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# THE BRITISH AMERICAN <br> CUHTIVATOIR. 



Vol. 1.
TORONTO, NOVEMBER, 1842 .


## THECUTTIV思TOR

"Agriculture is the great art which every government aught to protect, every proprictor of tands to practice. ind every inquatersulu natue mpiove. - Dr.Johnson

## Toionto, November, 1842.

In' a late debate in the Legislative Council on the "Duty on Wheat Question," the Hon"bla Mr. DeBlaquiere is reported to have said, "He believed the interests of the Western Trade did not.yiald ceven to those of agriculture." If such ure the wiows entertained by the members of the Legislature who we thought wero the must farourably disposed to our agriculture, we may indeed despair of any effectual encouragement being afforded to Canadian industry by wur Lopislatinte. It is well understond that agriculure is the only means of subsistance for ninc-tenths of bur population, and notwithstanding dhas fact, it $i^{s}$ considered by our legislators to be second in importance to the carrying trado of the produce of a foreign state. We fear it is in vain to expect any particular attention to be given to dur interests, so long as they are regarded as sccond inimportance to every other interests in the country. There is not a merchant or a tradesman m Canada who are not protected in their business by duties on foreign manufactures, \&c. Evea the learned professions are protected so far that no foregner can practice here without a license. With what consistency then, can those classes whose interests have every reasonable protection, oppose the granting of prusection to the anterest. of agriculture? Every shallung, we may safely eny, that is expended by agroculurists, is patd to the other classes of this communty; but it these other classes mect in our markets with a foreign agricultural produce, they purchase it in preference to that which is the produce of Canada, th the most trifling advantage can be ganced elther in price or qualizy. We do not condemn this proceeding: it is perfectly far under the exsung state of the laws. Wo wish, however, that these laws should be altered so as to give equat protec. tion to the intereste of all classes. Let duties be altogether abulishod, and we shall not ask for any moro fa vour than others will have. Itis very weil for Iegislators and others to say that Cana: dian farmers can compete with thoso of the United States. We deny, however, that there is any frir competition existing at present between the farmers of both countries when disposing of therr produce in the Canadian markets. We have in former numbers of this Periodical ondenvoured taction whatein this comporimon is unogat.-

The farmer of the United States sells his producte in our markets as free fium all duty and charges as our Canadiar farmers, and may take home the full amount of the proceeds in cash to be expend. ed in promoting the industry andiiniprovement of his own cuuntry. The Canadian farmer on the contrary, cannot go the United States with the proceeds of what ine sells in our markets, and purchase in that country what he might requiro or find profitable, and bung them into the codn, try wathout paying a duty upoñ them. No. -3 We must purchase all we require here, and all that we do purchase has puid botinBritish and Colonial rovenue, darect and indirect, to the amount, perhaps, of one-third of their entire value. Under these ctrcumstances, can any man show that the Canadian farmer can farly and equally compete with the foreign farmer in our markets? There are many other carcumstances which minhe the competition still more unequal and against the Canadian farmer. If this were a country that did not possess a good soil and favourable climate for agneulture, it would be wrong to em. play the great bull, of the peuple in that business. They should rather employ themselves in somo other way, in the production of articles which they could exchange for food. But when wo aro certain that we do possess a cood soil and favourable climate for agriculturé, on what principla; :s at that we do not offir the most decided encouragement to our agriculture, that it may be abundantly productive in corn, catle, purk, butter, chreser, hemp, and flax? In what other way could our population be enployed that they could acquire thear subsistance? None certamily thet we are acquainted wilh. We thercfore humbly, conceive, that the interests of agriculture are of importance ahose all other interests in this ccun. try, und should be so regarded by the Represen. tathes of thes populatuon, in any question of the interests of separate classes that nould come under discussion in our Legidntive Asserobly:The population of every country should be em. ployed in that way that wall prodence themathe largest quantity of the conforts and conveniencies of existence, rither dirctly from their labour, or by exchanging the produce of their lathour for the produce of other. countrics. Unless in agriculture how could the iuhabutants of Canada cm . ploy themenives to acquire ine means of obtanang the smallest possible amount of subsistance ?This conntry must be unsuitable for the residence of man, if unsutable for agnculture! If it be admited that it is suitable for agraculare, can any ono doubt that four arres of cultinned land of good quality-which we have ot present for rach inhabitant, inen, "umen, and chidrenwould not he ahle to yield them a sufficient agracultural produce for their subsistance on every way? In the British Isles there is not more than half that quantity ot culusated land for each in. habitant, a id we believe they never required, in any one yrar, to impart provicions for one month's consumption for tite whole population. Thi principle we advocate $t s$, that we should do all that is possible to encoarage the improvement, and promote the proeprity of the laud we live in. in preference to foreign countries. Any man acquainted with Canada must be convinced that there is areaz necessity for improvenient in our system of agriculture. Wo sahe upon us to sing, that without some protection and encouragement this necessing inprovementit will not bo eflected: hecanse there is no muiurement 10 expend capntal in the inprovement or land and $510 \%$, 80 long as ;he proczach from thom will notromunera:".-

The whole matter is perfectly plaunadeseasy to understand. If farming remunerated for cappul, skill, and labour, more of all this would be at tracted to that husiness, and we would súbot' tind ii become a tashionable protesswn, Ihut fooleng as the returns from ogriculture are so inadggugte as at present, in consequence of the competition of forcign produce, raised under diffeterterand more favourable circumstances then ofur's jo;no man that can avoid it will invest or emplay capi. tal in agriculture. This state of things will act as effremally to check agricutataliminoxtment, as if there was a positive law.ngainst imporve. ment. Remunerating prices will be the papgt effectual encourngement to the progress of im. provemen.. We are not advocates for hing prices. Moderate prices and certain thatreels will aluays be the most profitable tor, farmere, Moderate prices, however, are, those that.wguld tairly remunerate for copital itrivested in lond, stuck, impleqients, seed, for skill tud labdurr. ${ }^{391} 1$ low prices were the result of abundant poddic. tion in our own country, ind not produced, 4 y imporition from a foreign country, we would nut compian. But citremelydow prices, resulf. ing from the importation of foreign produce posin unlithited extent, and without any duties beins imposed, we look tiparn as ungualiffed injustico towarda the producing clusses of Canada: Wo have, under such a state of the law, 10 tertainty of market that would encourage us ta praduen. because at any time our marketsmay be filled up wala a furegg production. It'is very different with as from what it is, in Empland: Mr that country there are cities, towns, ant cillages ineves ry drection, ant both them and the councryare filled with popuifation, and an minense guanfity, of fuod as reguredefor them all. Ifere wétinvo few towns and villages and a very thin popula. thon, with boundless extent of excellent lnnd to provide food for them; and with-all these advantages our legishators think tt expedient that wo should be supplicd in part by a foreign country wilh food! We know several farmersin-thid neighbourhood who stall fed cattle last winter, and when they were fit for salem spring the mariket was filled with foreign catile, so that otrifar. mers lost all the winter-feeding. There is $80^{\prime}$ lit: tle inducement to fatten ratule on. grass or in. hhe, stall, that luyy is now selhng in the Montrealmarket at prices that will searcely temuncrato the expense of cutung, curing, and bininging to market, without having one shilling per acretani the farmer for his best land. Are not the lay., bourers at our public works and troops in our. garrisons partly fed on foreign produce, and hence the large expenditure of English,copitalic will parily go to estich a foreign couptry mstead of our own. Eien our breweries rind distillenes purchase lurgely af the infenor speciés of foreignt " grain, that could be produced to anysextentin in Camada; and though beer and whishey made hero are protected by dutics. We say withopt lesmation, that thes would not be eo tit reasomable encouragement had been given fot someycapa*
 we should feel ti our duty to occupy so trequent. ly he columns of this papef with our complaints when they should more appropriately suggest
 As we before observed, the best and most effecthal encouragement that can be given to agricul. fural improvement, will he cortan markets and remunerating prices, and whout these wo are well aware, that-all we can sity or write in suk. gesting or rorommendation ofomprovement wift be unavailing, It is from has convicuonithat.wit so constánily advocate agricilural protectiom as the cols possible meane of producing sie mit. prowement and preppenty of sgnculate in thit co.mity, circumbtancead as iris.

