which supports the meat, and thus excludes the bacon bug, fly, \&c. The small part of a ham, shoulder, \&ec, should alwinge be hung downwards in the process of smoking, or when suspended for preservation.-Albuny Cultivator.

## The Mighland Society.

The Hoghland Suciety of Scotland is the most powerful, and perhaps tho most useful, agricultural institution at prosent existing. $\Delta$ S'ottish land-owner would blush to acknowledre he was not a member, and many of then tenantry have their names enrolled on the list. Nur is it absolutely necessary to be a Scotchman to become a member.

Besdes the large amount frven in premtums at the annual cattle show, immense sams have been expended in forwarding the uslusury and mprovinur the "murs and musses muny," with which Scotland used to ahound; and under the fostering care of the soc.ety, "barren wilds" iave become "fruit. ful tields." Premums for anythug new in the arts cunnected vith arriculture have been liberally given, and a repository provided for the models. High premiums and b morary medals are given for the best es. siys on agricultural sulijects ; the prizec bus being recorded in the (2uarterly Journ.l of Agriculture, whach bems conducted undur the auspices of the Society, and conh.satine an account of its transactions, is fonsid a useful and instructive work.
i'ronums have been ulstributed with a - urner a 1 It those who inclosed waterdratited morasses, planted trees, \&ec.; to tha se whe made the best butter and cheese; is lact, in redaion to every suldert connected w.h th3 purpisses of the lustitution, -the inprovement of Scotland.

The Saciety, for the first two or three years, held their catte show in Edinburgh. ine gentlemen of the west of Scotland havmg offered a handsome addition to the prem. iums, it was one year transferred to Glasgow. A rivalry sprang up among tho districts, and each vied with the other in making the show splendid. Firs have now been held in the principal towns of Scotland; and this year it took place in the ancient border town of Berwick-upon-Tweed. As the English side was allowed to compete, the anticipation, since realized, was entertained, that this would be the most magnificent show ever held; and so it was.

Betwixt the border countries of NForthumberland, York, and Durham, on the English side, and Berwick, Roxburgh, and Haddington, on the Scotch, a rivalry exists as intense as it was in the days of yore, but now much more beneficial to the country. Durham was the birth-place of shorthorns, Northumberland theur nurse ; but the Scotch have asserted that they could be reared to per. fection north of the Tweed, and the trial which took place on the 29th of September, at Berwick proved that the Scotch were right.
A. worthy Scotch friend-bas placed in our hands a Berwick Adrertiser, of October the $2 d_{\text {. s containing a full account of the great }}$
agricultural meeting. Wo wish it was in our power to give to our readers some idea of its magnilicence. The picture would arouse our American farmers to greater excrtions in the same way. The concourse of peonle was iminense, and it ombraced a large portion of the learning, rank, and beauty of both sides of the I'weed; and even Ireland had its representatives thera. There were entered for competition, 982 head of catule; including horses, noat cattle, slueep, and hogs. The premums ranged from 200 to 5 sovercigns, and included everything which has any connection with agriculture.

We observe that, at the fairs of the Highland Society, sales of cattle, \&c., at auction, always tahe place; and wo believe that the commissions on the sales go into the treasury of the Society. Ilisis is a practice which ought to bo adopted at all the fairs in this country. It would tend greatly to increase competition and the size of the meetings.

In one of the speeches of the Marquis of Treeddale, he stated that a great deal had been lost by some farmers in lining their poor laud. But he stated that land containing much vogetable mattor was as much improved as evor by lime. No fact is better known than that lime is of little use on land bare of humus of vegetable matter; but certamly none is better established, by the experments in England, as well as in this country, that lime is eminently beneficial on land containing a fair proportion of vegetable matter. It is beyond doult very benefical in mellowing still, cold, and clayey solls. -Louisvill: Joxrnal.

## Parmers' chib.

The season is approaching when farmers will have leisure time during the long winter evenings, for social, mental, and moral culture, anc opportunities to improve in all thange sunnected with the practice of thers art; it is the time to gathur knowledge and laj up facts for future use.
What means are best calculated to attain this end!

Agricultural papers are an important help Every farmer who wishes to thrive in his business ought to take one or more agricultural papers. There is not a number published but contarss a usciul hint, and the information contaned in a volume, will, if properly and judiciously applied, save in the labour of man and beast, inuch more than the expense of a score of volumes. They pass from hand to hand in the farmer's household. 'T.ce wife and daughters learn something from them that is useful; the boys acquire a taste for reading on the subject of their employment, and as new ideas are presented to them in a shape that they can understand, they become more interested in it; they take hold with a will. and perform their appropriste dutses with greater facility, and greater advantage to their employer, the patient ammals on the farm and themselves.

But readers of agricultural papers ought not to expect, in the present state of the science of arsiculture, and thear owa deficiency in knowledge of the fundamental principles of their art, a unity of sentiment ainong agricultural writers. Neither ought they always to expect success in adopting an experiment that has proved advantageous and profitable to the one who narrates it ; they ought noi condemn the paper that recominends a mode of practice that is unsuccessful with them. Theréare many reasons whysuccess does not uniformly attend the same course of practice. In the first place the idea may be imperfectly recerved by the mind; again, difference in soil, manure, \&c., though slight, may defeat thie result expected.

The question arises, how shall farmers arail themselves profitably of new discover-
es and new developements in the ecienco and practico of agriculture, that are from time to time lajd before them? The an. swer is plain. By acquiring a thorough knowlodge of the fundamental principles of agriculture.

By the organization of Farmers' Clubs in overy town or school district, where farmers can meet each other one evening in a week, for the purpose of discussion on the princtples of agriculture, where doubtful modes of practice can be inquired into, where im. provements that have been adopted in other places can bo investigated, and their adapta. tion to particular locations be fully understood ; where the primary principles of agricultural science, would be made the subject of frequent conversation and inquiry, and all the good that can be derived from such organizations be obtained. The plan is simple, feasible and profitable. Great good must result from its adoption. The same measura have been adopted in nearly every parish in England, and they have becone exceedingly popular. The reports published by these Clubs from time to time, show the great interest that farmers of all grades take in them, and the rapid strides that are made in improvement. In order to give an idea of the mannel in which these Clubs are conducted, we shall publish, next week, a report of the doings of one of them, extracted from an English publication, and also give a list of agricultural books that ought to be owned by farmers so organized. Every farming fown ought to have an agricultural library.-Yankee Farmer.

## Apples for stock.

To the Editor of the Bonton Culdivator.
Recent experiments, however, have demonstrated to the more candid and judicious of our farming friends, that Apples are a valuable article for other purposes, and the cider-mill is rapıdly giving place, in many sections, to the steaming apparatus and the oven.
Hogs are now fattened exclusively on apples, both boiled and baked, and there is no longer any question but that pork can be made with far less expense, and of a quality equally as good, on ajples, as on potatoes, meal, or corn. Iast year I butchered a hog, sixtcen months old, which weighed 500 lbs . For seven weeks previous to bringing him to the tub, he eat nothing but boiied apples. A few days before killing him, I ordered some dough to be made, thinking that by keeping lim for a week or 80 upon corn-feed, I should increase the quality of the pork. But to my unter astonshment, it was no sooner placed in hetrough, than he rooted it out. The experiment was repeated for three several limes in succession, but always with the same result. Apples, cooked in the usual way, werc then presented, and he eat of them as usual, and upon them he was kept from that time till his death. I never eat sweeter pork, and although I had no regard either to those mysterious signs, so important in the estimation of some farmers, nor to Lunar influence, the
"Mcat ne'er shrank a bit i' the pot."
A Practical Farmer.

Tobacco.-We yeśterday met with a far. mer from the interior of oar state, who had 1000 pounds of tobacco with him, which he sold at 8 cents per lb. Ho says he can raise it at a cost of 3 cents per. 1 b . Not 20 miles from us on the Canada side, 2000 lbs . are obtained from an acre. The same can be done in Michirfan. Mr. JohnMelvin in.orm3 us that he obtaned 4000 lbs on two acren Persons desiring to try the experiment. colld procrire seed in Canada or - *b. South.

## THECUTTIVATOR。

## TORONTO, FEBRUARY 1, 1842.

To the Farmers of Hritish North Anicrica:
At the carnest soltcitation of Mr. Ed. mondson, 1Poprictor of "The Battisir Amebican Cultivaton," I have been induced to undertake a share in the conduct of this paper for the present, and as my ideas on subjects connected with Agacultube, are already very generally known in the country, perhaps there is no necessity that I should enter into a very particular explanation of them, on the present occasion. I shall, however, submit a few observations for the comsideration of the Subscribers to the Cultivator.

For several years of my residence in Canada, it has betn a ovuree of unceasing regret, that of the many publicacions in this country, not one was exclustvely devoted to the subject of Agriculture, that is the sole dependence of nine-tenths of uur mhabitants. It would be strange, indeed, if the various interests of Agriculture in British America, would not have furmshed abundant matter, to fill constantly, the columns of the largest paper that is pubished in the country. Farmers ought to be perfectly aware from experience, that their interests require to be urged upon the notice of their Governors and Legislatures, as well as the interests of other classes, and certainly hitherto, these interests did not recenve any more attention from the circumstance that they belonged to the class that constituted the vast majority of the Britush American community. I humbly conceive now, as I alsways have done, that no other interests in British America, deserve more attention from all those who really desire to promote the general prosperity of this naturally fine country, than the interests of Agriculture. I cannot see upon what grounds it is expected that this country can improve and flourish without a prosperous state of her Agriculture. And if thes opinion be correct, it should be the first and chief object of at. tention, with those who have it in their power, to promote by every fair and practicable means, its improvement and prosperity. It will be for "Tife Britisu Americas Colfivator," to become the medium for suggesting respectfully, such improvements and encouragements, as, if adopted, would be likely to insure a prosperous state of our Agriculture, without dong injustice to any other class.
It is amazing that other classes, whose interests are fenced in on every side by protecting laws, should take ammediate alarm, if the Agricultural Class should ask for encouragement and protection. They instantly cry out against them that they want to secure a monopoly, and extravagantly high prices. I never would wish to see extravagantly high prices, but I would wish remun. eraling prices, in order to secure the advance of improvement, by the safe and profiable investment of raptal in clearing and
properly cultivating the wilde of British America. Adam Smith bays: - "High prices and plenty are prosperity, low prices and want are misery." I think there would not be much difficulty to prove the truth of this proposition in Canada. It ought to bo remembered, that of more than ono million that constitute tho present population of Canada, not over a tenth, or a little more than one hundred thousand are purchasers of Agrisultural produce for their own food. Henco it would appear, that the essential in. terests of nine hundred thousand are sacrificed, or materally imured, for a trilling benefit, in low prices, to one hundred thousand souls.
It is useless to expect that capital will bo invested in Agricultural improvement, unless there is some reasonable prospect of safety and remuneration. It is fer want of this safety and profit to the capitalist, that our emigrants pass through Canada to the United States. There is abundance of employment for many more omigrants than ever come to this country, if we had capital to pay for work, and if we had prices that would remunerate, money would not be wanted. These are plain facts that aro woll known, though no remedy ever was attempted. In the columns of The British American Cultivator, the interests of Agriculture shall be strongly, but honestly advocated on fair principles, towards all other classes. It will bo impossible to advance the prosperity of Agriculturists, without promoting in the same degree, the interests of almost every other individual that com. pose this community, oxcept those who derive their income from another country.The farmers of this country will not hoard money-they will expend it for some useful or necessary purpose as surely as it comes into their hands. Thus the money they receive for their produce, passes again, directly or indirectly, into the hands from which it comes to them-and we must suppose the Merchant and Tradesman to profit in proportion to the amount of goods which they can sell annually, and the greater the amount of produce that ts annually created from our land and labour, the larger will be the sales of the Merchant and Tradesman.
In preparing original matter, and in solecting from other publications, for Tre Cultivator, I shall guard against exaggerated statements, that would be calculated to lead into error; and I would respectiully suggest to all Contributors to this Periodical, to observe the utmost caution in report. ing experiments, and the results obtained from them, to do 80 in that manner that will show clearly the expense incurred in every way, as well as the profit realized. A judicious systom of practical and profitable husbandry is what we require here, and it will not answer any useful purpose to be told of expensive experiments and their results, that we never can hope to realize by the very best system of ordinary farming-so far as it shall rest with me, the columns of The C'ultivator shall only contain useful and practical uformation and suggentions,
that will be possible for every farmor to adopt and practice, according as his situation and capital will admit of his cioing so. All wild theory aud extravagance, shall be excluded as useless and misshievous. I rospectfully solicit from my brother-farmers of British America, their support to thes Periodical, which can exist and be useful to them, only, by obtaining their patronage.If my-promise will have any influence with them, I pledge it frecly, that if they support The Cultivator, every thing that is possible shall be done, to make it worthy of their patronago. A considerable expense must be incurred on this publication by the Pro. prietor, and of course it cannot live and prosper, unless the expenses are provided for by numerous Subscribers. If the farmers are of opinion that they do not want this publication, and that they may as well take the foreign Cultivator as one published in their own country, and by their own fellow-subject, it must of neceabitij be discontınued. If a preference as given to a foreign publicatron, a native one cannot live, and be profitable any more than Canadian Agricultural produce can be profitable to our farmers, while all descriptions of foreign agricultural produce is freely admitted in competition with it in our markets. I ask not, however, for favour or preference, if unworthy of etther. Give a fair trial for one year, and if the result is not satisfactory to you, withdraw your Subscriptions, and let The British American Cultivator be no more.
I have written this article in a hurry to be in time for the next number of The Cclitivator, and beg you to excuse the plainness of the language and terms, I have made use of. I ehall be more particular in future. I have only made a few selectona for the present number.

I have the honour to be, Very respectfully, Your faithful servant, WILLIAM EVANS.
Cote Sh. Paul,
20th January, 1842

## Colonization and Emigration.

Mr. Alison's late work on "The Princsples of Population, and their Connection with Human Happiness"-contains much interesting information. In his chapter on "Colomization, and the Reclprocity Sxs-TEM"-he shows by his tables, that about a third of the annual exports of British and Irish produce, is to British Colonies in all parts of the world. . After giving these tables, he says:-
"Thesc statistical details point to the future polcy, and illustrate what is the real shoet anchor of the British Empire, as clearly as if the future, with its changes and chances, were by miraculous interposition laid open to our view. It evdently appears, from the rapid and prodigious growth of the commercial intercourso which we maintain with the British Colonies, compared with the stationary or declining condition of that which we enjoy with all the world besides, that wo possess in ourselves, and inde. pendant of foreign siralry, jenlousy, or compet tion, sources of wealth, proepority, and grandeur. greater than ever yet was presented to any na.
tion upen earth; while, on the other hand, the sources of our greatness, so far as they depend upon tad's with indopendent states, havo clearly reached their limit, and are now all tending towards dacny. It is by implanting our seed, therefore, in distant regions, and following our own miseion for the colonization and neopling of tho desert regions of the carth, that we can ulono hope to avert the stationary or declining condition which, frem the operation of causes far beyond the resch of human calculation, has now, 80 far as our intercourse with forcign na. toons is concorned, comto to act upon the British Empire. And if wo could conceive that the governmont and people of this country for both must coopporate in so highly an undertaking, were duly impreseed with tho grandeur of this duty, and wore guided by adoguate wisdom in carrying it into execution; if, discarding all sellish considerations on local interests, they regarded the British Islands only as the metropolis of this vast transmarine dominion, and pursued in good faith tho just and equal policy which the interests of arch an Empire imperatively roquiro; if the industry of all parts, however re. mote, were protected by tho admission of its produce at the samo duty into the British harbours that the British is admitted into theirs : If Britsh justice awayed alike the decisions of the courts of law on the Atlantic or the Pacific 25 within the precincts of Westminster Hall, and the British Navy, maintained in adequato strength, and upheid by iratrietic vigour, lay betweon to cement, and defend the whole parts of this mighty dominion; no doubt can be entertuined that the greatness of the British Empire, wonder. ful as it already is, is but in its infancy, and that the occan would become to us what the Inditerrancan was to the Romans, -a highway eninating from the centre of a boundless do. minton, and the means of keeping firmly united its most dastant provinces."