## TO THE SUBSCRIBERS OF Tho Britinh American Caltivator

Tres in the eleventh monthly number that has been pablished of this Periodical since its com. -nencement in January lant, and it is for the Subecribers to judge how far we have fulfilled

- our engagement to them. It was certainly our earneat desire to make Txs Cultivator useful and intereging, but it will be for others to show by their future support and encouragement, if we have been successful in our endeavours. The mont certain proof of our having given satiafac. ton will be a greally increased number of 'Sub. ecribery for the ensuing year. If we have not sivea the best practical information to farmers wis are not altogether to blame. We offered the "eolumas of Tas Colrivaros to the communica"tions of any farmer who might desire to instruct or enlighten his brother.farmers on the scienco or practice of agriculture, or any subject connectad with it improvement or prosperity. If they heve not come firward, but raher concealed i. wheir light and knowledge for their individual Gonefit, it in not our fault. We again promise we "chall do all in our power to submit the best informatiou we can collect on the science and pracriee of husbandry, and always advocate in the hat manner we are capable, the interests of agsienlture. This publication will be the proper medium for communicating the wants and wishes of Cinadian farmers, and we respectfully solicit forit the unadimous support of our agriculturists, and of all those who would wish to advance the improyement and prosperity of agricalture. If Canadian farmers will not support one publicaron that in exclusively devoted to their minterests, at tho anmul cout of only One Dollar, ws must auppone them careless about what should interest thens, or that they consider this publication not enlculated to forward their interests, or render bieme any acrvice or entertaiument whateyer.
$\because$


## ACKNOWLEDGMENTS.

Whe have received from our regpected Corres pordeni P. L, Sixamosds, Esqr., of London, a raluable Eseay on the Plantugg and Management al Tivaber and Ornamental Trees, from which we'propose to make selections occasonally.Thiough we have abundant foresta in this coun. try, we think, neverthelope, that on almost every furt that iseleared, some trees should be plant. adoccuionally. It is not alwaye possible in cleaning forestiand, to bave trees exactly where chey would be most useful and ornamental, and shay are aloo repỳ subject to be blown down or deciny when theforest is cut down around them. Wa woeld, therefore, strongly recounmend the plañing of trees on cleared farma as opportunity woilid serve. The country is greatly injured and disfigured by the total destruction of all trees, and in yery many tarms scarcely a tree has been iefl. Treess are extremelyuseful az shade to animalh, and where lends are destitute of the phade which they afford, we believe that animals pas. cured ppon them are much more liable to disease andidench in our bot aummers.
WWitho received from Mr. Simmonde, a List
 Exidend, and the Raleo mod Regulations of the Farifit end General Fire and Lafe Insurance

Loan and Annuity Intitution of London. From the latter we make the following celcetion:-
"Fire Department.-The charge for inauring ngainst fire is so minall as to adnit of no excugo for persons omising to avail themselves of the protection. The party who experiencestoss by firo for want of being insured, whilst it is in his power to protect Narning Slock to the amount of one thousand pounds for 179. कd., and of com. mon insurance one thousand pounds for $5.2 .5 \circ$. -including duty-desorves no compasqion. In order to carry out effectually tho objects. of the Legislaturo in repealing the duties on Forming Stock and to induce farmers generally to insure, a charge of only 18. 31. per cent. with the Aver. age Clause, and 1s. 9d. withous the Average Chause, is made?"
The charge for Thatched Farm Buildings is only 25.6 d . per cent., and lossces, by fire from lightaing is made good.
We give this selection to show the great and unaccountable difference between the amount of insurauce paid here and in England. Farming Stock and Buildings in this country are charged 95s. per celi, or twenty.fold ns much as is paid in England, and we do not thank the risk no great here as in that country. In towns the risk may be greater here, in consequence of the houses covercd with wood, standing clase together, they may be more liable to catch fire from each other, but in the country farm buildings stand alone, and if one farmer's place should take fire, there is no danger that it will fire any other building. We would strongly urge farmers to establish such an Instutution as that which the English farmers have established for Fire and Life Insurance.
Wo have received a work on the Growth, Qualities, and Uses of the Acacia Tree, by Wri. Withers of Noriolk, England. This book con. tuins most ueeful information in reference to the Acacia, or what is better known to us as the Locust Tree. This tree grows well in Canada, and if planted and attended to accordiug to the instrucions of Mr. Wethers, it might be profitably grown on almost every farm. Its growth is very rapid, and it is both a useful and ornamental uree. We recommend. Mr. Withers book to any farmer who would be disposed to plant and cul. uyate the Acacia, or Locust 'Tree, or any other trees. The success of planting depends upon the mamer the work is executed, the natural quality and preparation of the soil, and the sub. sequent pruning and management of the trecs. Mr. Withera Book, and Mr. Sumands Essay, will afford the very best information on all these. points. We beg to offer our acknowledgments to the later genternan in particular for the fa. yours we have received from him, and for the lively interest he manifestly feels in the mprovament and prosperity of Canadian apriculture,

According to a statement which appeared in one of our last file of Engliah papers, the price of four pound of bread made ot the best wheaten flour, should be at the rate of one penny for every alilling a busbel that would be paid for wheat. Hence if a bushel of wheat sold for 5s., | the flour pound Joarishould be sold for 5 d., and that this price should leave the baker a handsome profit. By the same rule, the 61 lb . loaf or brown bread should bo sold here.at 72 1 d., when wheat 13 an5s. the bushel.

NEW.YORK SIATE AGRICULTURAL socIETX.

We reccired an invitation to the Catte show and Fair of the New.York State Agriculturol Society, that was held at the city of Albany on the four last daye of Sepiember, and nhoutd havo most glady a vailad ourcelves of the anvitacion if we had not been prevented by circimatabces, We are periectly sensible how much wo would have been gratified had we been able to attend; and with or without an invitation we hop ot $^{\text {w }}$ we shall be at the next Catle Show and Fair of the New-York State Agricultural Bociety. Agricul. curiste of oll combtriet and natione ahould at all times be happy to meet on the mont cordial and friendily terms, and be ready to impart informa. tion on all subjects connected with the cultiva. tion of the soil, and the breeding and manage. ment of domestic animals, for the benchit off the human race. We may be advocaho for gri. cullural protection, but in this we only follow. the example of an elder brother of the samotanily, who 'should be wiser than we are. We conceivo that if he has found protection neceseary for:his prosperity, it must be more necemary for our. selves who are younger, and lese capable oq suc. cessful sompetition with him. Thene muttere, however, should never interrupt the friendly re. lations that should always exist between the ag. riculturists of the United States and ot, Canada; and when great annual Catue Shows take place oh either side of our boundaries, that are, no longer jn dispute, it wculd be highly conduciyo to agricultural improvement and to to the easa, blishment of general good fceling, that the farmers of boh countrics ahould mect:and discum subjects connected with agriculture at thone. placas, to exchange ideas, and discuss in a friend: ly manner all subjects connected with the $\mathrm{im}_{\text {. }}$ provement of agriculture. The impruvement. of agriculture all over the world, will have a very. great influence on the welfare and happinese of the human race, and, thercfore, to promore thin improvement it should be an object of solicitude, with the wise and good of all countries, to con.; nect them together by the most commendable of, all tieg-the desire to promote the genoral, goods,

PROTECTION,
Wx suppose that nothing will be done this Exew sion of the Legislature for the protection of Can, adian abiciculure, except the imponition, of a small dutyou wheat imported inso this country from the Unitcd States, We' hàre absurances, however, that agricultaral protection will be taken into consideration immediately after the: commencement of the next Session of the Legiglature. Perhaps it will be best that sometime for reflection should be given to our new Miniz. ry, to prepare measures for the consideration of. the Provincial Parliament. Hasty legislation is not siways the best, parricularly in mattery of this nature. The farmere of Canida, will not complain if theirintereste are attended to in the nexisemion. The longer their intereste will be under.consideration, tite more péfoct they will expect the meanures to be that will be adopted to forwarid had mecuro these interceta. Before the next Secesion, there will be ample time to underatend perfectly what in necemary and ext...
pedient to be done. We mhall most anxiously Wait the resull. It is not a matter whero only on individual or stitall clasés are interested, but bod that-will have an influence for good or fot vil on mintertenclis of med inthabitants of Canada; , thed give them ericoirdgement to improive and inompor or editerininithem to poverty.