Mr. Alison, gives another Tablo that shows the value of British manufactures, which the respective populations of everal of the European States, together with those of the United States of America, and of the Britimh Colomes, consume annually per hoad, and then obseryes :-
"It may truly be said that this table spcaks as to the real interests and manulactunng catablishmonts of Great Britain; and that if the nation wero not struck with judicious blindnces, they sould at onco parceive whero it is that the steady nad rising market for British inanufactures is to be found, and where, on the other hand, all our efforts $w$ promote a succossful traffic may be resarded as iruitess and unavailing. For fifteen yeara past our whole commercial policy has been directed to the object of gaining a mere ready vent for our manufactures into the continental states of Europe. Wo have concluded no less than twelve reciprocity treaties with the pnncipal journals; and, in order to propitiate their good will, we have sacrificed by our treaties all our commercial advantages at least in our intercourse with these states. And what hes bcen the result? Why, that our commerce with them is a perfect trifle when comparcd with that which we maintain with our own Colones, whom wehave maltreated and neglected for thoir sakes; and that, while the old states take off a fero sence per head of their population, our own Colonies take off as many poxnds. In this initance we have truly verifisit the old adage, that we have bcen penny wise ind pound fool. ish, even in regard to our existing interests at the moment. But when, in addition to this, it 15 recollected that theso Colonics are part of oursclves-distant provinces of our own cmpire, whose blood is our blood, whose strength is our atrength; that they are increasing in number, with a rapidity unparalleled in the annals of the world; and that howover fast they may augment, they are by their situation and circumbtances chained for centuries to agricultaral and pastoral enjoyments, and consoquently our export trado with them must increaso in the same proportion as their numbers; while, on the other hand, the statcs of continental Europe are increasing far less rapidly in numbers-are actuated for the most part by commercial jealousy, and may any moment become our ene. miex,-It may affely be affirmed, that the neg-
cet of the culonial provinces to propitiato suriegn powers, is of all human abourdities the most absura."
"Let us, therefore, no longer strain after tho impracticable effort to disarm the commercial jealousy of the European States; but, boldly looking our ettuation in the face, direct our main efforts to tho strongthoning, conchating, and increaning of our colomal empiro. Thero is to be found the bone of our bone, and flesh of our flesh. Thore are to be found the true descen. dants of the Anglo-Saxon raco; then the people, who, already ambued with our tastes, nar hatits, our artficial wants, must ba chained for centu. ree to agricultural or pastoral employments, and can only obtan from the mother country the immense amount of manufactured produce which thear growing wealth and numbers must require. So strongly marked out do these prin. ciples appear,-so clearly is the future path traced out for England, not less by her duty than hor interests, that there is no ono circumstance in her present condituod, not even those which are most justly considered as pregnant with danger and alarm, that may not be converted into the source of blessings, if a decided and manly courso 13 taken by the nation and its hovernn.-nt, in regard to its culunial interes:s. Indecd, so clearly does this appear, that ono is almost tempted to believo that tho manifold politacal and sucial evils of our present condition are the sconroes intended of providence to bring us back, by necessity, and a sense of our own in toreste, in those great rational duties from whinch wo have so lung and so unaccuinitiby survived.
Are wo oppressed with a numerous and redundant population. Are we apprchensive that a muss of human beings, already consisting of nearly thrty milhons, and multuplying at the rate of a thousand souls a day, will ere long be unable to find subsistenco within the nartow spacs of these islands? Let us turn to the Co. lonies, and there we shall find buundless regions, capable of maintaining ten times our prosent population in comentment and afluence, and whin requires only the aurplus arms and man. tles of the parent state, to be converted into gagantic empires, which, beforo a century has clapsed, may overshadow the greatnese ever of European renuwn. Are we jusdy fearful uat the increasing manufacturing shill and growing conmercial jealonsy of the continental states may gradually shut us out from the European marker, and that ous milions of manufacturens may find their sources of foreign subsistance fail nt a time when all hume cmployments are filled up? Let us turn to the Colonics, and thore we shall see cmpres of giganuc strength rapidly rising to maturity, in which nisuufacturing establishments cannot, for centurics, take root, and in which the taste for British manufactures, and the habits of Bntish comfort, are indcllibly implanted on the Briush race 3 Are we overburdened with the weight of our poor-rates and the multitude of our paupers, and trembling under the effect of the sub-rooted discontent pro duced in the attempt to withdraw public support from the maintenance of the adult and healthy labourer? Let us find the means of transport. ing these healthy workmento our colonal settlemonts, and wo will confer as great a blessing upon them, as we will give a relicf to the parent statc.
"Are the means to transport these numacrous and indigent classes to these distant regions wanting and has individual emigration buherto been liable to the reproach, that it removes the better class of our citizens who condd 10 for themselves, and leaves the poorest who incumber the land 1 Tho British Navy lies between, and means exist of transporting, at hardly any expense to the parent state, all that can ever be required of our working population from that part of the empire which they overburden, to that to which they will prove a blessing. It is astonishing the attention of Government has not, cre this, been turacd to this subject. And why may not part at least of the Brath Navy be constantly cmployed in transporting cmugrants of all classes to our colonial possessions ? Why should three hundred vessels of different sizes, that are now in commission in the Bnush Navy, be cmployed, only in useless parades, when hundreds of thousands on tho British shores are pining for tho means of transport across the scas, and milhons of acres.on the other acrose the scas, and miltions of acres-on the other
sde of the ocean, turming witb .ycrdant fertility,
await only their robust hands to bo convertod into a terrestrial paradiso? Why ohould the British Navy not be employed like tho Roman legions, in time of poace, in works of public utility; and why should thers efforts not con struct causeways across the deep, which would bind together the immonse circuit of the Bratish Colonial Dominons, as strongly as the lugh. ways constructed by thetegions cemented the fabric of this mighty enipire?

- The Roman legions conquered only by the sword. Fire and bloodshed attended their steps, it was said by our own ancestors on tho hulls of Caledonia, that thoy gave peacc only by establish. ing a solitude. The Britush culonsts now set out with the olive-branch, not the sword in hand; with the cross, not the Eagle on therr banners-thay bring not war and devastation, but peace and covibzation arolnd ther steps and tho track of their chanot-wheels is followed, not by the sighs of a captive, but the blessing of a renovated world."
"Come bnght amprovement in the car of Time, And rule the spacious world from clime to clane; Thy handmaid, Art, shall cvery wild explore, Trace overy wave and culture every shore;
On Erte's banks, where panther's steal along, And the dread Indian chuunts a dismal song ; Where human fiends on nidinight errants walk And bathed in brains tho murdrous tomahawk. There shall the flocks on thymy pastures stray, And shepherds dance at summer's upeming day; Each wandering genius of the loncly glen
Shall start to win-the glittering heunts of men; And silence mark, on woodland ticights around, The vallage cuifoi" as at tulls profuund."

A very long extract has been given from the work of this very able writer, in order to show the views that are entertiined of emigration to the British Colonies. No doubt can exist that there is abundant opportunity for their employment here, ana' in other colonies, provided capital can bo safely invested in Agriculture, but not otherwise. Public works carried on extensively will give temporary employment to emigrants, but there must be something more than this to ensure their successful settlement in this country, and, also, to ensure to the mother-country profitable customers in leer own chiluren for the purchase of her manufactures, and supplying the parent state with what she may req̧uire of Canadian produce. It is perfectly possible to secure immense benefits, both to the mother-country, and to this colony, by adopt ing judicious measures of encouragement and protection to Canadian Agriculture, which cannot prosper under existing circumstances, without some change. Those who would encourage emigration, if they desire to see emigrants uscful and prosperous herc, will have to adopt measures that will secure that result, and if it can be secured independent of Agriculture, we shall not object to the means that may be ersployed to accomplish it.

We are gratified at the interest a number of Post-Masters have already taken, to procure Subscribers for The Britisin Amerrcas Curtivatar. .We shall continue to send a copy to all such, without regard to the number of Subscribers they procure.If they should fail at first to make up the number specified in Our Terms, entithing them to a copy, probably they may do so before the expiration of the year. We fiatter ourselves that the Post-Masters throughout British America, will exert their influence in our favour, as soon as our Publicztion becomes generally known.

## POETRY.

## (From the Colonial Farmer).

## THE FARMER'S SONG.

In swect heality air with a farm of his own, Secluded from tumult and strifo,
Tho farmer, more blest than the ling on his throno,
Enjoys all tho comiorts of life.
When the sweet amiling spring sheds its prefume around,
And music enchants every treo,
With his glittering ploughsharo bo furrows his ground,
With mind independent and freo.
When summer to fritit tho sweet blossoms tansforms,
And his haryest flelds wave with the breezo: Siveot anticipation unfolds all her chamos, And points to contontment and case.
When bountifulautuenn leer treasure bestowe, And her fruits are all gathered and stored; Ilis heart to the Giver with gratitude glows, And plenty presides at hus board.

When Winter howls dismally uver tho earth, And want tells her tate at the door; Serenely he sits by his clean blazing hearth, And dispenses relief to the poor.
Then let idle ambition her baubles persue, White wisdom looks down with disdan, The home of the farmer hath charms ever new Where healh, peace, and competence reign.
A. V.

Tr The fullowing hnes very smply illustrate the manner in which individuals freguently be. come involved in difficulucs which thoy mighe amicably adjust by a litue reflection.

## GOING TO LAW.

An upper and a lower Mill
Fell out about heir wator-
To war they went-that is, to lar-
Resolved to give no quartur.
A. lawyer was by cach engaged, And hotly they contended;
When fees grew slack, the war they waged They judged, were better ended.

The heavy costs remainung sull, Were settled whhout botherOne Lanyer tooh the upper Mill, The lower Mill the other.

## Avaflable Means of Agricuitural

## Improvement.

Societics and premiums were tried in vain in Germany, to renovate agriculture, 6ays Mr. Fleischman, and so was theoretical farming. "The practical farmer, uneducated and full of prejudice," he says, "was not able to understand the principles of the new system ; the man of scientific education had no experience and knowledge of applying science to practice properly ;" and so
both failed, of improved slowly. At last, both failed, or improved slowly. At last, the science and practice were taught smultaneonsly. "In six years," he continues,
the influence of these schools was felt taroughout the whole country." Rotation of crops was introduced; the stock was increased and improved; the fertility of the land was renovated; prejudiced neighbours became convinced; they began to imitate, to read, and to think, and in a short space of tume, the old system was abandoned, and the
farmer soon saw and realized the advantages of the science of agriculture."
"I took to tha establishment of agricultu. ral schoole," says out highly intelligent Otsego correspondunt, "as bolonging to an earlier stato of thinge than agricultural exhibitions. To him who has mado no advance," ho adds with groat truth, "an agricultural exhibition is a source of mortification and a wounding of self-love-[because it throws his own labours and skill into the back ground]-but a school will avaken the spirit of improvement ; and a few young men going forth from such an establishment, will be liko a littlo leaven in: the inert mass."
It requires but little reflection and foresight to predict, with great cortainty, that unless something is speedily done, by the peoplo and the people's ropresentatives, to improve the state of our agriculture, the farmers of Europe will soon supplant; wil! undersell us - in our own markets, in the products of the soil. We already find the bread-stuffs of Europe and even of Asia, put in requisition to feed our population. From the low price of labour in Europe, and particularly from the recent improvements in agriculture, which are doubling and trebling the products of agricultural labbour there, the disparity in the actual cost, to the cultivator of these products, is constantly increasing against us, The veneraole Ellenlurgh and may he yet onjoy a long and happy life -was the first to demonstrate the utility of combining the scinire with the practice of agriculture-of making farmers gentlemen, and gentlemen farmers-of combining intellectual with physical power, and litergture with labour-in a schooi for the education of young men. The sagacious Frederick, king of L'russia, soon saw the advantages to the state, which were likely to result from schools liko that at Holfwyl, and soonestablished the great school at Mocgelin, under the distinguished 7haer, and has since incorporated its principles into the comnion and other of the German states, and France, have since established like schools; Russia has agricultural schools near St. Petersburgh and Moscow, liberally endowed and support ed by the government ; and even Ireland, has started in this noble carecr of usefulness. The Uuited States, which should be foremost in efforts to enlighten, improve and elevate the agricultural population, wall, we fear, be last to establish agricultural schools, and the last to profit by their usefulness.

The only present avalable means of accelerating the mtroduction of these schouls among us-for established they ultimately must and will be-is the agricultural press -the enlarged circulation of agricultural poriodicals among the people. They are every day increasing the sphere of their usefuiness, and the extent of their circulation. They are bringing into notice the best practices in husbandry, and promulgating the principles of arricultural science. They are producing a salutary change in the public mind in regard to the importance of improring our husbandry ; and thas change will ere long, we trust, be felt and maniested in our halls of legislation. The sooner the better, for all classes of our citizens.-Buel.

To mave Mince Pres ant time--Ptepare your meat by boiliag and choppag as though it were for immediate use - mux it with a suitable portion of suet, spice and salt; then put it in an earthen pot, pound it down with a pestle, and then cover it with the best of molasses; kecp it where it will not freeze, and it will be fit for use any time. My wife has adopted the above course for four or five years past with perfect success ; so that we have had mince pies made from meat killed in Deccmber as constant in July following
as in January, and quite as acceptable.Maine Farmer.

## On Educating Childrenat Honc-

## Scuenectadx, Miny $91 h, 1830$.

Frisnd Buel - In the April number ol your Cultivator, under the hoad, "We spread our nets too broad," page 38, the writer saye, "The worst place to educate a boy, 80 far as depends on the advantages of the school, is his native village, whero he is wont to loan on parontal support, and to re, main a mere succour. Send him among strangere, and he will learn to go alone, and to depend for knowledge and character, upon his personal application and good conduct," \&c., \&c, \&c.
These assertions may be plausible to soms of your readers; but so far as I have experience, the contrary is the safest courso as to the government of clildren by their parents.
So soon as my children coild recognzo me, I delighted them by the greatest atiention to amuse and please them. This dally attention and fostering care for thenr comfort and amusement, soon produced ther warmesi affections and supreme love. They were the most happy when in my care, and were unhappy in my presence, if not in my care and attention. As therr hnowledge ucreased and faculties mpr. ved, we were extremely careful not to promise the least thing that we did not most rigidly fultil; so that when they were tuld any thang, they were certain of its truil, and farthlul fulaiment of every pronuse. 'Iherr supreme lova and perfect confidence in us was established. If they showed the least disposition to disobey, I tuld them that 1 cuuld not lute a child who did not luve and obey tue. Thas was suilicient for their inmediate complance, for the greatest pain would be loss of out love, and the burch was never nceded nor used. The poet's remark on the milueace of love was verified:-

In kindred ninds it flourishes alune,
And claims attachment cqual tu its uwn.
We never gave them any poclet money' to absorb their thoughts, and to spend at their pleasure. Money was never given them but for specific purposes, allhough they were always allowed to have iree access to $i^{2}$, and were told its objects and uses. They were provided at home with all that was deemed proper, and they had no dessice to enter the attractung and debasing cellars and shops for fruit and luxuries, which are the pests of good morals, and ruin of multttudes of otherwise good children.