## itant

## $\because$ "ENOLSIA AGRICULTURE.

## "romi pir owncoprempondemt.

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## 4il

Uncil widin the lust fow dnys we have axperienced a continuation of brilliant weather Tind it ia calculated that the prescnisuthlizer has been the hoterest and loygest we fave oxplerienc̈ed 'in' 'thia' country for the last, 34 yearm' 'This find weather has been very favqurable to harvest operitiontr, Which are in most districts nearly conckiutid: "Thí crop notwilhstandipg de deapond. ing cricr or a feiw troakers may be considered a fuir average onte', still it is quite clear that we chall require'a latge quablity of foreign corn for home consuntition, and the arrivale continue to he contensive: The transactions however are limityd, the millers only purchasing for their im. medinte wants. Withir the last day or tivo we have had ronié very heavy falls of rain.
The Fermers' Mä̌azins for Seplember Inst. publinhed, contains the first part of a very interesting nairitive of an agriculitural tour in England and: Soolland int the year 18ino, by Cuunt Conrad DeGourcy tradilatid-from the French. The Coual.who in en extensive und'experienced agri-culturist-vimited many of our leading àgriculturintry and biar.report of the information obtuinéd from ithem,ap tortheir mode of farming; breeding; ic., and his own, observahons thereon will'be Sound exceedingly iatpresting. As an instance of his good sense and impariality I.cite the fol. lowing papase :-
Fithnk that for the irnprovement of our focks in rance and of. our cattle genèrally, our rich farpare having sons whom they mean to britg bpto a eqgiculturi . ahould baive them taight, instend of the clemics,' Englith, a lititle mechanics, chgniptry, and na uural-. history, drawingi book, ketping, terc. $;$, skomld place in their hands' the heses warke on ágriculture, and the best agricul. zural peringdicale; espyoially those that are pub. liahed in England, and should instruct them well in Froinch agrieutte e; and then send them to upond two orithifeé years with the best English broodere and'Scotch' famers: Iff à number of young members went thirough thim trainingig; they would soon do something tawards altering she provethe eofidition of Yrench agriculiure, which is very: bad inittrree-fourthis of ihe King dom, espezally at compared with that of Eniglandid Scol. land, and Germing. W.e have excellent farmeru in Minäders and in some other parts of Fraoce, butctiey monet dreatil of itiproving their breed of gatue."
While on the sumjeot of publicitions' 1 maly sal4, that a winty importantiandinteresting work
 atejo thes judur beon "publistied on thie manage ment or rather the mis-managericiont of woads,
 Weatiof Collinghatej, . Newirk, Nots; auitior
 Qupyopit, Hie ungen with much foras that.att
 ke in of our bheutiful country would yield to pro: rietora a lerge incrase of rovenuc; and create new and fruiful sourco of employment: for the Alantione poos.

The Council of the anti-Corn Law-League hos offered three prizes of 20, 10, and 5 guinens for tho best practical essays demoustrating the inju. ry done to tennmit farmers and farm labourers. by the Corn Laws, and the advantagen which those classes wolld derive from its tow and inhmediate repeal. 'th order to nvoid prollxity and bseless tiscussion on at subject which has latterly dttracted to much attention, thoy have yery pro. perly limiked the longth of the deedy's to bikteen pagen octivo This is a fine opportunity Yor some of our intelligent furmers to take up the questian i, 'The state of the Corn Markets'it.prce beht will lend them some absistance in showithg what protection, thes derive from the SIfing 8calc.
The Compitue of tha itanchesternagrieultural Sóciety which holds ite anhual meeting on the' 2th Instant, having learnt that Professar Isiebig, the distinguished, quthor of "Organic Chemiotry of Agriculture and Physiology" would Hen-me in England, unanimously resolyed that an invitation sfiould immediately be forwarded to thim by Jolin Moore, Esqr., F. I. S.e to attend the dinner; and ming of the first pigicuiturists of the Kingdont when assembled at Bristol, signified their intention of payilg their respects to him in Manchesters, where his important discoverics have beex sa. Well investigated, and are so highly appreciated. It is universally admited that Pro. ressor Liobig is the first living analytical chemist. As a proof of how much the science of Chemistry is appreciated at the present time in Great Britain, wa have only torefer to the leading agricul. tural pèriodicals; where we shall tind a large space tcroied to the writings of such men as Dr. Kladden, Profnssor Johnsion, Sprengel, and others. Every local egricultural society is discussing. the subject, and I find a course oflectures recently delivered before the Bath and West of England Socicty, (one of the oldest and best proYincial socielies), Wy Profeser frobinson; on Chemistry, Vegetable Plysiology, and Meteoro. logy as apiplied to agriculture, spoken of with the highest approbation: The highest advantages of all braaches of ary have been derived from a knowledge of ohemiatry; ind the agricultunsts are too miuch alive to its impoxtance, to allow shch a"cience to escape attention. On the other side of the Anlantic I observe that its value in connection with agriculture is appreciated by the frequent allusions to its principles in the agricul. tural journals, and the announcement of reprinis of Inebints, Professor Johnston's, and other works.
The Royde Botanic Sociev of London heid its annunl meéting a réw däys" sithce. Thé report of the Copncil for the past year showed that thêre had been a large accension of riembers, and that a very considerable sutn had been expended upor the gardens, which are lald out with greaijudgment; the weveril? parts 70 suit the objects of the Society, and the whole forming an excellent specimen of landseape gesdening. The Duke of Sorfolk was ra: elected: President. Specimens grown in the gardens of variout kinds pf grase and oiher plants, lately introduced trom New holland and elnguhere for agricultural purpones, were exhibited at the meeting. I will concludémy letter with iwd of three oxtracus from the loeal papen which mag, interest, zlihough the statiaerits aro handy credible. However,


Lamos is Cheis as Hins. - A voman from ihe neighbuarlinod of Beanly wint on Fruday 20 Invernose with 90 bons, with the prioe of thioh
lambe at the Murr of Ord Market. - Roveninird Aderfiser.
 cords the death of a hen 35 yearapld, ithe property of a farmer at rullyluins, afterlapip op fay caloutation 9,000 eggh.
Brit thero is the deathof an agriculfuriat pinh. tiry olderthan this hen. There died lately (sayi a German paper), in tho village of Felsbet Fobtbek in. Transylyapia, farmer named:Teisbeminth the 135 th year of his age. He alwpyspnipxad good henlth, and worked in the heh , until dive before hil death!