Before they reached their seventh year, (the age when the human organ of faculiy, the brain is fully developed and matured in volume), they were manly and womanly enough for the age; for they were spoken to as rational and adult beings, and not in trifling language. They were told that God was the author of them, and their kind parents, and all good things; and that their love to Him was paramouut-mext they might love their parents, \&uc. These are duties not to be looked for from strangers; nor will children receive moral instruction with the same iaith from them, as from parents.
When their age increased, and their man. ners and principles were formed, they travelled without us. They were furnished with money liberally, and were told not to spend monoy because they had it, but to pay for all useful and honourable wants - to spend nothing in vice nor evil company.They always had enough and to spare, and never asked for a dollar that I had the least hesitancy $t 0$ furnish, for it never was mis. used or abused. We are now happy in their
reverental and filial obedience and love, and they sharo in the esteom of society; and the munctuon of the wiso man, "bring up a child in tho way he should go," \&c., is fully Illustratod in them.

I hat? ree.a many vory fine children, of good amd fine minds and mamers whon they loft thar paronts, ruined, and their manners and murals completely destroyed by being seat from home fur edication.

My dear sir, you whll forgive me, I hope, for thern olservationf, is larsure you I give them to jou mere iy in currect what 1 concono to be wroug apn wons, and to exhibita betier exanple. "Let prenis who have the meanf, br hibural in celablishings grod schouls at or nest Lewne, and employ competent teachore at some authintal cost, and save their dear childran from enposure to vice, if they believe there is wiy value in these opituous and evperience.

> Yours' respectiully,

## Const:utction of the Fluss of Chithacys.

"The greal fault," says Count Rumford "of all the open firc-places now in common uef, is that they are much too large, or rather it is the throat of the chimney, in the lower part of ita chen canal, in the neighbourhood of Un mouth anl immedi.tely over the fire which is too lärge." The following is a enndensed view of some of the rules gisen on the subject, 'y this itgenious practical filineepher, and bich are fulluded on the prineiples of science and on numerous expe-riments.-1. The throat of the clanney should be perpendicularly over the fire: as the mole and vapour which rise froma fire naturally te du uppards. By the throat of a e! inery is meant the loner extremity of its canal, where it unites with the upper part of its open fire-place. 2. The nearer the throat of a c!imney is to the fire, the stronger wall be ito draught, and the less danger of its sminking since sinoke rises in consequence of its ririficution by heat, and the heat is grester nearer the fire that at a greater diszance from it. Dut the draught of a chimney nay be too streng so as to consume the fuel too rapudiy; add, thurefore, a due medium must be fivel whos accurding to circumstances. 3. That four iaches is the proper width to he gi' $\epsilon$, to the throat of a chimeney, recknity acrosf from the top of the breast of a chinimey, or the inside of the mantic to the bark of tio chimncy, and even in large halls, whore great fires aro kept up, this width sloould never be increased beyond $4 \frac{1}{2}$ or 5 incles. 4. The width given to the back of the chimney. should be about one-third of the width of the opening of the fire place in front. In a room of a middling size, thirteen inches is a good size for the width of the back, and three times 13 , or 39 inches, for the width of the opening of the fire-plice in front. 5. The angle made by the back of the fire-place and the sides of it, or covings, should be 135 degrees, which is the best position they can have for throwing heat into the room. 6. The back of the climney should always be built perfectly upright.7. Where the throat of a chimnoy has an end, that is to say, where it enters into the lower part of the open canal of the chimney, and the back of the fire-place should all end abruptly, without any slope, which will rea. der it more difficult for any wind from above of force its way throughi the narrow passage of the throat of the chimney. The back and covinge should rise 5 or 6 inches higher than the breast of the chimney. 8. The current of air which pasising under the mantle ghts into the chumey, should be made gradually to bend its course upwards; by which means it will unite quietly with the ascending cursent of amoke. Mis is offected with the
greatest easo and certainty, merely by round- , ing off the breast of the chimney, or back part of the mantle, instead of leaving it flat or full of holes and corners.

## Stables.

Nothing conduces more to the health of a horse, than a good and wholesome stablo.it slould be built upon a high, airy, and firm situation, that the horse, in bad weather, may come in and go out clean. No animal delights more in clenulinegs than the horsc, or to whom bail smells are more' disagrceable and pernicious. Great attention should be pad to the removal of all offensive and putrid matter, to prevent the farcy and othor troublesone and distrcssing discases, which frequently proceed from such neglect. A log stable is preferable to any other, on account of its admitting a frec circulalion of air in sumner; anil by tho use of slabs or stras in winter, can leq made warm and comfo, table. Opposite to each stall there should be a lattice or winluw, with a shutter; by which means you can, at pleasure, cither welcome the checring breese, or bar out the threatening storm. The rack should be smooth, highl, and firmly fastened to the wall; which will prevent a horse injur'ng has eje:, skinuing his face, and doing humselt other injury when fecding. The upright preces of a rack should be four, or four and a half inches apart, to prevent long food from beint unnecessarily wasted. The halter should never be tied to the rack, (several fine horses having been ruined by such carelessness,) but should be passed through a ring in the unanger, and confined to a longer or smooth piece of wood, weighing about a poundWith a haltar of this description, there is no danger of a horse's hanging, alarming, or injuring himself. A stall should be four and a half or five feet wide, which will allow him to lie down with comfort. The stable floor should be planked, to make the coat of haur show to advantare; buta dirt floor is far preferable, when a horse is wanted for service: there is a moisture received by the hoof from the earth, which is absolutely necessary to make it tough and serviceable. Etther kind of stable floors should be a hitle raised towards the manger, to turn the urine from the stall, which produces an unpleasant smell, and (when parmitted to stand a length of time) very unthholesome vapors. When the size of a stable is calculated for several horses, the partitions between the stalls should be neatly and smoothly planked low enough to the floor, to prevent the horse when lying down, getting his legs through, and high onough at top to prevent them frum smolling, biting, and molesting each other. A plentiful bed of clean dry straw affords, to a fatigued or travelling horse, as great a welcome as his food, and is as necessary in a stable as the pitchfork, curry-comb, and brush-Mason's Farrier.

New Invention:-Among the new invontions and contrivances of which I have latuly heard; is something which I bslieve buds fair to become unversally useful to the city and country, and the world, and that is, a new methol of making good, light, swect bread.All the world knows, that one of the most difficult and perplexing matters to housekeepers, is to have good cmptings or yeast for bread. Now the invention ss thas:Take an acid like cream of tartar, (I mean simply an acid in the form of powder), and rub a sufficient quantity of this dry and powdered acid into a proper quantity of dry flour. Then wet the flour and put in your alkalipotash, or any hard alkali. The valuable part of the discovery is this,-the acid and alkaii will not offcrvesce until the loaf is boked, when the acid 18 rubbed. ineo the four in a dry state. The experimens is worth
trying. I assure you, that a most delicious bread is producod, light, sweot. and good, in this manner, from any good flour or meal you use, wheat, rye, or Indinn. Cream of tartar may be used, and saleratus, for the purpose of trying it. Nothing can be more healthrul than this bread. Thre inventor is a baller by trade, and 1 belteve it will come into uso every where. 'Iry it yoursolf, by rubbing into your flour, il a perfectly dry state, Eorne cream of tartar, and then mixing up tho batter with whatever itpuil you please, milk, buttermilk, ur water, and adilirr a little saleratus, You will have an cerellent and toodhsome and wholesome bread-Moston Correszondence of Hitl's Patriot.
'D'slling the: Eamth.-In tilling the carth, some peopie go upon the eame principle that rogulated their business intercuarse with men. They mats be sure to get the advalltage of the trade ; and if this cannot be secured without, they must cheat and decenve the person with whom they deal. And they think to practice the same artifice upon old wother Lauth. You will sec them on their grounds 14 the s.pram, ass sly dy dugr, apparently calculaiur that Larth has forgoten the exhausting crups that were taken from her last year-perhaps they will gove a oprimhling of manure, and throw it on so as to make Carth think there is a noble lot of it. Wrell, they go to work. But the Earth woni bo chested. She will sewart every man accordarg to has worhs, and teil the truth, .. the autanis. Yuu cammot get the advantage of her as you can with human customers. Treat her well, and she will roward your expendthne and toul ; but attempt to cheat her, and she will wahe' you sorry for it when harvest cumeb.-Mazue Culturator.

Sausages.-We prepare our sausage meat in the cisual way. Then instcad of puttmg the meat in shins, prepared froni hog's entrals, we make hags of white clean cotion or linen cloth, as large, say as a man's arm, larger or smaller, as may sut, and of convenient length, say about a foot lung, and put the sausage nicat in these bags, and hang them up to dry. In this way, we save much labour in preparing the skus, and consuderable in cwikng: we slip of the bag from so much as is needed, and cut the sausage into slices of sufficient thickness for cooking. I much prefer sausage put in bags to thuse put in shins, as they keep more moist. Others, for the same reason, dislike them-Selected.

How to boll Irisa Potatoes.-Good and mdifierent potatoes depend very much upon the manner in which they are prepared for the table. Some cooks always have heavy, hard, watery potatues; while others, for the most part have them dry, mealy and excellent. This difference depends, generally, upon the difference of cooking. The first cooli puts the potatoes into cold water, warme them through ly a slow fire, and cools them as slowly; while the other pats them in boiling water, stirs the fire till thicy are just done, takes them out immediately, throws a wet cloth round them, and gently squeezes each with the hand till it cracks open, for the watery particles to escape in forms of steam, then peals them and they are exactly right. By this plan, almost any potatoe will eat well.-Nashoille Agriculiurist.

RECIPE.
Saliva in horses can be cured by mixmg a table spoonful of flouz of sulphur in the salt that is givon them from time to time.


## Perfeet Bee Hive and Non-Swarmer.--Concludcd.

The principles of this hive may be adapted to any huve of a square form as well as thes, to wit, the box heve, cape hive, subtending or pilmg bos hive, as well as tho Verinont Hive.
Specification of the useg of the Perfect Bee Hive.
The aperture through the centro of the right angle bottom board marked D, readily discharges all filth that falls from among the combs, at the same time its outer projection endwise, opposite D, forms a masi convement alighting place for the bees, and secures them from driving winds in chilly weather.
The ventilators, six in all, marked E, are made of tin tubes three inches in danneter, covered on the inside of the have with wire screen, and with wire gauze the inside of its outer projection, so that when the whole 18 covered with a cap on the outside with corresponding holes, ventilation may be graduated at pleasure.
The thermonet:ical chamber, seen at $\mathbf{F}$ in the cut, is used only as a deposit for that important instrument, which will show at all times the condition of the bees contained in the hive. This will determine the required quantity of air to cool the hive below swarming temperature, as well as the necessary heat to keep the young broods in a healthful condition, and also deternine the most appropriate time for dividing off swarm--, which can be done with perfect success and certainty only in the swarming season.
The collaterals seen on the right and left of the centre hive are added or removed at pleasure by the use of shdes made of shect
irnn, one of which is cut with curves in such a manner as to correspond with the wood or cork stope which are inserted into apertures in the sides of the hive, (tllese materials being non-conductors of heat and cold), and when removed admit the bees; and anmal heat to emanate into the collaterals; both of Which may be boxes, or one may be a box as marked B in the cut, and the other a chamber containing drawers marked 2, 4, which may be removed by taking off the whole chamber at once.

As a full illustration of the uses and management of bees in all the classes of hives to which these principles may be adapted, would more properly come into a volume rathor than int a single newspaper essay,-I only add that a swarm of bees weighing less than ten pounds when first hived; should be confined to the swarming hive until their increased ilurnbetrs require more room, when the collateral box may be added. In all cascs the box is added first; afterwards the chamber, but no apertures should ever be left open so as to compel the bees to wnam by their animal heat any more space than thicy occupy.

JOHN M. WETSKS.
P.S. Any person whe shall enclose $\$ 5$ to the proprietor, will be entitled to one individual right, and will be furnished with cuts and drawings of all the hives, instructions, \&c., will be forwarded. Territories will be offered on liberal terms. All letters of en. quiry mus̀t be post-paid.
J. M. W.

West Farms, Salisbury, Vt., June, 1811.

How to Treat the Ligit Solls to the greatest advantage. - Those who have acquired the reputation of good farmers do not invariably derive the greatest pobsible auvantare from the land they cliltivate; principally fron their stucking too closely to some system or rotation of crops, which, in general practice, may be deservedly of high sepute. This will more particularly apply to the management of light soils, and in those districts where the turnip system commonly prevals. Hence it is that we would venture to tecommend partial and occasional departures from a rigid adherence to certain rotatwits of crops, because, where this is carried nut to the extrome limit, when a very unfavuurable geason occurs, there necessarily must be a great deficiency in one of the few general crops annually cultvated. Tares may be sown on the better sorts of hght Jands after a good tillage given mmediately after harvest. If they are fed off or cut green in May or June, early turmpe may be
sown after them, which will be fit to feed of or draw for the cows in September, in good tume for ploughing up the land for wheat sowing. In this case the land gets all the ploughing necessary to clean it completely and oxactly at the best time. Three plough ings may be given after the tares, if the land is not clean, and the turnips being well handhoed and horse-hoed, the land will be perfectly clean to recelve the wheat seed; manure may be put on with the tares or the turnips, and if these are fed off with sheep, they will so enrich the sonl that the next orop cannot fail to be abundant. By varying the management of light land according to cir cumstances, and with some judgment, many more profitable crops can be raised than by the common simple rotation, in which a fourth of the land is sown with turnips. If this crop fals, wheh is often the case, where it recurs so often, the whole system is deranged, and the loss is very great. The in. troduction of a greater varioty of produce in
the cultivation of light lands, in imitation o the Flemish practice, and tho increaso of stock kept in consequence, would bo an jmportant step in the improvement of British husbandry.-Selceted.

Disfass of Swine.-Swine are subject to a few discases that are not very casy of remedy. 'Ihe best proventive is to keep thern clean and cool in summer, and to allow no carrion, or filth whatover, to remain in or near their stieg. This rulo would res quire to bo more atteniled to in these Provinces. Tho diseases they aro most subject to are, pox or measles, blood-striking, staggers, quincy, mdigestion, catarrh, peripneu. monia, and inflammation of the lunge, called heavings. When pigs are sick, if they will eat they will take medicine in their iood; but if they will not eat there is scarcely any help for them. As aperients, cleansers, and alteratives; suiphur, antimony, and madder are the grand specifics, and are truly useful. As cordials and tonics, treacle and strong beer in warm wash, and good peas, and pol. lird. In the measles, bulphur, \&e., and if the animal require it, give cordals occasionallo. In staggers, bleeding, fresh air and niti 3 ; in catarrh, a warm bed and warm cordial wash; and the same in quincy, or inflammation of the glands in the throat. If externa! fuppuration appear likely, discharga the matter when ripe, and dress with tar and brandy, or balstim. The heavings or unsoundness of the lungs in pigs, like the unsoundness of the liver in lambs, is sometimes found to be hereditary; there is no remedy Thin disease in pigs is often the consequence of cold from wet lodging, or of hasty feeding in a poor state; in a certain state it is highly inflammatory, and without remedy.Unction with train oil, and the internal uso of it, have been thought beneficial. Salt, nitre, and sulphur, occastonally given in tha food of swine, will be found a good preventive cf disease in these useful animals. From a Treatise on Agriculture by Wnt. Evans.