P. L. SIMMOND,

TIIE WIEAT ĆROP IN COANADA.WIDG官. $!$
A friend af ourm han lately retioned in Canda West, ind reporis that the fat jown whent had suffered gentrally ind conspderaply from the diecase of nist or mildews. He paye that from his own observation and frpatreporth ho conceives the crop suffered ilaparge tot the extent of onerthitd on that the ptoduce menom third at least less in quanstity and valua'thabris would have been if irce from thia dipegens, He montioned one farmer who had apow, wheat liot year in the month of August, and thig wheat wame perfecty free from rust, while wheat e, whobyi the sàme individual in September, on-the mamal quality of land, was much rusied This wointr show the advantage of early mowing . Tha eroin? of early sowing is so far advanced rowardninat turity before the latter cnd of July-the dangeters ous seaton of rust that if che atraw should thent be rusted, it will not iujure the grain tidity opx tent. The spring wheat he teparts tha be:yeris good generally. He says thit a most excellegits system of farming is adopted by many in Capading West, and summer-fallowing executed in $\mu$ ree., English farhion ; but that others pursue A yeryo slovenly and delective syskem, and that weedy. and deficient crops result from this syetem. Fir Fanners complinin of the high wases of labour and the extremely low price of produce, except hay. Wheat, 3s. 4d. to 3s. 6d. ; Peas, $13.8 d_{\text {j }}$; Oats, 10d; to 1s. ; Potatoes, 10d. to 1s.-rether * a poor crop. He mentioned the pew mode of constructing houses with unburnt brickey and. what aretermed mud walls. He spoke faroura; ic bly of bolh, and says they are a bheap and rend mode of construction, and make wim, and it handsome houses when properly placiered and os finished: 'The roof is alluwed to projece coneid. $\mathrm{m}_{1}$ erably over the outer walls in order to save thempros from rain. Stubles pighit be conquycted of tuna burn brick; they would be wariti and cheap. Inn They should of course have' a 'foundition of of stone. We statl refer to dis subject agitia,

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Eagly Maturty -On Thuraday the robi ofty m September last, a shoanling and a lambivas'u:
 weighing 48, lbe per quarter, and the tamb 26 , Ibs, per quarter. The shearling produced 16 lofs $x$. of wool the lst of Juni last.

A Newn Fork paper states that a certain poot pereun was going to. open a bankinghotatat

FOREIGN CORRESPONDENCL.

## From our own Correspondent.

London, October 3rd, 1842.
My Deax Sir,
The importation of foreign gram into the 'Tnited Kingdom continues to bo very large, not only from the northern ports and Amenca and Caniatif, But also from the Mediterrancan, ship. ped from Russia and Ansher. Indeed there is naw quite a glut in the Brush markets. The furmets are holding on not beung willing to thrush out their whent for sale at the present rates, and since the importation of fureign oxen from the Continental ports they have refused to sell their cattle at the late ruling prices. Al. though prices have come down considerably, it Es evident that these articles of consumption must both fall to a much lower standard. Of the Spaniah catte which hnve been recently brought over nonc exceed 700 in weight, and the average ia about 500 . They are principally cream or fawn colour, and about the head louk much hike the huffalo. They ore very deep in the shuulders but thin in the hind quarter, and have rcalzed hitherto about elo. a head. The highest price yet given is $\mathrm{fl4}$. 5 s., and the lowest $f 6$., berng about 40s. per cwt. There are several more exteneive failures this monthamong corn merchants. The large annual govermuent contract for sup. plying the navy with rish provisions, was recent. Irtaken at a reduction of abous 25 per cent. on last'year's prices. The quantity required was 16,000 tierces of beef and 14,000 tierces of pork. It wastaken by liondon houses at from 10 s. to 12s. per tierce below the prices of the Irish manu. facturers. The prices were from 5, 9, 10, to 5,$14 ; 8$, for pork and from $5,18,6$, to $5,19 l$. for beef, the prices of the former being about 30 s. and the latter about 26 s. per tierce lower than lait season. The yield of grain tas been very productive throughout the conatry, and a form of prayer and thanksgiving has been issued and ordered to be generally read in clauches, for the bounty of Providence an tuc late abundant har. reăt and fino weather.
The heat of the last summer was so general and'intenge, that even Iceland is eaid to have telk its influence, and had a temperature as high as 20 degrees of Rexunur, 77 Fathenheit.
I learn from Mr. Hebeler, His Prussian Ma. jesty's Consul Gereral, that Count Hompeset, a Belgian genteman, has taken out a patent for the preparation of a manure more powerful and cheaper than any yet invented. His plan is said to consist in fixing all the volatile parts of night moii and other such sulstances, by means of the ashes of the oolitic shale of Portyand. The shale is employed in the first place, as a source from which oil, turpentine, and othcr substances are extracted ; the residue gocs to the preparation of the manure, which is said to be converted some where on the Isle of Dogs, and sold in a dry state in the form of bricke, as the materials to be thus employed are inexhaustible, and at present al. mont valueless, it is expected that the prepsataon of the fertulizer in question will become a mater of great national importance. As people have becomie too wise to wonder at sugar being made from old rage, so will they be equally prepared to bear that cil and tallow and soap are to be fabri-
cated from the hardened mud of tho coal mines; for such is "Shale."

Nearly four thousand pounds have been airea. dy subscribed for the monument to the menory of the late Thoinas Wm. Coke, Enrio! Leecester. Pruminent amongst tho subscribers is loord Woodhouse, the Lord Lieut. of Nurfulk, fur 50l., who had all through life beon opposed to the deceased Peer in polucs. This is as a should be, when thu interests of our country and the m . pruvements of agriculture are to be served, all petty and paryy jealouses should be thrown over. board. In the spread of umprovement among the eulavators of the soll all are more or less miterest. ed, and should conibine therfore for the general "elfare.

The distinguished founder of Organic Chemiso try Professor Liebig of the University of Grissen, has been in England for about a month; one of his principal objects being to exaanine into tho state of agriculture in this country.

The greater parts of the Strand, Oxford-street, Regent-strect, Newgatestreet, Holborn, are now laid down with fine blocks much to the sausfacfon of the several i. habitants. The horrid din is avoided, and the immense traffic gong on is almost unheard. Every principnl thoroughfare will soon be overspread wath timber, Scotch gramte has gisennay to the procuce of the Baltic and Irish paviors are altogether at a discount.Just about this period most of the anniversary meetings of the numerous agricultural societies are held-and there are a great number of shows, dimers, \&c., falling about this period. The The American Minister, the Hon. E. Everett, has been attending several in order to make him self acquainted with all the routine of English agriculture.

## Yours' truly,

P. L. SIMMONDS.

## AGRICULTURAL REPORT FOR CANADA EAS'T.

Since our last Report the weather was very favourable for completing the harvest, and the grann crops are now nearly all safely under cover. Most of the potatoe crop are also secured in the best order. We do not recollect a finer time for taking up this useful crop than we have had snce the first of October. We had slight frosts a few nights, but not sufficient to do any injury. From the ist of August the weather has been as favourable for harvest as could havo been degired, and by the late reports the weather has been equally fine for harvesting in the British Isles. We have nothing to add to our last Report in respect to the grain crops; the produce has been well got in, and is in full proporion to the mode of cultivatom and fertlity of the soll, except the wheat, of which there is only a small quantity. The potatoe crop is not a large one, and on all strong solls in partecular the produce is very detacient. Clas solls should not be culuvated for this crop to any great extent. Unless the season is very favourable clay soils do not work woll in potatoes. If the weather happens to be too wet at the time they have to be ploughed, the crop is sure to turn out badly, and the land becomes so hard and overrun wih weeds and grass, that it recetres very little benefit from manure or this fallow crop. Sunmer-fallowing is a much more ce,tain meana
of improving strong clays than by plauting then with potatoes, and we think a cheaper meane, though one crop is lost. It requires a good crop of potatoes to pay the exponse of sced and oulti. vation, and they should neser be planied upon fand that is not suitable for them andlikely to produre a fair crop, unless in casen where a far. mer has none of the most suitable moil and wishey to grow what is necessary for bouse nee for his own family : but to culivate potatoes extonaiveiy on unsuitable soir, with a view to make profiz by the crop, is a bad speculation, and more pro. bably will cause loss than bring profit to the far. mer. - An acre of pofatoes cannot be cultivated, manured, and planted with seed, at a lessex. penec than from twenty to thurty dollars ; pad, wo conceive that if the crop of one diere is not worth tea pounds currency to the farmer when taken out of the ground, he loses by theirduttivation. We, therefore, would not recommend planiting potatoes, except for the farmer's own' usc, unlese these results can be obtained.