Economp.-The great art of economy in domestic life, is comprised in the two very homely, phrases, "to turn every thing to account," and "to make the most of what you have." But their meaning is often perverted, and the habit of turning every thing to an account, and of making the most of every thing, is ascribed to those who are actuated, not by a laudable desire to produce as much comfort as their circumstances will admit, but by an inclination to indulge in a strong propensity to stinginess. Between extravagance and parsimony, the widest possible interval exists; and that economy, that management and application of means, which is deemed perfectly consistent with the most rigid virtue, and the most generous impulse, is of too admirable a character to partake either of the spendthrift's criminality, or of the miser's meanness.
In the young and thoughtless, a spirit of emulation often shows itself, and sometimes leads to the destruction of their domestic happiness. This unbecoming spirit is the saurce of discomfort, extravagance, and rain, by u:ging on the weak-minded to vie with their superiors in fortune, and to sacrifice so much to appearance, as to render themselves destitute of the means of enjoying the substantial comforts of life.
Young house-keepers should consider the serious consequences that are likely to resulf from setting out in a syle of lavish exponditure ; and they should remember that, while it is easy to extend, it is extremely dif ficult to reduce, an establishment. One expensive article requires another to correspond with it, and one expensive entertainment imposes the necessity of other equally
expensive ontertainments; for it requires no small share of moral courage, to risk tho loss of consequence which may result from allowing the worlh, as it is calleci, to surmise, that we are not so rich as may have been imagined. And when the time comesi as sooner or latter it assuredly nust, when the meana are not adequate to the demands, what sacrifices are mades. and what unseemly contrivances are resorted to, in order to licep upi st last, a poor remnant of 'appearance!" and, when this can no longer be effected, then comes the humiliation, with all the bitter feolings attendant upon retrenchment; of all which feclings, the bitterest is, the dread of being degraded in the world's entimation.-Selected.

Sugar Beet for Milcir Cows.-An inlelligent gentleman from the castivard, assured us a few days ago; that by giving his cows a peck of sugar beet twice a day, cut up with their hay, he wan onr" led to get just as rich milk and buttor during the winter, as in summer, when tho pasture was at its best. Now, as an acre of ground well manured, planted in this ront, and well attended, would yield beets enough to keep ten conos, from the 1st of November, till the 1st of May. Ghould not every farmer make lis arrangements for planting beets this spring? From our own experience, we have no doubt, that this addition of beets to the ordinary feed of the rows, would make a weekly diference of 2 lbs each, in their product of butter. From the lst of November to the Ist of May there are 26 weeks. This number of weeks at 2 lbs. additional butter, would give us 52 lbs . for each cow during the period named, or 520 lbs. for the ten cows, and if we set down the butter as being worth 25 cents per lib, it will give us $\$ 130$ as the value of additional yield brouglit about by the feeding with the product of an acre in beets. But this is not all-the proprietor of the cows in the spring, would have the gratification to know that lie had treated his animals well, and the satisfaction of seeing them in good condition.Farmer and Gardener.

Importance of Chemistry to Agricul. ture.--If we strew the floors of our stables with gypsum from time to time, they will lose all their offensive smell, and none of the ammonia which forme can be lost, but will be retained in a condition serviceable as manure.

Pastures act a most important part in rez turning to the soil a supply of nitrogen in place of that taken away in the hay and grain. In large farms, where each field in rotation is in grazing, the nitrogen is completely replaced, and where the manures made on a farm are carefully returned to the soil, the quantity of this important ingredient must increase every year. When the night soil of cities shall be converted into poudrette, as it now is some places, no nitrogen of consequence will be lost, as the quantities used in the shape of corn and cattle will be returned to the country, and made available for new crops and the feeding of new animals. The following extract will show the loss farmers sustain from not attending to these powerful manures:-
"When it is considered that with every Jund of ammonia which evaporates, a loss Jf 60 pounds of corn, (grain) is sustained, -nd that with every pound of urine, a pound of wheat might be produced, the difference with which these liquid excrements are ret arded is quite incomprehensible. In most places only the solid excrements impregnated with the Jiquid are used, and the funghills containing them are protected neither from evaporation or from rain. The solid excrements contain the insoluble, the liquid
all the soluble phosphates, and tho latter contain likewise all the potash which existed as organic salts in the plante consumed by the animals."-Cuttivator.

## Mr. Richardson's Miachine for Removing Stones.

$\Lambda, \mathrm{B}$, and C , aro three strong woodon posts, about 14 feet in length, through tho ends of which are holes for the recoption of the strong iron pin DE, upon which is made to slide the curved iron bar G . The holes through which the pin passes being of such a size as to allow a little play to the pos:s, these may bo strotchied jut like the legs of the common theodolite, in thie manner ropresented in the figuire. To the curved iron bar are then attached the fixed block M. and the moveable block N, containing the like number of pulloys.' Each of these blocks must bo hooped with a strorig bar of iron, and the pulleys must be of a size sufficient to admit of a thick rope pass. ing over tham. To the lower block $N$ is to be hooked the iron plug P , consisting of a ring for attaching it to the apparatus, of a flat part through which the ring passes, and of a cylindrical part. This cylindrical part may be 2 inches in sength, 古 of an inch in diameter at the point, and gradually in creasing to about $1-10$ part of an inch more at the neck, where it joins the flat part.The rope 0 , passing over the fixed pulleys, is attached to the windlase H , which is fixed to the posts $\Lambda$ and $C$. At each end of this windlass is a winch, $T$ and $U$, for the purpose of saving time in tightening the ropes previous to the windlass being worked.To work the windiass the.e are stout bars or levers for the reception of which are mortises at $L_{s} I_{\text {, }}$ as shown in the figure.At one end of the windlass is fixed a rachetwheel, with a catch $R$ fixed to the post $A$, for the purpose of preventing the weight from falling when the moving power is withdrawn. The posts $A$ and $\mathcal{C}$ should be connécted by a bar, to keep them steady in their place.


The machine thus formed 19 to be placed over the stone to be raised, by extending the posts on each side of it, and then the windlass is to be attached. Of the stonc to be thus raised, however large it ie, It is enough that the smallest part of it can be seen. At this part let a wnokman; with a mallet and the common boring chisel of masons, make a circular hole, about 2 inches deep, and as perpendiculat as possible, so that a stroke or two of the hammer may be necessary to drive the pin home. When thus driven an inch more or less into the stone, it is attached to the block, and the ropes are tightened by turning the winch.Nothing more is now necessary but to set the men to wrif the windlass with the
levers ; and with no other fatening than this simple pin, stones of somo tons' weight may be casily raised from the ground. Deing raised up by the pulleys, the stone may bo huisted into a citrt or other convenient cifriagt, and removed form the ground.*David Low, Esq.

* An account of this curious machine, the in. vention of Mr. Recrardson, Keswick, and all expmation of the princuple on when the iron pin is retaincd by tho stone, though simply driven into it, were given by the in tho Edinburgh Philpsophical Journal. An account of it was subsequently publisted in the Traneactions of the IIighand Society of Scotland. The iron pin, it was shown, is retained in its place by the claticity of the stone.


## Useful Recipes.

## to cure scratcues in morses.

Wash the feet, or parts affected, with soap stds, wipe them clean and dry; and then ap. ply white lead ground in oil, as thick as can bo sutuothly and evenly laid on. Exercise moderately, keep the animal dry, and in most cases, the frst application will cure effectually. Stould a second be necessary, wash off the old lead, and apply with a brush as at first. Six or eight days should intervene between the application.

## STAGGERS IN SWINE.

To cure this disease, DeGrauchy recommends cutting a knot in the roof of the mouth till the animal bleeds liberally, and then rubbing it with powdered loam and salt, and giving it a little urine to drınk. Pigs hive openings on the inside of the fore legs below the knee, from which, when in health, a small discharge is kept up. A stoppage of these orifices, is supposed to be one cause of the staggers; and rubbing them open with a cob or other rough material, will usually effett a cure.

## sCOURS in ANIMALS.

A writer in the Daine Farmer, recom mends for this disease, finely pulvarized bonc. We have never seen it tried, but from the nature of the substances that constitute bone, such as lime to correst ton great acidity, and gelatine to smooth the irritated surfaces, it es probable uts enployment would be useful.

CROUP, OR Hives in children.
Cut onions into thin slices, between and over them, puz brown sugar. When the sugar is dissolved, a teaspoonful of the syrup will produce almost immediate relief. The Editor of the Farmer's Advocate, says he has known the onion used for this formidablo disease, but prepared differently. "Wrap the onion in a wet cloth, or cabbage leaf, corer it with hot embers, and roast it slightly which may be done in a few minutes ; the juices then pressed out and sweetened witt sugar." Prepared in cither way, it is pronounced effectual.

## ScOURS IN CALVES.

When the calf is attacked, it should be put in a warm, dry stable, and not 10 permitted to suck more than half the quantity of milk it is wont to do ; but should be put to the cow regularly three times a day. Make a tea of equal portions of white oak, beech; dogvood, and slippery elm bark, and give small dosed twice a day, and the calf will scon recover. - Agriculturest.

## HORN DISTEATPER.

A "Practical Farmer," in the Boston Cula tivator, while he admits that the application of spirits of turpentine $1 s$ good, asserts the use of hot brimetone is still better, for the cure of the horn ail. He turns one spoonful of boiling hot into theicavity just between the horng.

## Domestic Economy.

In jouking oner my returns, I was struck whth the remark of a man of mach practical wisdum, and whe of the best tarmers in the Cummonwealth. He says "that a farmer olivuld pruluce upon has farin all those supphes fur l.- family which the farm can be made to yeld." In lus case, thes is dono whinn dours and without; for there the spmmug wheel has nut forgotten to turn round, nor the shutte to speed tis thght. In this cottage, whose neat and beautiful arrangemunts cannot be surpassed, the clothing, the beddus, and the carteling were all the product of all ther win fields and flocks. I shall not swou furget the uapreteuding and hearty liusputahty of these envable dwe?langs. Lhase slepi many a tume under a stihen canupy, and trolden anuy a carpet as solt as the prode of east rat luxury could make at but meser wih anythng like the sentiment of honest pride and independence wath whech I saw here the floors spread with carpets made from there own flocke, which fut fiutaees and beauty the toot of a primedse nced nut desdan, and un a cold nght slept m novillen sheets frum then uwn luome, as soft as the shawls of Cashmere; and wiped nay fice whit cowels spun wh their uwn hauds from their oun dax, of a whtencss as transparent and delicate as the drifted snow. In such besutfiul examples of doraestic management, at juclightul to see with how thanted means the best comforts and luxuries of life may be purchased. Nor were these iustances few. Tha county of Berkshire abuunds with examples of this drmestic comfort and independence. Much to be regretted wall be the chatige wach has already intaded many parts of the Stute, when under the pretence ot superioz cheapuess, these household tabrics shath grve place to the more showy but dilnasy products of foreng industry; and the heality exercise of domestic labor and household cares shall be deemed degrading in our wres and daughters, and exchanged for the sdeness and fruthatucs of pride and luxury:

1 agree entirely in tho seniment above expressed, that every larmer should, as far as possible supply the .ants of has family from lus owa farna. Ile should supply lumeelf whil bread, meat, vegetables, wilk, butter, cheese and clo:husg, as far ay his fann can be made to do it. lie can alnest aluays do it at a less expense than lie can purchase these supplies. The labor requasite for this purpose may often be given at tumes when it would not otherwise be occupied; and by hands for which there might otherwise be no employment. The seutiment of self-respect and self-dependence inspired by such a course, is a great gain. The satisfaction of eating bread rased by one's orm labor 18 not sinall; and various and moportant moral inflsences, which I shall not now discuss, render it altogether desirable; though in some cases the same amount of labor consumed in therr producton, if applied in other ways, would purchane a larger amount of the same supplief. Though the supply of our own great wants from our own farmes, inght seem, bonever, in sume cases, to be a pcouniary Loss, it as elmays in the end a moral gai:with which the pecunary loss is not to be put in competion-Colmaris Surcey.

## European Farming.

I think that the supenonty to be observed in Brish and Flemish agriculture is to be attributed to the nice adaptation of cropethe perfect system that preiails in every de-perticent-the free outlay for manares to insigorate the soll-the patuence that rever tres in the completuon of a task once undertaken, and the industry that in no kind oí weather, at on scason of the year, fails to remenber and perfurm its taske and datues.

England is remarkable for confining to certain districts, the productions which flourish best in those soils. Thus the light sands of Norfolk are best adapted to tumips,yfed off and followed by barley and cluver, therefore in that country the rotation of turaips, barley and clover prevails. It was by ths course that Mr. Coke (Earl of Leicester,) recl. sed from perfect barrenness his splendid estite at Holkham. Warwickshire is fainnus tur beans as a first course, followed by wheat.Lancashire for potatoes as a first crop, wheat and timothy following.
Not less perfect is the systern: cach one las his part and his duties assygned to lunhe is there at all times, and in all weathers, and he stipulates to be only there. And this system pervades all things on the farm.
Upon a farm in Surrey, where I spent six pleasant and agreeable months, I had the opportunity to see the use and the profits of systematic farning. It was a hay farm, of less than two hundred acres- the rent paii, about 82000 . The whole farm, except the garden, was mowed. After the hay was taken care of, the fields were all shut up until there was a guod feed upun them. Then Mr. R, went to the nearest farr and purchased large beeves nearly fat. In these fresh, luxurant pastures, where the grass grew alinost tast enough to render nut fabulous Sir Boyle Roche's story of the kute thruwn into an Irish meadow over aught, hudden by the grass next morning, the beeves became in a very short time fit for Smithfield or Old Leadenhall. After a few days' rest, the fair was resorted to for a second drove of cattle of smaller size, but in good flesh, which soon shared the lot of all fat oxen, and became the roast beef of old England. The tieds were no lunger in a condtion to make beet,
 ment "nearly fat" to take the "first bite" in some unfed meadow. The fourth course was a herd of small Welsh catte to be merely improved. Fifth and lastly came sheep to be kept till the meadous began to start in the spring, when they were suld, and the ineadows shut up.

To recruit this farm, the carts which took the hay to market returned laden ith manures to be used as a luf-dressing.When not bringing back provisions for farm use, I think I may say they always came bacli with manures. Ihad some years ago in my possession a book, which was borrowed by some kind friend or other, and he lilied it so well that be forgot to return it this book gare the best account of the E., olish practice with respect to manures, of any I have ever seen. if was said in that book that five thousand tons of manures had been applied in one year on a single estate. I know that the quantities are immense, and that the lands in that country are bept in a bugh state of fertility by the axiom impressed on the husbandman that food is as receessary to the carth as to ihe human body. But do not think that I hare selected a pattern farm for the subject of the foregoing remarks It was in all respects only 2 medium farm. There conld not be the same opportunity for the more elaborate practices of husbandry that there is in large Yorkshire farms. It is my orinion that some of the best ronaged farms in England were on the estites of the Duke of Buckingham at Stowe, in Bucks. It is, however, the fastion in England to patronize agriculture: heavengrantit may become oo here. You can form no idez with what ease an American can introduce himself to the English, if he is fond of farming, Tho gift of a few ears of Indian corn to the Horvicultural Society brought me tickeis and in. vitations withont number to their gardone and fetes, at Chiswick-Far. Mon Fis.

To cese vakts at Cons-A wnter in Bell's Mossenger sasa, solation of alumin witcr applicd so waishon caide, will cfiect a curo ia a few daje.