Dur estimation of expense may possibir, require some explanation, which we beg to offer:The land requires two ploughings and two harrowings generally, before the drills are made to receive the manurp. The drilla are then to be opened-about thirty conmon cart loade of ma. nure is required per acre-this is to be carted on and spread in drills. Since the dry rot has fiffer. ed seed potatoes, they requise that the cut eetd should be of larger size than Eormerly, or be plant. ed whole-and in cither case, it will take, at least twenty bushel per acre. Seed have to be laid and covered with the plough. When the pote, tocs are about appearing over the ground they must be bush harrowed. Again, when the glantid are sufficiently over ground, the earth has to bob ploughed from the drillo-whey are thar 10 'bo hoed-harrowed between the drilt-and finished by ploughing the earth up to the plants. This is generally the whole process of cultivating pota, toes, and perhaps the following is a fair estimite of the eost :-

Six ploughings, at 5s. each.......... E1 10.0
Three barrowings, at 2s. 9dido.... One hoeng and weeding at......... Thiry loads ol manure, at 2s. each Carting manure, spreading do....... Twenty bushels seed, at 18. per bushel.
Cutring seed and planung do.
Total expense of one acre....... 076 36 300 $010 \%$. 0100.
1.00
0.26

To this amount is to be added the rent of the land. In some cases the manure may.costriore than our esumate and in some less. The carting to the feld may also cost more, but seldom less, Altogether we do not think our esumate. is much in error. The taking up the crop and puting them under cover is to be added to this eatimatio. It 15 on this estumate that we say the produce of one acre of potatoes should be worth to the.far:mer, when taken up and secured, ten pounds or forty dollars. If sold-subsequenty they shoukd pay over the amount, the expense of efelling or otherwise disposing of them. Surong claye ghat are well summer-fallowed with, a small quantity. of manure or lime applied as dressing, will be in a better state to produce a crop of whoat or barley than 4 would be after potatoen. We have given an excellent article on the procesef of summer-fallowing in this number, from Cowis Practical Agriculure, and recomimeta itatrong 5 to the attention of our agricultural friends.' ${ }^{\text {We: }}$
d not think it would be practicable to improve be lands of Eastern Canada by any olher means $n$ well as by summer-fallow. They require itaining, cleaning, removal of stones, and levelling, and these improvements catnot be effected utany other tume so well as when the land is uder the process of being summer-fallowed.

The pasturee continue good up to thrs time, ind caule should be in good condition this year, It the commencement of the winter.
The produce of the dairy in butter is very nbundant, and selling at muderate pnces.Butchers' meat is very low in price, woth no pro bable chance,that we can perccive of any inprovemegt. We ate not aware of any establish. nent for preparing meat for the English market; and unleas salted ment is suitably prepared, it is not likely to produce profit to the exporters, how. ever low the prices may be here. Fruit has not been a large crop this year, and yet the prices ufe very low in consoquance of the importation of foreign frait. The ploughing has commenced, but the land is difficult to work where the soil is nrongclay. 'Indeed'lands of every quality would require some rain to render them fit for the plough. Light suils do not require fall plough ing for spring sowing with grain unless they are in grass. Farmers may wish to have all the work possible, done in the fall, as the spring is often lateand when there is much work to be erecuted at that season: some of it is necessarily $t 00$ long delayed. From these circumstances it may be prudent to ploughall we can conveniently in the fall; though it might not be neoessary to dogo on light or sandy soils, unless full of grass and weeds. Theprincipal good of fall ploughing in to pulverve, istrong clays, tot and dostroy the regetative pawers of grass and weeds by exposure to the winter frost; and in order to have as much as possible of the werk dome before the spring, in our shott and rapid seasons.' These considera. tions shoutd govern the farmer's proceedings in regard to fall proughing. Light and sandy soils require no pulverization, and therefore if cican and not in grase, they do not actually require fall ploughing, norare-they benefied by exposure to frost and waterin:a'ploughed state. Now is the time for completing the draining of ploughed and unploughed sont; and much of the farmer's success in raising large crops next year, will depend upon bis perfect draining this fan!, We again repcat, that it is useless to sow, manure, or plant land that is not sufficiently-drained, with any expecta. tion of rasing profitable.crops. Five pounds expended in draining. land that requires it, will pro. duce more benefit than ten pounds worth of manure will produce, applied to land that is not suf. ficiently drained:

Cote St. Palul, 2list October, 1842.

It is reported that very heavy losses have been metained by Canadian merchants, who have exported largely to Britan durng the last two years American wheat and flour. This is one of the consequences of our carrying trade of the produce of a forcign country. It would be instructive to have a balance sheet matie ont, that would show exactly the profit and loss of this trade during the period referred to. Unquestionably some parties must have gained by the trade; but if the loss autained by those whose capital was employed, was more than equal to t'se, whole ampunt paid apon thin wheat and gourduring jts transit through Canada, we ccennot-8be how this trade can be profitable to this country. If our merchants bave lost capital by purchasing and shipping this
foreign wheat and flour to Britain, it is perfectly clear that the forcign producers and merchants have gained the full amount which our merchants have lost, as the latter must have paid too high a price for these articles, in proportion to the ! 's which they were ultimately sold form the Britisn markets, for which they were originally and expressly purchased. No speculation can be moro unsafe than purchasing bread stuflis at a high rate for the supply of a distant market, that cannut be reached for two or three months, and which during that perind, is open to be supplied from the whole Contincnt of Europe, that is much nearer to home. It is alwnys safe to purchase bread stuffs when very low or at moderate prices, but when verv high, to buv largrly, generally produces loss. If the loss sustained by our merchantz had been paid for Canadian produce, the capital would remain in the country, and the merchant would have some chance to get back part of his losees; but the loss in this instance, has actually gone into the hands of foreigners and there remains. Another great evil of this carrying trade is, the withdrawal of capital from this country, and the employment of it in the encouragement of foroign industry and production. The advocates of free trade should enlighten us on this subject if wo have taken a wrong view of it. We confess that we cannot comprehend how this country generally, can be bencfited by the trade referred to, under the particular circumstances wo have stated. Some parties must have gained all that our merchants have lost for the last two years by the wheat and flour trade; and, ns we before observed, we conceive that it was the foreign producer and merchants who were the principal gainers; let the adcocates of free trade prove the contrary if they can.