Fatcenino Poul.try.-Anexperiment has lately been tried of feeding geese with turmps, cut very fine and put into a trough with water. The effect was, that 6 goese, weigh. ing only 9 lbs. each when shut, actually werghed 20 lba each, after about three weeks feeding with thin food alone.
Nalt is an excellent food for geese and turkeys. Grams are preforred for the sako of conomy, but will not fatten so fast.
Oats ground moto meal and muxed with a little muldses and water ; barloy moal mixed with sweot mulk; and boled oats mixed whit mali, are all exceltent for fatucung poultry, reterence bemy had to tune. expense and qualaty of tlesh.
Curn, betore being fed to fowls, shonld always de crushed and soaked in wimter, or bolled. It will thus go much further and digest easier. Ilens vi 1 often lay m winter When fed in this manure, especially of toll sheltered.-New Gienesee Fiarmer.
a Horse Poyen Reaping Machine-By Mr. G. Read, 76 Barclay-street, New-Yurk. This is the most rationally constructed machine for cutting grain, that has ever bcen introduced. It is mounted on one pars of wheels, and the hurse by which it is operated, travels forward by the side of the standug grain, white the cuttug apparatus prujects to the right about four feet; and taking a swarth of that breadth, cuts and gathers the grain and deposites it in quantities suitablo for binding, and at stated distances on the ground at the opposite side of the machine; winte the attendant has only to sit on a convenient seat provided for him, and guide the honse. On fair ground, one machine will cut twenty acres of grain per day, and in better order than can be done hy the leset grain cradle.

Tobacon Curwing.-The St. Louis Ga. zette goes into a calculation to show the amount of tobacen a man chews in a lifetime. The Editur says:-"Suppoge a tobacco chewer is addicted to the habit of chewing tobacco fity years of his life, each day of that tume he consumes two inches of solid plug, whrh amounts to 6,375 feet, making nearly one miln and a quarter in tength of solit tobacco, half on inch thick, and two inches broul." He wants to know what a young begnar would think if he had the khole amount etretched out before him, and he were told that to chew it up would be one of the exercises of has life, and also that it would tax hus meome to the amount of \$209. We guess he would think it a pretty considerable job.

Hoeses and Oxen for Teams-I hate observed that in many places horses have taken the place of orien, are used for the purpose of sarming, introduced, I suppose, under the impression that they are belter adapted to the service, and more profitable to the owner. I am not about to contradict the truth of this supposition, or prove that a man cannot plough and harrow as iast and as well with horses as with oxen, but shall merely mention a few of the comparative merits and demerits of these aminals, that may determine which is most useful and profitable.
Tho horse, when put to sisrice, must have arrived at has foll strength and value, consequently there is no gun on the capital inreeted, besides what ances from service, and 27 he is good jor nothing at the end of service, there will be a discount at leagt equal to the amount of his cost

The ox may submit to the joike when young, and partly renumciate kis owner for coet of keeping, while obtaining hs growth, When he may be sold to the butcher, and :When he may be .sold to ths butcher, and
the mones sarested in yoanger. utock; thia
there will to a contant gain $\mathfrak{n}$ growth, while the services will be sufficient for the purposes of farming. The hores, if kept on hay alone, must hare his masticating poners in almost perpatual motion ; the ox reserves some of his time for rumination, hence thare may be a difference in the cost of keeping. The cost of equipping a horse for the regular farm service ts greater than that of an ox, and more time is required to put on and of these equipments. In shoeing, the difference of cost is in fayour of an nx , as also it is in the quabitit of the manure .they make. The ox lias an intrinsic value arising from the good qualities of his flesh arising from the good qualited for foode the
and skin, the one being good for nther for leather, whereas very little can be made out of a dead horse. For some kinds of farm service, the horse is preferable to the ox, such as lyght ploughing and harrowmg, but for carting, hauling stones and other theavy work, he is yot so good. He is betuer adapted to the road service, and is useful for milling, markeling, and meetening, he also may be uned for journcying and visiting. It 18 convenient, and perhaps profitalle, to heep both these useful animals as well as cuves cheep, and othrr stock, but cilen the number of horses greatly exceed those of oxen, or even cors, it is cime to begra to cuunt the cost, which may be done by openng accoun: current with cach aninal, keeping debt and credt, or what yougive or receice from each. -Maine Farmer.

## Culture of Wheat.

Wheat i-- he must unputant of ail the grams ond its varictices are numerous. Anoong thase now in crlliv tion, the following may to enu:
 tarr, the velvet car, the cggzohell, the hedge-
whieat, the Essex dun, the Kentish yellow, hie whue and red Essex, tho Mungoswell's, the Bur. well reb, due Hunters, and the Gicorgian. A gencral divinun of whest simate nito white and red, wihs Tril shades bewween, and sumniner and wimer. Winere wheat may bt brought in:o the nature of sumnicr, by aleering the unc ot
Giwing. If winter wheat bo sown at tho penod fir puting sumner whicat into the ground, in tbe coutse of two ecasons the wanter wull become ot a similar lizbit as the summer, and the some process will bring a summer wheat to bo a winter ono.
In general, the fine white wheats are proferred to the brawn and red; bua tho lanter is most profitble for wet adllcssve soils, and unfavourable climates, on a arcount of fith hariminss and ripening
carty
rcd wheat, of cantly A red wheat, of great prodactiveness
has beca recenty murroduced mto Scotand from Mritance.
The raricty of wheas moes profirube to bo producced mugr depend upon the namire of the
soil, as land wiich hus produced an indifferent crop of one may yield an abundant crop of another kind, and land is trequensly found to yicid better
cropa 1 tho vancties be alternately chargel. $I_{t}$ crops of tho ranctics be alternately changel. It has been obsereced, thate maxture of grain proda
ccs the hearneat crops, and that muxed four makes ces best hanead.
The necher deecrinton of olespe wed sumg lomms are the best adepred for the prodiction of wheas, bbitif properly cultratced and well manured nny rariory of these twa noibs xill produces excel. lent cropo of his grain. Good wheat lind ought alwase 20 possess o large quantity of clay end lit Ule sand; for athough tipht soils may be mande 20 prodaco good crops, yee he strong clay lands in feperal yield the bearicst grain. Sandy soỉs -upport to the roots of plants such 28 whent which do not sink fre into the soil. There aro
ht soikt, howerer, madd from docompocod gro. itte, fclspar, or clas-atone, comporuded wib vo rteble matiter, which prodicce excellens whent Terge soin abound in tho neigbbourhood of Edin-
Irequendy sepcrior wo zny in the Edinberagh
arket. The prodice of thcse soils, howeres, in ucch hur by dy westher
"Colonell lo Coutom, of Jexses, has mado the
study for several yenre, and has arnved at the fol. lowing conclusion by actuol and careful experi. ment :-aunely, that one car of a superior varic. ty, sown grain by grain, and ouffered to tiller apart, produced 411.4 unnces of wheat, whercas another car of an juferior sort, treated in the same manner, produced only 1 lb . 10 ounces. This proves that it is of paramount importance toselect the most productive and farinaceous sorts forseed; it being obvious, that a farmier who would have sown his whole crop with the last variety, would have probably been runced; whercas, tho superior variety would have enabled him to farm with profit.? It is hardly possible to cater a field of wheat nearly ripe, wihout observang that the ears of some of the plants aro much supenor to the ge. nerality of those growing around. Several new and excellent sorts have been obtained, by intel. ligent farmers making a selection of these re. markubly superior cars ; saving ond growing them apart until the pure stock was increased to serve themselves, and, in time, their immediate neigh. bourbood. $3 y$ such means, the Ifardeasilr, the hedge-wheat, Ifunct's, Ifcckling's, icc., have been originated; and with manifest advantage to the suwers, so long as the sorts ware tept purs, and atention beng paid to geving the sorts those mosi suatabie sorls whel expenonce had pointod wut. This mode of ubtanung amproved varieties of coma, su sacimusaly advucated by Colonal be Couteur, has been pracueed but by few fammers: a gineral ides prevailing among them that it is the richness of the land and judicious culure which gives quality, and conscquently valuc, to the eamplo. In this they aro partly nght; because, though very fine wheat, in a miller's estimavon, may be grown on poor iand, it isimpossi. ble to grow a profitable crop; a great bulk of both siraw and grain answering the farmer's purpose better than the lugh quality of the tanter But Colonel lo Coutcur secms fully canvinerd that both these obycets, that $2 s$, quantuty and quality, may be obtained at the same time, upon ordinary wheat land; and thes ss a cesuts :hat should always be kept in view by ogriculturists. Adapt ing the sort to the soil is one means for securing success. Tho sed and yollow whents answer be'ter on the heaviest clayey loams than the white varicues, wheh are delicate, and mone sumable for lands of a lighter descripison."* Sir George Mackenzic of Couphas found by experment that the rancty of wheat, cullivated so successfully hy Colonille Culteur, thrires well in Ross-shire, and in that northern copnty actuelly yelds a heavier produce than in Jersey. This, bwwever, we must ascribe 10 Sir George's skifful mode of farming, more than to either soil or climate.
The hate Mr. Brown of Markle, an experienecd afnculturist, was of opinion that jrofitable crops of wheat nuybt be produced overy second year
on rich clays and loans, if well cultivated and si on rich clays ind loans, if well cultivated and situated in a good climate. Land, however, must be highly manured and judiciously fallowed, to bear such frequent ropetwons of wheat.
"Tho season for sowing wheat is necessarily regulated by the state of the land, as well as of the seacon, on which account it is not alwass in the farmer's power to chocse tho moment he would prefer. \&fier fallow, as the season allows, it may be sown from the end of August to the muddle of Noramber. On wet clars, it is proper to sow as carly as pansible, as such soils, when thoroughly drenched with moisture in antumn, are seldom in a proper state for harrowing till the sacceeding egran. In tho opinions of many ex pericnced husbanimer, the best season for sow. ing wheat, whether on fallow, rag fallow, or ploughed clover atabble, is from the beginning of Sepiember to the 20 th of Octobor, but this must depend upon the stato of the soil and reather-In East Louhian, on dry gravelly Joams, in good condition, after a clover crop, and well prepared, wheat has been known to succeed best when sown in November. Aficr dilled beans, whenover the acason will admit of plonghing and har. rowng, wheas inay be sown from the mudale or ead of September to the muddlo of Norember: after this aesson, the sowing of wheat ongit not to be-hazanded till the sprang que-ter returns.
After turaips, when the crop in consumed or led off, and the groand can bo properly plongtied, Whent may be sovin any lime betwint the lat of Febrcary and the middle of March, and it is cus. tomary to plough and sow the lond in succeseive portors as fust as the turaipe aro conamed, It
is only on turnip soil of a good guality, verging tuwards loan, and in high conduon, thut winter whent, cown in spring, can bo culuvared with sucecss. When circunstances are favourable, however, it will generally hoppen that suchlanc's, when wheat is not too often sepeated, will nearly produce $n s$ many bushels of wheat as of barley.Tho wheat crop, chacreforc, on an overage of seasons, will exceed the ralue of the batley crop con. siderably; hence 1 is culture is an object which ought not to be neglected."*

Wheat, as will afterwards be more particularly mentioned, is liable to ccrtan diseases, as, for ex. ample, smut, muldew or rust, \&c. Whithe view of preserving the grain from theso inost injunous disorders, it is customary to prenare the seed by stecpugg or pickling it in a kind of salne bnne, or diluted urine. Tho value of this process may bo learned from the following experiments, as stoted in vanous reports before us. Mr. Bailey of Chellingliam tried expenuncuts on seed in which waro a few balls of statu. Onc-third of the seed was steeped in urine, and linced; one.third atceped in urine, oried, and not lineds and the other third sown whaul stecpug or limang. The result was, that the seed which had been picked and limed. and that which was jnched and not limed, wasal. miss frop nifmut; whilo that whech was sown without undergoing this pucess was much dis. vased. Thr frllowing experiments were made at Lord Chesterfield's farm of Bradly-Hall, in Derbs-share:-Thet first was on a peck of very smutty wheat, one-ib:lf of which was sown in the statc it was bought, and the other washed in three waters, sirepred two tours in brine strong enough to float an eger, and then limed. The resule was, that two-thirds of the wheat grownfrom the unwashed secd was scunty, while that produced by the stecped and linted seed had not a single ear of stnut. The second experment was made upon some very fine wheat, periectly free from smut. $A$ quart of this was washed in threo waters, to make at perfectly clean; it was then put for two daye into a bag in which was some lasek dust of smuty grain, and the result was that a large portion of uheat thus sown was smutte, while out of twenty acess sown with the same grain, notrinoculated, not one smuty ear was found. Mr. Taylor, junior, of Ditchingham, near Bungary, ubbed a number of cars of wheat with the powder cf smut, having moistencd them to make the po wider adhere; one-balf of theso sicre washod, Wetted with chamber lye, and limed. A similar quantity of dry wheat was then procured, the whole bemg diblaled, cach parcel by itself. The produce of the infected wheat was three-fourths emut; the same infected whent, steeped and limed, was per. feedy sound. The valuable resules arising from stecping wheat sced need not be futherillustrated, and we shall now proceed to describo the pro. cess.

## Siceping or pich ling is perforned, as already

 mentioned, aftor the sced has been washed, by allowing it to lie for a time amongst stale urinc. diluted with water, or salt brine, of sofficient strength to float an egg. This seed is put into tubs, containing as much liquid as will corer the grain a few inches, and allow it to be well stirred, so as to bring all the light grains to tho surface, which are skummed off as long as they contin ue to nse. Anotber way is to per the sed into bsix keis, which are ummersed in the water, are easily taken out, and can be conticniently placed orer an empty tub to drain. The seed is left for therea or four hours in the chamber lye, or full sox hours in the pickle, after which the liqnor is drawn off, and the whest epread thinly on the floor of the granary, where it is wrll sprinkled over mith quack-lime, slicked in the liquia. About balf a peck of limo is sufficient for a bushel of wheat, and at should be will stimed, so that cvery grin misy get a portion. If ibo seed is to be drilled, it should be pasecd through a coarse micre after being limed, which will facilitato ite progrees throut the machine. The grain will thas be quickly dried; and it shavld not lio moce than six hours in the heap, then be spresd out and need the folloring day.Some cantion should be used in having the time properly alaked, for if this is not done, too great a heat may be raised, wilich will destroy the rege titive principle. Doubts have been expressed of the efficacy oflime, and a solutuon of conperas is uscả on the Contincrit instead. Dry powdernd lime would certanty havo no effect, bet wien
nowly slaked it is yery efficacious, ne has been proved from experiment. It was found that a gitepp of limo water alono, in which wheat was immersed for four and twonty hours, proved a piserefful preventive of disease, whilo tho good offects of unmixed brine were very inconsider. abic.
Of the two kinds of atcerss mentioned, urine 18 thought the nost efficent, and at shuald be used neither too fresh nor too stalc, as in the first stalc tit is ineffectual, and in the second injurious.The seed slould be sown as soon as dry 3 for if allowed to lio in sacks or heaps beyond a day or two, the limo may be very hurtial. Another steep, which is rocommonded by Sir John Sinclair, and is much used in Flandes, France, and Switzerland, is a weak solution of the sulplathe or copper, or blue vitrol. The modes of using it aro as follows :-
Into eight quarts of boiling water put one pound of blue vitrol, and while quite hut, tiree bushels of wheat are wetted with Itrc quarts of the liguid; in three hours the remaining threc quares arc added, and the wheat is suffered to renain three hours longer in the solution. The wholo should bo stired threc or four tumes during the six hours, and the light grains scimmed off After the wheat is draincd, alaked lime is thrown on it to facilitate the drying. Another way of using it is to dissolve five pounds of the sulphate of copper in hot water, and add as much cild water to this as will corce three busthels of wheat. The wheat is allowed to remain Hive or stx hours, or even longer, in the hquid. After two or hrice bass, of threc bushels cach, have passed through the liquid, one pound mure of the sul. phate for each bag shuuld be added; and after twelre begs or so have passed through, new liquid will be required.-From a Treatisc on Agriculture, by James Jackson.