The general interests of this country must suffer injury, when our working capital is diminished and lost by trading with foreigners. Let us not be misunderstood-we are not enemes of com-merce-on the contrary, we wish it all possible success. We have, however, every objecuon to that commerce that $1 s$ corried on with foreign countries to the neglect and injury of our own, and to that employment of capital which with. draws it from the improvement and production of our owrdotintry, to encourage that of a foreign atate. We never shall oppose any thing that will be clearly for the general benefit of Ca nada; but so long as we are connected with this paper, we certainly shall oppose what we shall conceive to be.only for the benefit of separate classes, and against the general interests and prosperity of the country. We copy the follow. ing article from a late number of The London Journal of Commerce - a journal exclusively devoted to commerce:-
"We are not amongst those who, at one fell swoop, would increase the facilities of exportation hither to foreign nations to the same scale as those of our own colonial posscssions; for in doing so we should bestow upon the foreigner a large preponderance of advantages. Circum. stances have placed many foreign nations in a position which enables them to raise their pro. duce and send it to market at a much cheaper rate than that at which our colonista can bring it forward; and whether this is owing $t$, former or existing misgovernment of our dependencics or to topical disadvantages not yet overcome, still these matters must be taken into the account of facts upon which a proper system of legislation could be adupted. Wo are assured that such a course could be pursued at-would opento us the marketg of foreign countries, would actasmain spring to a healthy trade at home, and would, at the same time, reinvigorate and maintain re cruited our colowial interests.
"It is impossible to overrate the amount of care which should be bestowed by Great Britain upon her North American colonies. It is her especial duty to cultivato their intcrests with a Costering: hand, whon the great experiment that has been tred tupon her resources in the late session of Parliament, is considered. That the trial will prove successful, wo feel assured; but still it inust be remombered that we have compelled thi colony to enter upon a new groove of industry, and we are bound in every way to assiat its pro gress furward If the prorere nid be thus afforded to it, we have few fears for the result; and we. omen that ere many years have passed, Canada will be able to afford to us large supplies of articles required by this cuantry-that these suppliee will be derived from permanent resources inistead of the comparatively temporary means by which its trade has been hutherto sustaned, and that in return tha vast dependency will take from Great Britain, on mutually advantageous terins ilargely increased amount of her industrial peduce:"

We are fully persuaded that'this fatter picture might be realized; and that by proper care and encouragement, both by the home government and the colonial legislature, to our agricultural interests, Canada would become one of the mon valuable appendages of the British Empire-and we are, on the contrary, equally certain that with. out this care and encouragement Canada will not be that valuable colony, that she is every way capable of, as regards situation, climate, and moil.

When we read of the vast expenditure that is constantly going on in England on public works, steam-.ships, \&c., \&c., we would be at a loss to understand where all this vast means for expenditure is found, if we did not know that almost every shilling so expended remains in the country, and only passes from one person, business, or trade, to another person, business; or trade The money expended on public works, steam-4 ships, \&c., \&c., becomes actually a part of the working capital of the agriculturist, the merchant, manufacturer, and iradesman, who make use of them on their necéssarý bueiness, in travelling, or carrying their produce upon them, and the payments theyimake' for this use of them, may be considerd as the unterest they pay for their share in thin cap. ital. The cost of travelling and transporting produce, by the modes that were heretofore in use, would have paid the interest of a larger amount of capital than is now required by our new and improved modea. Hence this apparently vast expenditure is actually only changing the mode of employ. ing capital very much for the advantage of society. We would recommend those who are disposed to find fault'with the espendi ture of money on public roads in zastera Canada, and the establishment of tolls to pary the interest of this money, to consider well this subject in all its bearings, and they wily find that the money so expended is a loan to every farmer who makes use of it, in proportion to the extent of that use We would observe, however, that this money should be judiciously expended, and the tolls hot over what was necessary.

If is calculated that the prevent-auminer is the hottest and longent we have expeijenced in this country for the last thirty-fous years.-English pars.

## OBSERVATIONSILLUS'RATIVE OFTHE

 HISTORY OF AGRICULTURE.Agricnlture may, with justice, be said to be as ancient as the world; it had its origin even in the terrestrial laradise itself; when Adam possessed the preciaus buif frail treanure of his imnocence, the Almighty who placed him in the garden of delights gave him a command to lress it, and keep it.This culture was not painful and haborous, but easy and arreeable; it was to serve him. for amusement, and to make him contemplate, in the productions of the earth, the power, wisdom, and goodsess of the Creator.

The sin ef. Adam having overthrown this primitive order, and drawn upon hm the just but dismal decree, which ordams that he should obtaun his bread by the sweat of his brow, the Alpuighty changed his rleas ire into a punishment, and subjected hi il to hard labour and toil, which he would not
have known had he continued in a state of have known had he continued in a state of Vorn and disobedient to his dessres in order to punish his revolt against God, brought forth thorns and thistles. Violent means were necessary to compel it ta pay man the tribute of wheh his ingratitude had rendered him unworthy; and to force it by reborto supply him every year with the noursh ment, which before was given him freely, and witheut trouble.
Hence, thercfore, are we to trace the origin of agriculture, which from the punishment it was at first intended, has becume. by the singular goodness of God, as it were the mother and nursa of the human raco.
It is in effect,a source of sold wealth and of real raasure which is not dependent upon the opinionated caprice of man; whel at once derves necessity and enjoyment: by which a nation is independent of its surrounding, neighbours, and which supphes the defect of all other productions, when through certain casualties, they fall. It is, therefore, no ieason of surprise that agriculture was in great honour among tho ancients, and.that of all professions it was that Which was, consudered the most necessary, valuable, and indspensable. The princupal attention of princes and statesmen was in the early 'history of nations devoted to agriculture.
Amongathe Aseyriains and Persians, the Satrape were rewarded in whose government the lands were well cultwated, and such persons published as neglected this part of theirduty. 'Numa Pompihus dovided the whole territory of Rome inte different cantons. An exact account was rendered of the manner m when the lands were cultivated; dyrng has reign he caused the husbandmen, to come before him, that he might encourage theso who had therr lands well manured and in good cultivation; and where necessary repruarh for the want of industry. The riches of the earth, observes Dionysiue, Hajlicarnassus, were lo'lled upon as the most juist and Jegitionate of nature's gifte, and prefetred to the advantages obained by war, which procured by volence, were of uncertam tenure, and of short duration. Ancius Mlartius, the fourth King of the Ronang, who prided humself in imitating the wise institutes of Numa, next to the adoration of' the gods, and the reverence of religion, recommended as of much importance, the cultivation of the lamis, and the breeding of cattle. The Romans long retained the character of an agricultural nation. and it was usual for him who neglected culnvating this branch of matiopl mdustry, to have drawn upon hum the anmadversion of the censor.
Agriculturg was in no part of the world in higher eatimation than in Epgyt, where it
was made the particular object and policy of th agoverument; no country was ever boiter. peopled, or moro rich of powerful. What history informs us concerning the opulenco of eeveral cities in Sicily, and particularly the immense riches of Syracuse, the magnificence of its buildings, the powerful fleets wheh it fitted out, and the numerous armies wheh it had on foot, would appear almost incredible, were it not confirmed by the credible and collaterial testimony of every cotemporary historian. We camnot helieve that the Sicilians derived this wealth from any other internal sources; the produce of thetr lands was improved with astonishing mdustry. We may judge of ther applicatron is the culture of land, from the care taken by Iliero II, one of the most powerful kings of Syracuse, to compose a treatise uponagriculture, with which he gave several valuable rutes for increasug the fertlity of the land.
But besides Hiero, prinees of other coun tries are recorded, who did not think it unworthy their brith and station, to leave to posterity, precepts upon ngriculture; so sensible were they of its value and utility. Of this number were Attalus, surnamed Philotometor, king of Rergamus, and Archelans, king of Canpadocia; Mago, a Carthagiman general, also wrote upon agriculture, as did Plato, Xenophon, Aristotle, and other contemporancous philosophers. When Carthage was taken, the worls of Mago upan agriculture was found consisting of twentyeight volumes, and so much value was set upon it, that the Roman senate ordered it to be translated, a task which was undertalsen by one of the principal magstrates. Cassus Dionysius of Utica, had prevously translated this work from Pume into Greek. In Rome, consuls and dictators were often taken from the plough; Ciceut antions Attilus, as strewing the seedon the ground with his own land, when ambassadors came from Rome to invite him to take the consul. ship. In those happier times, says Plmy, the earth seeing herself cultivated by the hands of trumphant yuctors, seemed to exult and beng forth her iruits in greater abundance.

Cato had a taste for a rural life, and devoted himself with great attention to agricultural pursuits. Ife resided near the famous Maulius Burin Dentatus, who baving thrice recoived the honour of a triumph, becoming the greatest among the Romans, conquering the most warlike nations, and driving Pyrrhus out of Italy, was content to live in primitive parsimony, and in the simplicity of his parernal mansion upon a few acres of land. IIe it waf, when boiling kis roots, told the ambassador of the Saumites, "That gold was a small thing of value to him who could be satusfied with such a dinner, and he thought it more glorious to conquer those who had that gold, than to pos. sess it himself." -Selected.