## Communitations.

## -So wo Edtror of the Britheh American Cultisator.

 Sir:Having almays taken a deep interest in the Agricultural prosperity of this country, and having ever been of the opinion, that a well conductod periodical, puiely devoted to that mbject, would be one of the most efficient meana that could be made use of to edpance those interests, it gives me great pleasu:e in witnessing the exertions you have alreally mado to establish ono of that charactor; and I tail it as one of tne most promising indications of the future prosperity of the country, and inost sincarcly hupe, that thoso whose intercsts you are advocating, will from nno end of tho Prorince to the other, como forward and sustain it with their subscriptions. I amnell awaro that in order to onable you to do justice to your un. dertaking, you must havo a large list of paying spbscribers, and 1 hope a sofincient number will bo found amongst tho Farmers and Me. chanics of Canada, 10 givo sous paper such a circulation, as will amply soward jour partiotic undertaking. To make the columns of the Culcivator interciling. gou must havea number of Contribctors; slthough I am rery incompetent, and cannot clothe my language in a siflo as cdifying asenany, yet il feel it an incumbent tuty to do what I can, to ate an example for Dtherz and encoarage you in your p-aiserworthy undertaking, particularly so, as 1 hare had the honar to be placed at the head of the Agricultu. ral Society of this District for some time.

I foll in hopes that many of thoso practical Carmers intcrapersed through our country who are moro competent than missclf, will be in. Haced to exerctse their pens for the purpose of pronoting the great and leading interents of thas coantry. If those taterests are in a healthy and prosperous condition, all others in thois train will advance proportionatoly, bot a do pression of that art in which nine-tonthe of the whole population aro oogaged, zust inovitably have a deadening infaence upon every othes branch of bawinest in the country.

1 trast your Journal will havo an extensive cisculation arnong the mechanical class of the community, and knowing that there are many mong that clase who, from their intelligenco and habits of application to usefal reading, aro Well qualified io contribato to your columns, I hope they will not allow diffidence or a croad of oritucinm io dater them from coming befors
tho public, for thore is no doubt they could communicate much useful information. that would not only amuse but instruct.

No doubt, that clase who havo been qualified hy a superior elucation (I moan the gentlounen of the lournod profossions, will, occasionally enrich your columne with an arijele couchedin a more clognt stylo, and with a highly polishs ed jiterary finish; which wall serve at modols for those, who like myselt, afe more practical thanseientific, but neverthelces, yre anxious to 80e the country prosporing in its agricultural, commercial, mechanical, and litorary interes
E. W. THOMSON.

Bronzio, Toronto, Jan. 15, 1841.
To the Editor of the Brithat American Cultuator.
Toronto, 10th January, 18 12.
Sin;
Pormit mo as one of the many vi'ro will, Iam sure, bo bencfited by roading the Culavator, to return my thanks to you for that service which 1 anucipate the publication of an Agncutiasal paper wall render to the country.

That the tarmers of Canada are as anxious to advance their interests as any in the world there canbeno doubta and as agncultural instruction by means of the press, has been found so haghly bencficial in England and elsowhere, I am satusfied you will neet with that public encouragement which is jusdy due to you as the first Editor in this Province; of a paper devoted exclusive. ly to the extension of its ngncultural interests.

If the farmers will frecly make known to each other through the medum of your paper, the results ot their expericace and opinions on the nrepanig of the ground, the tume of sowing, the quantity of seed requisto to cach variety of sonl, and tho treatment of therr stock, \&c., \&c. they will, by contributing such matier to the culumns of the Culnvator, not only encourage your undertaking most effectually, but support tho best interests of the Province.

Wishing you overy success,
1 am, yours,
W. A. BALDWIN.

## The Properties of Gypsum and

To the Fditor of the Britha Amertean Cultivator Str,

As there is a growing prejudice arrains: the use of Plaster of Paris and Lime, through an mjudictous application of those substances as a stunulating manure, I hope the following remarks will be the means of correcting
The value of Plaster of Paris uponall sandy loans in dry situations is micontestable.Plaster having perhaps the greater attraction for carbon and moisture than any other substance; attracting by its affinity muisture from the atmosphere, and as an agent giving it out to vegetable matter.

Lime also has a great attraction for carbon and moisture, so much so that in about four days it will absorb one-fourth part ofits weight when taken from the biln. It is very sel. dom found in its pure state being impregnated with carbon, whence lime in the quarry, is called Carbonate of LimeIt contains 56 parts of lime and 44 parts of carbon and earthy matter-plaster contains 50 parts of phosphate of lime aind 50 of ploric acid and other matter. The breath exhaled by man or beast, although ever so pure, when tatien into the chest, ia highly impregnated withit. The impure alr caused by corrupted vegctation, which arises from marshes and swamps, shows plainly the reason. those places are unhealthy-as there is more carbonaccous gas formed than the regetable substances can consume. Lime is essentally necessary to vegetation. Erery plant or shrub, if dried and burnt to 2shes, contains nearly hale ite woight in lime. This speatis volumes to the farmer of good understanding. If he sells his hay and stran from his farm, he robs it of a great leal of the lime which was incorporat-
would in a short time mako it nearly dead matter. - Barth in its primeval atate, has a proportion of lime, somu greater and some less, which is seldom found two great for the nourishment of plants.

Plaster has a powerful agency for attractinn to carbon, which may be understood by noticing the effects of about one bushel sown upon an acre of meadow. On a dewy morning in the spring, throw it over your fruit trees; if they are forty feet high the influence will be the same. This fact will be sufficient to convince the ignorant, who imagine that plaster extracts all the virtue the soil contains. I will venture to assert, ifiall be talen back on the land in the shape of manure, which plaster, lime, marl, or other stimulating mineral substances caused to bring forth, that no alarm need be given as to the result. But the great discrepancy rest upon this point, by giving a dressing of these substances, a great return will almost invariably be the result, consequently the land is irnpoverished in proportion to the produce. The common practice is to dispose of much of the hay and strak; and those who practice that system, forget that they have robbed their farm, and omit to purchase nanure from those who purchased their hay or stram, and by that means fail to keep up the original qualities of the soil.It is not uncommon, tirough the agency of plaster, on red clover meadow, to get a return in one summer of four tons per acre, (including first and second crop), that quantity judiciously fed to stock, might be con. converted into manure, sufficient to top dress an arre, and by following ont the plan of plastering and topedressing, and allowing nothing to be wasted which is produced from the land, the fertility of the soil will be in. creased yearly. I'his doctrine may appear strange to some, but it is no more strange than truc. To conclude, I hope those who are under this false impression, will take Lhe trouble to read these few lines, and if they digest them properly, I flatter myself that I may be the instrument of convincing them of thoir error.

WILLIAN WALLIS.
City of Toronte, Jan'y 20th, 1842

## Rohan Potatocs

To the Edtor of the Dithish American Cultivatur.
Mir. EDitor,
In your first number of The Mritish American Cultivator, I noticed an article, headed "To Correspondents," in which, amongst a variety of roots and plante, which you set down as "humbugs," the Rohan Potatoes is classed as one. I was very much astomshed to see this putatoe termed a humbug, hnowing to the contrary that it is an excellent potatoe, and well worth culuvatung by every farmer in Cz nada.

I raised in 1840, a patch of the Rohans, which returned me a crop at the rate of sur hundred bushels to the acre, which certann! cannot be termed a bad yield. A friend of mine in this neighbourhood, planted one acre of Rohans last year, on purpose to see the quantity they would produce by common cultivation. They were planted in drills thirit inches apart-the ground previously being in a very bad state of culuva-tun-but was subsequently manured at the rate of sixty single horse cart loads per acre, and treated in every other respect as his other potatoes. When ploughed up in the fall, they grelded a return of four hun. dred and thirty bushels of good sized poiatoes.

I hare been frequently told that those potatoes were good for nothing but feeding pigs; but I can assure you when they arc properly treated and grown on a light andy
good flavoured potatoe. It is not unusual to claes among the humbugs, many valuablo roots and plants, before their qualities aro properly tested by a regular system of cultivation.
I would recommend the following system fur cultivating the Rohans, and if only your readers thunk proper to adopt it, I am satisfied they will not be disapponted in a crop. Lay out one acre of grcund, or any given quantity ; let it be woll ploughed and harrowed, in fact made as mellow as possible, form it into drills three feet wide, and manure at the rate of fifty cart loads por acre, spread the manure in the urills, cut the potatoes into setts, containing two eyes cach, and plant them on the top of the manure in the drille, thirteen inches apart, and cover them with the plough, and by all means havo them planted as early in the month of May as possible. The after cultuvation meroly consists in keeping them clean and free from needs, and earthing thein once or twice as occasion may require, with the plough.Wishing you success in your valuable publicaten.

I am joura,

## JAMES FLEMING.

Toronto, Jan'y 22 nd, 1812
Note by tal Eortor.-In spec ng the Ro. hans in our classification of modern humbugs, we did so through the firm convicuon that tiey were not what they wera boasted to be-second to any, even pink cyes not excepted. Although these invaiuable varicty of potatocs, as they aro termed by their advocateg, have succeeded with some under puric cilar circumstances; yet os a potatoe for general cultivation, he would an our humble opinion, consider them infenor to thany other vancues. We ehink the majority of those who have given them a fair trial, will bear us out in thes opinion.
As Conductors of a Public Periodical, we may at times orr in our gudgruent, but we will with pieasure, at all times, msert contrary opuions, if they be supported by sound argument, and by persons of practical expenence. Uur object is to instruch, not to mislead.

## From the Montreal Gazette Mr. Evans Report, On Agricmltaral Hmprovement.

On the cost of breeding and fceding catlle, skeep and swine.

In my last communication, I stated that I would cubmit for constderation, what I csumated as tho cost to the farmer of breeding, reanng, and fat; tening animals in this country, I shall begin with neat catule.
The valuo of a calf, ummediately at her birth, I set down at................................ tion should be worh fire shullugss a month.
Pasturage, from the time the calf is
able to eatgrass, until the commencemant of the following winter .........
Hay, roots, or other winter food, for the first winter, sag one hundred and cighis days.

050

Cost at the end of tho first year from birth ..................................... Secoad year, pasturage for the sum-
$\begin{array}{cccccc}\text { meep for second winter...................................... } & 1 & 10 & 0 \\ 1 & 0\end{array}$
Jost of the animal when two ycars


## -ust of the animal when threc years

 ounh year, pasturage for the sum. 5626 0150set of the animal when three and a
half years old..
I have not charged for atuendance, as I con-
der tho manure made by the animal will pas
for that. I would observe, that if the animal is a heifer, they generally produce a calf at two years old; when lier cost anounts only to four pounds currency. In any case they do not exceed three years old, when they produce a calf, and begin to make some return for thetr keen. and the capital anvesied in them, in rearing them to that maturity. I do notsce, that in any situa. tion in Canada, huwevos remote from narket, if the animal has to be fed under cover, or in yards during the winter, that I would estimate their cost at less than I have set down for the scveral periods. Hence it will bo perceived that a heifer of two yrars old, the carlicst possible period that she can yield any return to the farmer, hias cost him four pounds currency. And an ox kept to threo years and a half old, the carliest possible poriod that he would be fit Ere the sham. bles, will have cost the farmer six pounds, seventcen shillings and stx pence currency. In this estimate I have omitted any allowance for casual. ties, which would at least requira ien per cent mn agricultural nnimals. Interest on capplal should also be allowed. As the quality of the anmals will depend chicfly upon the breed and keep, I cannot pretend to estimate accurately their vaiue when at maturity; or at the several periods above referted to. Under ordinary circumstances in Eastera Caneda, I do not suppose that I could faitly ostimato the weight of an ox of threo years and $n$ half old, at moro than from five to six hundred pounds werght, of bocf, hide, and tal. low. Hence it wall be easy to calculate and as certain what price beet should brang to pay the Canadian farmer the first cost, interest on capital and a rassanable profit. It is perfectly clear, bnwever, that the present prices in our markets will not refund the farmer his actual expenditure. In the present stato of our agriculture, I doubt very much, if the averago weight of Lower Ca. nada oxen at three and a hill years old, would excecd five hundred pounds at the utniost. If cattle are well kept at all times until at mancrity, they may produce more weight of beefand tallow, but they will cost the farmer more than I have estimated for them. No farmer ressding within convenient distance to market, can rase catle at the estumate 1 have latd down tor them. If oxen should be kept the foursh winter, and stall fed, thay might pay betuer, but the number thus fed should find a home inarkct, and that would be very limitad, and in fact it cannot be counted upon with any dogres of cortunty under present circumstancus, A farmer may expend a large zmount install-fceding a iot of cattle, and when they are ready for the shambles, a lot of fat cattle are brought in from tho United States, and the price may be reduced to what they cost him when put up from krass, or very ncarly so. Hence it is, that none of our farmers can safely attompt to feed cattic fo: Canada markets, as there is no assuranco to hum of anything but lose $y$ daing so,
Of the cost of raising horses, it is needjess for me to make any estrmate. The sale of horses depends a good deal uponfancy, and other accidental circumatances, and as the farmer will al. ways roçuire horses, they have to be raised at whatever cont
It is scarcely neceseary for me to attempt to es timate the cost to the farmer of rausing sheen to maturity. I may observe, howerer, tbas it is on, ly by the mosi carcful manageracnt of sheep that they can pay the farmers in Canada. If a good produce of lamis are noz annually raised in proportion to the number of the flock kept, it is im. possibles the keeping of shecp can remanerato the farmer. It requires a lamb, and fleeca of good weight, to pay for tho keep of a cyre, that iskept as sho should bo kept to nsuurs profitWhile thousands of sheep aro constantly coming in from the Unated Statos, sheop nerer will bo generally and extensively Lept in Canada, however necessary and adraniagcooss they would be to Canadian agricalture. We have abradant proof that there is not anything in the clanate or soil of Capadz, that would prevent us rasing and kecping the best of shecp, as wo havo soveral focits of the finest and most ralusble description of thoee animals in the neighboarbood of Montrand and in many other parts of the countrypose, eran under the prescent unfarourabil. cir. cumstancex, find amplo remuncration, but it is "c. cause there arc only a few, comparaturely, of such chaice flocks in the counury, If good shecp prore more generally to be found, and the frce admis.
conld keep sheep p. fitably, of whatover dos. cruption.

Fow experiments havo been made an Canada on tho feeding of owine, with a view to nsecttoin the artual cost of producing a certan quantity of pork. Swinc, to a certais age, aro chuelly fed on the offal of dairies, thokithen, and on grass in summer. It oosts someihing, however, to bong them to a.t ago, that they are fit to put up to fatten. A good hreed of pist put up to fatten in fair condition, if fed on $\mathrm{g}^{\prime \cdots} \cdot \mathrm{z}$, (the very best food for minking good pork), tuly mercaso in welght at the rate of about one pound or somo. thing over, for every gallon of peras they consume, and if futtened un ollier grain or vegeta. blea, they will bofound tuintrease in weight very nearly in proportion to the nurritive matsers con. tained in the sort of grain or vegetables they aro fed upon, compared with the nutriment in peas. In Enginnd, or whero daties are kept, they gencrally keep one pig for cvery four cows, and they expect that each jig, will, during the summer fed on the checse whey and offal of the dairy increase in weight about 200 lbs., or about 50 lbs. for the waste of each cow. I suppose the somo result would be obtained in Canada. From tho nearest estimate I can mako of the cost of feeding pork, from the pertod of putting swinc up to fatten, I belicve fiat crory pound weight of flesh they give, will cost the farmer at least throe pence, or at the rate of five dollars the 100 lbs . In most cases, it will oott much more, when there is not agood breed of swine, and whon they are not judiciously attended to. Any individual who will purchase store pigs in our markets, and try the experiment of buying food for fattening them, will find that the pork fed, will cost him double what the farmer can sell for, or I should rather say, can obtain fir ir, in our markets. In England they expect that a bushel or barley will produce ten pounds of green bscon when firsa dricd, provided the hogs aro of a good breed, and easy to fation,
It is much to be regretted that we have not tho result of nccurate experiments on the feeding of neat cattlc, sheop, and swine in this country.When such expeciments would bo made, thoy hould be very carc fully attended to throughoutIf this was not done, it would only lead us into error, At the commenecment of the experiment, the animals, of whatever kind, should be wrigh! ed, and subsequently every month at foast, during the time of feeding, and finally at tho close of the cxperiment. Also, the food consumed daily, weekly, and monthly, tho sort of food mado uso of, and whether raw, boiled, whole or ground.The age, and brecd of the amimils should be noted, and whether male or female, or had pro, duced young. Experiments might also be made on grass fed catule of various breeds. It is by adopting such messures, that farmess will understand their business, and the value of varnout pricies of amimals, and of the food they con. sume. I have seen many wonderful statementa of what animals have been brought to, but nat s futue of information of the cost of bringing them to that great perfection. The farmers of Canada want profit more than show, and have not capital to expend, Rithout somo prospect of its being refunded to them.

I am song that I could nor givo more accurate $a$ information on the cost to the farmer of fceding pork. If I am fonnd in error in any of my estiz mates, I shall be glad ta be set right. My only object is to bring tho stibject fairiy before the public, and with that view, I have made my cos timates at accuratcly as was in my porref ind without any intention to mislead.

In conclasion, I am happy to have it in my power to acknowledgi tho receipt of the firat number of the Britisk Ameriagn Cullicator hanags only reccired it last nighty I had not an opporcumty of reading the articles throughont; I have seen safficient of it, bowever, to warrant mo in recornmending it to every farmer in British Arnerica, and whsh the propriciors avery posable succoss in thear laudable andertaking. Such a paper was greatly wanted in Canada, and if the farmers desiro their interants to bo adrocated firrly, and constantly alterded 20 , thoy will suppent this paper, and givoit it foll and fair trial.

WM. EVANS,
Coto St Paul, Dec. 31, 1841.
Pronerce-Prudence is of more fregnent pa than any ouher intelloctualquality; it is excred on slight oceasions, and called iniuacot by tha cur: sion of foreign sheep io coninue, no famef wory tunidess of common lifc.
(From the Albany Cultivator.)
Norih Deighton, Wetherby, Yorkshire, April 17, 18.11.
Ge:themes- Your pohto favour came to hand yesterday, tor wimil I beg you will accept my best thanks. 'That ony elfurt of mine for the eprend of ogncultural sesence, should entitle mo to the notice of those who are develting their energies to ats cultuvatun til a country so fur distant as Amenca, I do not for a moment tmagme, nod for this reason it is that I fect is as a comple: ment. But a is not as a nersoul complinent thint your communication gives se greatest pleasure, nor is it for the satie of bandying unmeaning verbage (fursuch is reciprucal "cawag" to uso the Scorchman's term, that I lose no tuno in acknowicdging it; but becausa 1 regard it as one more evdetice of the diflusion of a spint of cituzenship (If I may use the term,) an the cultuya. tion of agricultural setence. And, udeed, $1 t$ is only by on encouragement of the spmint, whech regards not tho boumdanes of natumblity, and confincs nut its exertions tu cather '. New' or 'Old Wurld, that knuwledge can ever to surely promoted, or that a treul.ure catt cier be what 14 ought, an unversul science, as perfect in its principles as it it profitable un us practuc. That is sa entated to consuderation as a profitabio science, none I thut, can dem: for of sill sctcnces it th the only ure which can be furrly sadd to produce or create nealdh. Such, thwever, 12 docs; and the nation cacouranagg it ts cneoura. ging the very moans wheh will lat tucrease its weald . That it ever will become at pertect in its principles as it deserves cammethe assericd-we may hoje it ; that it will, however, becone much more so than it is, is certain,-and the most con. clusive evidence of thes se the rymert of intercommu. necation and of recurrocal assistance betwern the agriculturists of different counmes, whe, hateng difer ent sots, clituat $s$, and manness, hare $d i f$. ferentopportunitics of observirg phenomena and recording truths. But $h$ an syeaking whinsans. cically. In this cause, howeter, you will ex. cuse it.
I am glad to observe that you have cstathalied An "New.York State Agncultural Sinctety." Of the ndrantages to fluw frem si, trs unitecosaty ior me to dilate to you. Neveribeless, 1 may say, that in my opinan they will be nexther few nor un. mportant. In England, whese socteries are donng much, and they will yet do more :-min what way Sheve endeavonred to show m the " Waterecti. Journal of Agriculture" for best monht, wluch you have perhaps seet.
But I augur success to your sacmites on an. other ground. The great obstacle so andrulumat inprovenent ma Englend has becen an apathctic offection to old pians, amis an avessuan to mudern maproveruents is s steso fangich nutuons". Thus feching you ihare not to cuntend wah. A great proporvon of Amencan famers, especiatly thoso who have emigrated front Europe, haye no hereditary prejudices:- they are men who have some Quixotic spirit in them-1hey have broken from the beaten path of their facthers-have risked ticir all in a country, to the chmate, custome, and 6011 of which they were strangers, and they are, thereforc, ready ios scize upon errey infurmation, and to tes: every systen wiach will increase ther knowledre er mprove demi fanns. Or, 20 speak plainty, they conic as strangers, feel that they are ignorant, and ere not above receiving instruction from amy source. In Eanhind, very often, men inherat the farens upon whech uley were born, ond with the property of tho pareat tubent, too, has prejudices. To them these prejudices are proverbs, and they practice thers in spite of all the oppasition that modem ecience can make. Education, bowevcr, is fast dispelling this eloud whech have solong darkened the horizon. Even now, in Scoland, and the North of England, it 13 no bigser than a man's hand.

I cannot conclude withoutsaying a word on the - Cultavator'. Tillitesarmes, I bad no adce that the Americen farmers could boost of such a jour. nal-for, with all our advantagus, I must eay hhat we cannot show a journal likely to bo so rsacticals uscful. Oar journais may be, and aro hugh. is wefful, but then their miec, and the hagh tore in which they are wnucn, confine chem amongst the educated farmers who least sequre their add. Was thero e jourmal csiablahed here, and con. docted in the practical manner that the Culura. tor $i$, and at rite same moderate charge, I have no more doubs of its complete nuecess fian I haro
of its usciulness ammongst that class of farmer Who require enticing to "ndopt" improvements. 1 havo written at length, (end probally not in relligibly), for I must gas; (and I am not pasamed that it is so), my zealin the cause of agriculture is greater than my ability. As brolier fabouress howover, in the same ficld, I know you will ex. cuse my proluxity, and believe me to be, gentle. men,

Your obliged servant,
JOHN HANNAM.

## JOLINSTUWN AGRICULTURAL SOCIETY.

We have before us an address delvered before the "D Datict of Sohnstown Agnculturalisuciety;" - Wa. O. Buel, Esq., and which both in matter and mannes is worthy of the mportant subsecte iscussed. These relate to agriculture itselt; to its comdtuon in the district embraced by the suete( $y$; and the suggestion of such means of improve. ment in husbandry as seemed begt adapted to the tumatry. We should bo pleased to extract hberally, but our lmats forbid. Asspectuens we give one or two detached paragraphs. In treating of the best methods of smprovement ho says:-"But egreulture too whorogressing by the assistanco of science in good old England, as also to the United Siotes. The efforta mado ly the leamed, by ag. ncultural associations, ly experiment, are worktig wonders. The bgint has not yet prevaded vur own beluved tand. The way to berme the work is to get uy and cucourage a cheap periodical pablication, and let every man feel it his duty ra cxtend is circulation. dilhis is a nost powerful and efficeciventeans of duing good; it is no experiment it has been tried, and dears tha impress of wisdom upon the face of it. Meanwlite the farmer-cyery farmer-no execptions-should be suphted nith an agr whetal paper." After numimg che Alluny Cultivator as a valuzble and dheap pubticatuon, he add-, "there may soon be a Ca nudian Cultizator.' 'This last is an inpurtent sugesestion. The farmers of the two Cauadus ought to give suth a yajer ma enicrem support, and we kave there is tateat cnovght to mance a moss able and anteresting juurnat.
There is much truth in the fillowing remarks. Let every farmer read and sumember. "It ; easy to tell a goond famer by the appearance of bus place, andit is always a blessint to a negh. hourthoud to have such mas midst. People wil learn many hums from hiun, wathout hemb, as a Werc, aware of 12 ; they will learn in spite of bhemselves; his example and success zoill influcace them. Now what I wieh to say is, that whenever you howr of a good jurner, ingutec all atmout hum, atour has fasm, whint stoch hic heeps, what gran he rateee, how fyr he is from market, of fus whole manaeremen; anh abour has tanuly in short in yeur own minde, lecomo diectuventhy acquanted wan him; and dy jou find any thanis worth rememberng, whech camut fal to to the casc, renember it; any lung worth followng, follow it You need not 20ait to hear of a mano this kind, but when pou meet with another far: nicr from a distapt neighbourluod, ask whe is tho best farmer, and so on. Every neighibourhood, your own for instance, bas somo farmera better than othcre-now, 20hy are they better 3 make the inquiry; trace the thage to the bothom - $1 t$ may do you much goad."-lb.

The following has been oxuacied from a very recent English pablication of meris, writeg by A. Walker, and forwarded for publecation in the Cabinet.

## CATTLE.

The best cave have the face rather short; the muzie small: the horns fine : the neck light, particularly where it juins the head; the ehest wide, deep and capacious; c.o tail brond and fac towards the top, but thin towards the lower part. which it alwess be, when the animal is small boned; the lonicr part of the thighsmall; the legs short, strayght, ciesn, and fine boned, though not 30 fine $2 s$ to indicate delcacy of constitution; the flosh, rich and mellow to the feel; the akin of a rich and silk y appearance; the couintenance calta and placed, denongg tho cyennexs of temper, cescnial to quick fecding and a dispositron to get fat.
Every breed of animals which has, uhrough a
overfed, requires similar feeding; and tho of spring of such anmals require and can dugest moro food than othera, who have lived uponlitte.
All growing ammals, meluding mankund, vught to be sufficienty woll fed to preserve benlua and strength, but never to be stmulated by excess of fuod. The children of parents, liowover, who have, through many generations, been well fed. would persis if given no more food than would vo sufficiont for an Inah or Jlighland Seot's peasant child

Tho chief qualities sought for in cattle are tho tendency to fatten on hatle fuod, and thas to yied abundance of rich nulh. Tho tondency to fatien is andicated claefly by the capacity of the clest Animals of all spectes, says Mr. Kmght, all wher quatities beng equal, are, I thank, capable of labour aid privation, and capable of fattaturs. nearly in prupurtion, asdictr chests are capacious but the halits of ancestry will operate very paw. crfully.
It is the width and depth of frame, says Mr. Berry, which confers weight, and not the merc circumstance of great heyght. Winle equally greas, if not greater wetght, can bo obtamed withshorter leggedanmals, they are, independent. ly of other recommendations, gencrally fonad to possess bother constitutions and greater propenas ty to faten.
Mr. Kright saye, the constitutional disposition tu furm fat, is ceriamy hosthe to the dasposition to give mikg. Cows whech give hute milk often present large udders, whech contan much solid matter; and, to inexperienced eyes, a wo yens old Herefond cow wumld give a promise of much milk, where yery little sould be given. A nar. row furchaca, and a long face, nearly of tho same width from end to end, as in the Aldenney cow, cerrainly indicates much moro disposittan to give milk than the contrary forn, which I have pointed out as indicative of a dasposition to tatien.
Fat animals are more generally those of the north, where cold dimimshes sensiutity. Fia indeed, nyjears to be the means whech natury very extensively employs to lawer sensibility by merpusituon between the skin and the central parts of the nerious ststen. Fat animalf, accordngly, have not only less sensibility and itri. tabstity uf the skin, but of the osgaps of sense generolly. Thaner anmals, on the consrary, are mure generally those of the sumb), and lave moric ecute seasilithy and exfrumste sersistion.

In reply to this observation, Mr. Knigh sayct Ido not doubt but you are right respecting tha use of tat in cold chanates; all slecpiug animato hrough winter, fo to eleep in a fatted state. do nut thath that breeds of cows, which govo much neh milk, are sery hardy. Tho Alderney cuws ate what the Herufurdshure farmer caits very nesh, that is, very incopable of bearno harishing of any kind, and paracularly cold, con. sequenly of greater sensblinty.
Cows which gire much milk have the power of eating and digesting much food, and they re. quire, whilst they give much mulk, a very abuadant and good pesture. The breeds of cows which givo tess mill, and present greater disposi, dion to become fat, are gagerally lese razh; and will fatten upon less food. The infuence of the felings is very considerable. I have obserred that whenever a yoang ficreford cow dioliked be. ing milked by the dairymaid, she soon ceised to give mill; and I do not doubt that, in all casst, if the calves wera twice every day permitted to suck after the dairymaid had.-nished her labour, the cows would longer continue to give milk and in larger quantity.
This tends to. corroborate what has been said as to grcater sensibility being favourable to milking.
If this led only todistinction of these two kinde as to milling, namely,-that of fatness and thio nesa, and that of smaller and larger organs of sense and greater or less sensibility, at would still bo valuable, as showng, cither at a later or an easher period, what we may expect. 10 thus int poriant panyculat. But porhape its uuhay may extend siull further, and cnable as to improre the race.
It may form a basis for our determining whelher, in endeavouring to improve a breed, fatteners may moet casily slso becomo pillects. to some extent; or milkers may, to a simana extent, become fatteners 3 and what sre the cir cumastances which Tould mont favour such par-

Indeed from these principles I would conc!udo that an nnimal fattening in the north, would bo cumn a better milker in the surth, where a mure peman temperature would mader fit les neces. sarv, would inerense censibility, and would cherith the secretion of mitk, bu inimately conneeted with that excitement of the productive functions which wannor climates produco.
As theso two desirabie gualuties are both dependent upon ono syatem, and as thoy are opprosed to each othor, (for exress of one zecre. non is always more or less at the cost of the other,) they will be most ensily obtained by being distictly sought for, and theanimal of dimin. tshed sensibility will most casily Eatten, while the animal of increased seneibility will mos: readily yield milk.

These views are comfirmed by tho conduct of the London dairy-men. White they acknowicdge that the Aldenegs yield the best milk, hey kerf nono of them, whatever they may pretend, berause these animals are peculiarly delseate, and more especially because they cattnot, after ho:ng used ned milkers, bo fattened tur the butcisers. The York and Durham cows sun them best.
In certai: constitulions, however, and, to a certarn extent, there is a compatibility between fattening and milking

Mr. Knisht says, the diapocition to give much and rich misk, and to faten rapidly, are to some exrent at variance with each olher; but 1 have sren cascs in which cows which have given a yreat deal of rich milk, hare given birth is most excellent oxen, the cows themelves, howvever, always continuing small and thin whilst giving milk.
1 very conflementy believe in the possibilite of obtaining a breed of cows which would afford fine $\mathrm{oxen}_{\text {, }}$ and would themselves faten well; fut, as great milkets require much more food than others, the firmer who rears oxen, docs not think much, perhnge not enough, about mik, and is it the habit (which is certainly wrong; of bredding his bulls from cows which have become his best, owing only to their having been ball mitiers.