Value of Thread for Lacz.-The exquistely fine thread which is made in Hainault and Mrabhnt, for the purpose of being worked into lace, has occasionally attained a value almost meredible. A thousand to fifteen hundred francs is no unusual price for it by the pound: but some has actually been span by hand of so exquisite a texture as to be sold at the rate of ten thousand francs, or upwards of $£ 400$., for a single pound weight. Schools have been established to teach both the netung of the lace and drawing of designs by which to work it ; and the trade at the present moment is stated to be in a more flourrshing condition than it has ever beeu lnown before, even in the most palmy days of the Netherlands.-Mr. Emerson 'fennet's Delgium.

THE WILD RICE.-Zixania aquatica.
This splendid and interesting cercal grow in water at the edges of ponds, and in slug gish straams, in various parts of the count1 of Middleser. It bears soma reremblanc to slender stalks of Indian corn, and grows from seven to ten feet in height.
But let us give a short account of it, as it is found m ts natural locations the Far Weet.
Thls singular and spontaneous grain, is, by the Indians called Menonen, and claime particular attentios:. It is found in inexhaustible abundance in the northern part of Illuois and in Wisconsin and lowa territo. ries, in almost every one of the innumerable lakes, ponde, rivers, and creeke. It fre, quently grows when the water is six feet deep, where the hottom is not hard or sandy, and rises above the surface from four tid eight feet, and is often so thick as to prevent canoes from passing readily through it: A fow days before it ripens, it is usual for the Indians to force their canoes through it, and tie it in large bunches for the purpose of prevonting the wild ducks and geese from breaking it down and destroying it. When it is fully ripe, they pase through it again, and spreading their blankets in their canoes, they bend the bunches over them and thrash of the grain with sticks-an operation that reguires but little time, and is genarally performed ly the women. After drying it in the sun, it is put aside for future use. It is iaid to be as palatable and nourishung as the rice of Carolina. There is a tribe called the Menomonies, or Rice Eaters, and ther physical superiority and personal comeliness, is thought to be the result of their frequent and long continued use of this kind of food.

Professor Bigelow, in his "Collection of Plants," has given it the following descrip. toon:-"Culm jointed, as large as the hittlo finger; leayes broadlinear; panicle a foot or more in length, the lower branches with spreading barren thowere, the upper with de. pressed, eacet fertile ones; the seed are blackish, smooth, narrow, cylindrical, about three quarters of an inch long, deciduourwithin white and favinaceous - ripens in August."
lit may now be found in the Mill 'Brook; from the banking-house down to the river It is probable that the seed was originally deposited there by some bird of passage. Horses are said to be fond of it, and no plant employed as forage yields a larger crop.
The wild rice will, probably, at no distant day, become an object of cultivation, since it affords a means of rendering productive large tracts of inundated ground, and stagnant water. Loring's Pond in Concord, and Roblins' Pond in Acton, and perhaps others in this vicinity, have a deep, rich, alluvial bottom. The former, containing seventy or eighty acres, and but three or four feet depth of water, might probahly, with a httle trouble in collecting and sowing seed about the borders, be in.the course of a few years, entirely covered with it. It is hoped that the proprietors of these ponds, never behndhand in labours of useful enterprize, will not suffer any delay to take place until they have tried the experiment; and if it has the valuable properties of the common rice, its cultwation is certainly a desideratum, and may become a source of additional wealth to the ovners of such lands, and to New England.
W.
[TS The above description of the wild rice of the Western waters, copied from the Concord (Ms.) Freeman, leada us to suppose that we have seen it the present season, on the borders of the outletstream of Wenham Yond. When cutting our grase there, we
and several stalks for which we knew no me, and which were new to us. Our exrination of them was not very particular, hat our remembrance of them is such as to cisfy us that they were the same plant bit is described by "W." in the foregoing ricle. The plant is worthy of attentionb. N. E. F.
the Nature and Propertirs of tife Oxrife Daisi, and the most mffectual yode of extirpating them and pleeventing their spread. Dy P. L. Simmonds. Member of R. E. A. Society, Hon: Menber of the Montreaz. District Agriculturat. Society, Corbesfondent of tie New-York State Agmicultural Societs.

The great white oxeye daisy (Chrysantheum Sencanthemum), is a perennal weed ery common in many pastures. The spees and varieties of the germ of plants to brh it belongs are exceedingly numerous, dmany of them are of great beauty.bey derive their generic name from Chrys gold, and Anthemon, a flower referring the brilliant yellow colour of some of the ners. The great oxeye is known in vavs districts and localities of Great Bria and North America, under the eeveral rincial nemes of moon-dasy, mandlinit midsummer daisv, \&c. The root is anched, tongh, and woody, with many fibres stem is erect, solid, five-cornered, simor branched, varying in lusuriance acding ta the soil, from one to two feet high. eleaves arc oblong, obtuse, cat, primetiat the base, clasping the stem, and of a ? green huc. The radical leaves are 7ate, and stalked. The flowers are large, minal, solitary, not inelepant with a broad bur disk, and brilliant white radins. The ds have no down. Thus much for its anical description. The flavour of the ble plait is herbaceous, and slightly, but pleasantly aromatic. Its nutrient pro. les are umimportant. Like the crowfoot many of her herbs, mixed with the na. grasses, it forms part of the hay crop, does not appea o be grateful to horses attle.
me plants accommodate themselves to ry extensise range, and of these the ie daisy is one. It is found very generis mosit conntries, although more abun in some localities than others, and esally tenianting light soils. It has been 1 growithr at an elevation of 2000 yards e the level of the sea.
bis noxious perennial, like the corn romile (Anthemis Arvensis), which it ables in flower, though not in leaf, ocas great trouble to the agriculturist, bhardly to be got rid of without correct ring and sowing down, followed by weoding in the young grass, before the have become strongly rooted, or the s of any of them have been allowed to xrate. If suffered to ripen its seed, leed will generally be spread widely the ground with the manure. There To modes of extirpating this weed, both pich haye been sucressfully tried by Titer. The first is that of irrigating od, where it can be done so as to place opletely under water by noodmg, which; at only kill the oxeye, but freshen and Tte the pasture. The oxeye usually eses rapidly in dry seasons, and therethere water is not at hand, to be made Ble for irrigation, the most effectual pget rid of the weed, will be to topthe grass land well so as to ensure a
produce of about two tons or more of liay to the acre, and the clover will then effectually smother and lill tho weeds.

The corn marigold (Chrystntienun Scge(um, Seimaus), is a congener of the great oxeye, but being annual inhabit it is a much less pernicious weed.

The stalks are rounch, stiff and branched, growing two feet high. The leaves stand irregularly, growing close to the stem in an alternate order, they are deeply indented at the sitles, besides leing long and very broad, smallest at the base and growing broader as they advance to the end. Tliey are of a blueish green colour. The root is tapering and fibrous. The flowers are like those of the common marigold, large, broad, brilliant, and of a beantiful yellow. In Scotland this plant is called "yellow gowane," "quills," "grols," sc.; in Kent, "yellow battle"; in Norfolk, "buddles," and "budland": in the midland counties of England, "golds," "goulds," or "gowls,", and in the north, "gowlans," "goldens." and "gules." It particularly infests arable lands and is abundant in corn and turnip fields. The corn marigold, together with the dead nestle (Iamium purpureum), and the wild Kale (Raphanus raphanisirum), may be expected in lisht samily or loamy soils, especially such as have been imperfectly cleared and laid down. This plant is found growing at an elevation of from 300 to 800 feel, in climates where the main temperature is about 45.2 degrees, and generally indicates a surface soil of light black loam on a clay subsoil.It is very averse to dung, and hence it is seldom to be met with in richly manurad lands. A diessing of clialk or lime applied to soils where it abounds will totally exterminate it. Sume farmers recommend the land to he manured in autumn, summer-fallowed, and harrowed in about five days after sowng.