In the selection of bulix, besides ateendi.g to those propertucs whirh belong to the arale, sve ought to bo carefulatso, har they are drarended from a biced of guod nilken, se bernt if wo Wish tho fatare swok to joxscis this pruperty. Curmers' Calinet.

## TOBACCO.

Ono of tho great staple productions of this country, partucularly of the soulticra and western part, is tobaceo; and gecat as as tho amount nuw produced, it is evident that if the anarket abroad was not so fencred and elogged with vexatious re stricuons, and such enornous dutses, a far greater quanuity mught be readily grown. In Europe, it scems to be a favourite object for excessive taxa tionin nearly owery gorcrument: and at he great sneuting of tobacco planters last May, it was shown from authentic documents, that on an export of 100,000 hogsheads, valued bere at seven millions of dollars, a duty was paid by the consumers in the various countries of Europe, of more than thirty millions of dollars. As a matter of interest to many of our readers, we copy, or condense, from the report of that body, the amount of tobacco exported to tho European countrics, respectivels, or the most prommont ones:-

| Countrice. | Export or Tobaceo in Hilde | tax pers. |
| :---: | :---: | :---: |
| Russia, | .... 358 |  |
| olland. | ....3,300 | 13 cts |
| , lgiump | . 6,000. | . 24 |
| - Jreat Britai | ..28,732 | . 722 |
| France.... | ..12,000 |  |
| צpain, ..... | ..5,700 |  |
| ortugal, | ... 363 |  |
| taluan State | .. 2,000 |  |
| zustria,..... | ...4,000 |  |

The remainder of the 100,000 hogsheads is dis. ibuted through tho German states, Sardinia, ungary, dic. dec. We have been nasblo to as. crtain the precine duties paid in all cases, bat the normona ratos of thoeo ascortained, and tho fact at the tobacco import is in most of the countries -f Europe fanmed out for a stipulated sum, réndere iccriain that while none are bclow what is here amed, sorne of the higheet much exceed the al. 100 prohibitory imponts of Groet Britain. Atiaty
of 800 per cent., such as England imposes on our tobacco, is an anomaly in the listory of trade; and wh.eh, under all circumatances, may bodeemed positively unjuet. Whoat they can grow to any extent, and we must expect them to protect their own agneulturc. Tobacco they cannot grow ; it is an artucle of almost universal consumption ; and their scale of duties is such as to be felt, not only by every consumer of tobacco in the British empire but on the sources of Green River or the Miami Fice trado is a good thing; but wo have somo mis givings about the propiriety of that trade in which all the freodom is on one sido.
The culture of tobacco is every year extending itself in the Western States, and promises 10 become a most iouportant articio of export fom the rich distrints north and south of the Uhio. That tobacco can be grown in Indiana Ohw, Kentucky, and Tennewee, with a profit greater than that attending the culturo of whoat and corn, sooms certnin; and wo doubt not that us tho cultivation progrceses, and the better methods of curing are adopted, the tobacco of the new slates will rival in quslity and celobrity that of the old Tho plants on new land grow more luxuriantiy than on sots cul tivated for any cunsiderable timo; but experience proves that the quality is not so fine. The best tobacco in any country, is grown on lands in goud coudiliun, but not extravagantly rich, or lugh y manured.-Aldany Cultivator.

## ROADS

goon roans and good markets Cheer the WEARY FABMER ON HS WAY.

As the Farmer is understood to be devoted to every thing that has relation to the interests of the farmer, I take the liberty of forwarding a few lines on the subject of roads and road-mendi:g; than which, there are few subjects which have a more intimate connection with the interests of an agricultural com munity.

Many of our roads have, from various causes, been very injudiciously located, but as they are now generally the division lines of contiguots farms, and the habits of our people have become conformed to them, it would not be an easy matter materially to change their position; so that we must submit to what we cannot easily remedy; and continue to travel over steep bills, when it sould be mucle casier to go round them, or to approncil their susumits at 2 less angle by oblique direction. In the selection of juries to lay out new roads, it would be well for the judges of our courts to display their powers of discrimination, in selecting the most inteligent and enlightened men to be found in the country; and it would not be amiss, if those thus delegated to perform such an important trust in which not only the present generation, but posterity will have an interest, should be endowed with a full proportion of moral courage, 80 that they may not be swayed by local or individual pre dilections to the prejudice of the interests of the community at large.

After roads have been laid out, confirmed by the court, and opened in obedience to, and according to law, the public are the undoubted proprictors of them, and have the right through their proper officers of the exclusive jurisdiction and care of them, to the full wideh and leagth they have been so laid out. Now it must be obvious to every person who moves to and fro in our county, (Montgomery), that in namerous cases our highways are much straightened and contracted; and in some instances full one-third of the public right is discovered to be over the fence within the inclosure of tome individual. who appears to have more regard to the indulgence of his own selfish propensities than to the interest or conrenience of the publlc.

The benefit derived by thase encroachments is very questionable, and.it is believed
that in mos: cases of the kind, the lons of reputation is more than a countorpoise for it; for in every case those who knowingly interfere with, obstruct, or deprive others of thear just rights, as cortainly mar and part with a portion, or the whole of their reputa. tion. This is a subjoct that requires the at tention of grand juries, and if aupervisors will still contimue to neglect their duties after having pledged themselves for their true and faithful performance, it would seem just and reasonable that an example should bo made, by the infliction of adeq̧uate punishmont by the proper authority. Another delinquency, less common, but more dangerous exists in some situations, in permitting individuals to occupy the public highway for quarrying stone, or other purposes, without the shadow of rightful pretext for 80 doing, and to the unanifest injury and danger of persons travelling a recularly laid out highway. One instance of this kind has been very slowly, but regularly progressing for many years in apparent disregard of the public safety and convenience, and so far as the writer has knowledge, without the interference of the proper officers whose duty it is to prevent such injurious encroachments.
In conclusion, I shall simply call attention to the waut of intelligence and practical skill which is often noticed in the, so called, repairs of roads; in many cases the labours of supervisors seem to be sedulonsly devoted to making them worse instead of better, and this arises in most cases evidently from want of skill and julgment, rather than from evil design, and the only remedy that can be applied in such casss is to exercise moto ca:e in the selection of supervisors. The jersons best qualified for this office will not serve; they think there is more profit in minding their own business; consequently the only alternative is to sclect from the second best class, who sometines get along pretty well, but it is seldom that lie funds raised for repairmg roads aro as judiciously expended as they moght and ourght to beThe subject of making and repairing roads is one of great intercst, and if an able inand, who has the requisite knowledge, would furnish for publication in the Caluinet suitablo instructions on it, great grood to the public might resul: from it. It is lioped that in the discussion of various matters interesting to farmers, thas may not escaje the atienion it so mauifestly requres

Mosigomery

- Farmer's Cabinct.


## AGRICULTLRAL CAPITAL.

What, in the hands of the farmer, constitutes capital, is an important query? With the merchant, cash is the capital, with the land-owner, land is the capital, and-with the farmer, cash; land, and stock, is usually con:sidered the capital But there are many other items that enter into the capital of the farmer generally ovenlooked, sưch as implemente, manures, and the most important of all, labour. Capital may be productive or non-productive. A million of gold and silver locked in a strong box, or a thousand acres of uncultivated fand, may be capital, but 80 long as the property remains in this state it produces nothing, and the owner may be actually growing poorer, instead of becoming richer. Increase of wealth cioss not depend on the quantity of capital so much as in the use made of it: and in nothing is this more observable than in farming. There is many a man who has commenced his career as a farmer, with fifty acres of land; on this he annualiy expended in manure, labour, tuci, twenty per cont, and the produce was perhaps forty per cent. Encouraged by this success, he added to his farm another fifty acres, but his expenditure in capital is not promortionally increased, and the profits are lessencd in proportion. Still he has not land
enough, and he keeps purchasing land, whale for a two-storicd house. A barn which I he adds littlo or nothing to lus active capttal, and the consequence is, whilo on fitty acres of land, the realized forty per cent., on five hundred acres de realizes nothing. Ite has converted hus protactive into uiproliccteve capital, and from his five hundred acros he does not clear as much as ho did from his fifty acres, or perhaps he actually falls behand. There is nothug more true than that inordinate deare for large farms has been Whe run of thonsands. It is truo that a large farin may be made as productive as a smaill one, but there inust be the sane profrortion of capital in manure, labour, sec., put upon it, a thing rarely or noter done.I'hat part of the farm upun which most capital is expended is tho garden, and this is clearly the most productive and prufitatile, and so with a suall farm when compared with a large one. Let no one therefore desire to possess more land, or undertake the cu'tivation of more acres than he has capital to manage well. If he does, he will find he is rapudly sinking what little productive capital ho possesses, and may become a poor man with the ineans of exhaustless wealth in has hainds.-Albany Cullivalnr.

## (Concluled from First Page).

shire and Hampshire buidings, from whech the hint vas borrowed, are called cob-tcills, but they are not exactly rased in the manner we now practice and recommend.
I have said, sir, that these buildings may be constructed with any description of clay, but I think the strong blue clay the best.It need not however be so pure and l:se from stones as the brick-maker requires, (as it is well known that the least muxture of jimestone spoils earth for bricks intended to be burnt). On the contrary, for our purpose, I believe that the clay is all the better for containing a large proportion of small stones or gravel, or that the same mignt judiciousby be mixed with it, if convenient, and that, in that case, no straw would be required. The small stones ar gravel would, by themselves, be quite sufficient to give the requisite solidity and binding mature to the material, and showng here and there on the surface, they would give ans admirable hold to the plaster which is subsequently to be applied. I believe that the clay and sinall stones well hneaded together, do in the course of time grow into a soldd mass, shough I must leave to the learned to explain how that takes place. I remember well, when I used, many years since, to be sometimes at Muddiford in Hampshire, a place on the sea coast, I observed how small chunks of blue clay, from the under soil of the surrounding land, when they came by any accident in the way of the tide, pused to be carried backivards and forwards py the ebbing and flowing of the sea, rolling up with them the sand and small pebbles, till they grew to be frequently as big
es a flour barrel, and then, if cast by a etorm on the dry land, they yould lie there and harden into the solidity of a rock, and it was from a piece of them that the shoemakers used to make therr lap-stones.This was the school, I used to think, where the builders of that ccuntry, many, many generations before, first learnt to make their cob-walls; for there are buildings of that sort at Cbrist Church, close by, which are said to be six hundred years old.
If the clay be pure, and gravel or small stones not procurable, stray must be used. If find that it takes about one cwt . of straw to one hundred bricks, of the dimensions given in your last, which were very correctly stated.
You were about right also as to the expensee, the waills being supposed one foot in thictness, which is substantial enough
have built has the walls eighteen inches thick. It need hardly be remarked that the cust will vary according to the price of la. bour and other loosl circumstances.

I shall add such remarks as at present occtir to ine respecting the mode of proceediug. $A$ box or mould is to be prepared of tho dimensions you state, is also one for lovilled bricks for archos \&c. We temper the clay by the aid of horses. A place is scouped out about fifteen inches deej, twen-ty-five fect long, and half that in widthInto this the clay and water is thrown, and a boy mounted on one horse and leading another, walks them backwards and forwards until cvery part is thoroughly kneaded, another person, the mann while, throwoug in the straw in very anall quatities at a time. Somotimes a circular ditch is made, for a horse to co round in, atter the fashion of a cidor milif. You may save labour in obtaining the clay by ploughing it up on a spot whence you lntend taking it. The bricks are set to dry in loose or hollow walls, similar to those used in common brick yards. The foundation for a wall of this doscription should be laid with stone and mortar, and rased a few inches above the level of the ground. The brieks are to be laid in the same material of which they were made, instead of in mortar. And here it will be pioper to point out the advantage of makng these equares or bricks, over the older fashion of cob-walls. In constructing the latter, it is necessary to wait for each successive layer of the matorial to dry, before nother can safely be added. Jest the wall should subside uniqually, and out of form. and the lengith of this delay depends on the stato of the weather. With the bricks, the artificer proceeds uninterruptedly, and with much greater security against any such accudent, and his building may be completed with all that celerity 80 generally desired by mhabitants of America. When the walls ate quite dry, the last finish is to be given them by a gool coat of plaster, made of lime and sand, and not of clay, though this is somelimes done. You will then have a dwelling of a most durable description, and as handsome as you dhoose to mako it. It will be infinatoly superior to a frame house, being, both warm in winter and cool in summer-so much so indeed that underground cellare, for tho purpose of preserving artacles from frost and heat, may be altogether dispensed with; and most people in thes neighbourhood find their underground cellars to be as a great nuisance, and a cause of damp and vermin.
If I were to add that this description of house is as good as one of brick or stone, many would think it was saying a great deal, consideriag how cheap it is in comparison. But my firm opinion is, that it is very superor in healthiness and comfort to the best brick houses, and to most sorts of stone ones. Every onc knows how very porous burnt bricks are, and what a quantity of water each one will drink up when plunged into it fresh from the kiln. From this it happens that the damp is continually making its way from the outsjde inwards. Unburnt clay, on the contrary, has nothing of this imperfection, and I could give the most incredulous person a coniincing $p$ oof of this, by oxhibit. ing to hum the opposite condition of the paper on two walls in my own house, one built of each material.

But it is timo to draw this communjcation to a close, which I shall do with wishing success to your useful labours, and hoping that ?our paper may soon rical and surpass any of the kind on thes Contunent.

I am, Sir, yours,

## TIIOS. SIIEPPARD.

Shippard's Tavern,
Yonge Street? 26th Ja.t’y, 1812.

Emata in oce Last-P'age 16, in Mir. Severn's Communication, five lines trom the bottom, for 177 lbs. read 77 lbs.

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| :---: | :---: | :---: | :---: |
| Barloy, per do. |  | 6 a 2 | 8 |
| Oats, per do. .... |  | 6 a 1 | 8 |
| Flour, Farmer's, per bar | rcl . | $0 \quad 297$ | 6 |
| Do. Miller'o, warmated | d perdo. 30 | 0 a 0 | 0 |
| Do. Superfine, | per do. 35 | $0 \quad a \quad 0$ | 0 |
| Oatmeal, warranted, | perdo. 0 | 0 a 25 | 0 |
| Beet, per cwt.. | ......... 15 | $\begin{array}{llll}0 & a & 17\end{array}$ | 6 |
| Do. on Foot. |  | $0 \quad 17$ | 6 |
| Mution, per lb. |  | 23 a 0 | 3 |
| Pork, prr 100 |  | $6 \quad 17$ | 6 |
| Cicese, prica. | . 2 | $11 \times 2$ | 6 |
| 'Turkics, do. | 3 | 0 a 5 | 3 |
| Fowls, per pa |  | $3 \quad a \quad 1$ | 6 |
| Ducks, per pai | I | $4 a 2$ | 0 |
| Espme perdozen. |  | 7ta 0 | 10 |
| Bitter, in tubs, per |  | $6^{2} a<$ | 7 |
| Do. in rolls, per |  | 73 a 0 | 9. |
| Putatocs, per busliel. |  | $0_{0} a^{1}$ | 3 |
| liav, perton.. |  | $0 \quad 180$ | 0 : |

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