Professor Martyn asserts that it can only be eradirated by hand before the seeds ripen. This myy be true when the plant has reached an advanced stage of growth-but by timely care it may be liept under and got rid of before it comes to seed. In Denmark there is a law which compels farmers to extirpate this weed; and it is stated in the 2nd volume of the "Statisical Account of Scotland," pare 4, that the late Sir Wm. Grierson and other landholders of that distriet, in ordor to prevent the spread and growth of this weed, held what were termed gool or gule courts of inspection, for the purpose of fining those tenants on whose growing crups three or more heads of the marigold were formel. Sir John Sinclair, when President of the English "Board of Agriculture," justly observed upon this subject, that "some regulation of police for fining those who harbour weeds, the sceds of which may be blown into their neighbours grounds, has no injustice in the principle."

The nutritive properties of the corn marigold are very insignificant; it is asserted by some that horses will cat the fodder, made from the plant when cut youmg and in flower, but I have never tested the fact.

Rembestion. - Recreation is a second creation, when weariness hath almost annihilated one's spirit. It is the breathing of the soul which otherwise would be stiffed with continued business.-Fuller.

Self Derendence.- $A$ firm trust in the assistance of an Almighty Being naturally produces patience, hope, cheerfulness, and all other dispositions of. mind that alleviate those calamities which we are not able to remove.-Spectator.

Capital necessary for a farm of 500 acres, according to Professor Low's Practical Agriculture; would be between five and six pounds sterling per acre. 1le sets down all the items, stock, imploments, seeds, \&c., and shows how this amount of capital is employed. The calculation is made for a farm situated in the South of Scotland. Three hundred acres supposed to be in til. loge, and 200 acres in meadow and pasture. Ile observes:-
"The capital necessary for a farm is the sum which a farmer must possess, in order that he may carry on his business. This partly depends upon the customary degree of credit in a country. The farmer doen not usually pay ready money for all the commodities lie requires, but trusts to that degree of credit which is common in his business. And the same remark applies to almost every class of traders in this country. A merchant rarely limits his trade to the extent of his ready money, but trusts to that degree of confidence which exists: and in this way the greater part of the trade of this country is carried on.
"In like manner, the person who enters on a farm may not find it neceseary to pos. sess all the capital which would be required were he to pay for every thing; yet the nearer his funds approach to this condition. the greater will be his security. Tor many engage in extensive farming on a loose and imperfect estimate of the funds required, and find, when too late, that they have miecalculated their means.
"A want of necessary funds is often more injurious to a farmer, than even an obligation to pay a high rent. With an inadequate capital he is impeded in every step. Ife cannot render justice to his farm ; he must often bring his goods prematurely to market to supply his wante, and he will pay largely for the credit which he is compelled to seek. The farmer who has ready money at his command has, like wery other trader, great advantage orer one who is forced to seek credit, and will be enabled to make a profit on many transactions in which the other would sustain a loss.
"While, therefore, it cannot be contended that a farmer who lives in a country where credit is the soul of commerce, is not to avail himself of this benefit, yet he must be careful not to miscalculate its effects-and, at all events, and Jike every prudent man. he must make himself acquainted with the real am unt of his pecuniary obligations.This is the true principle upon which the capital required for a farm rhould be computed. The sum to be determined in that which the farmer has to advance, before a quantity of produce is raised upon the farm sufficient to replace the advance, and aupposing all payments to be in money."

These remarks apply as well in Canads as in Scotland. Without sufficient capital at the command of the farmer here, he cannot expect to make muet profit of faraing, or to carry it on with credit to himself,whatever may be his skill and industry. The prices of produce here must be in nearer proportion to the wages of labour, and the prices of other commodities that a farmer has to purchase, than they are at present, or capital will not be empliyed to the required extent in agriculture. Every imported article are at a high price. No agricultural implement can be purchased here for any thing near the English price. The most inferion abtirles are sold bree nía
such as brould not be made use of upon an English farm. This may not appear to be of great consequence, but nevertholess it is a very great loss to the farmer to have implements of inferior description. We do not sny that all agricultural implements are bad, bit certainly a large proportion of them are so. $\Lambda$ labouring man, working on a farm, call do much more work with a good implement than with a bad or ill made one.

PREPARATION OF IAND FOR CROPA.
There is much strong clay land in this country, and we have constantly rocommended summer-fallowing as the best neans of cuitivating and preparing them for crops of any kind, and particuiarly for wheat. In our Treatise on Agriculture, we have given a short chapter on the process of summerfallowing, but as many of our sulscribers inay wish to have the opinion of other authors on the subject, we copy the following from Professor Low's Practical Igriculture:
"The fallowing of land consists of a course of tillage continued for a certain time. When it is continued ${ }_{1} r$ an entire season, the process is termed the summer-fallow.

A coulrse of tillago during only a part of the $s$ ason is adopted in the case of preparing jand for such crops as the turnip, the cabhage, the potatoe, which are thence frequently termed fallow-crops. 'This preparation consists of a series of ploughings, harrowings, and other operations, continued until the land is cleaned, and otherwise fitted for the crod to be cultivated.

It is chiefly on the stiffer clays that the nummer-fallow may be held to be an essential brancl of farm management in this country. These are tilled with greater dif ficulty than the lighter soils, and do not alnays admit of the cultivation of those particular classes of plants, as the turnip and potatoe, which are suited to the lighter soils, and which render upon them an entire summer-fallow necessary. Afurther reason exists for the adoption of a sumner-fallow on the stiffer clays, namely, that the most valuable bf their productions is wheat, for which the summer-fallow affords the best preparation. The manner of performing this process, therefore, merits the serious attention of farmers in this country.

Whatever be the nature of the soil to be fallowed, the first ploughing is in all cases to be given in auturnn, or before winter, so that the soil may receive the influence of the winter-froste, and the growth of weeds he cheched; for certain weeds will grow during the montiss of autumn, and partially in winter and mearly spring: but by mverting the surface, and exposing the roots of those plants, and the under part of the soil, to the frost, the vegetation is checked until the process of ploughing can be resumed in the following spring.

In all cases the first ploughing should be as deep as the plough can oonveniently he made to go. A good plough with a pair of horses can easily plough from eight to nine inches deep, and this is in most cases an efficient tillage. But should the nature of the soil render it necessary, an additional force of draught must he employed, so that the requisite dapth of furrow may be given.Thus, in some of the marly and tenacious moils of England, four horses may be required to give sufficient deptin to the first ploughing of fallow.

Often it is boneficial to give a deeper ploughing to land than the ordinary depth of furrow. This may be effected by what is termed trench-ploughing, in which one plough, deprived of its mould. board, follows in the track of another: but, in place of the latter, there has been recently employed a species of plough termed a subsoil plough. It is constructed wholly of iron, weighs about 4 ewt., and requires the active force of four horses, It has a diollt slare, but no mould-board. Rising from the share, and parallel to the body of the plough, is a flat piece of iron, the use of which is, that when the plough is struck by stones they may bo forred upwards by means of the inclined plane which the piece of iron presents. This is a most efficient instrument, and of admirable use in stirring the subsoil without mixing it with the upper stratum.

With respect to the manner of laying the ridges, that kind of ploughing must be adopted which if malculated to keep the land dry during the me nths of winter, this being an essential noint of practice in the class of soils for which the summor-fallow is requirod.

A grood manner of presorving the land in a dry state is cleaving with open furrows. In this manner each ridge is divided into two, so that good provision is made for allowing the free egress of water.

Sometimes the ridges may be gathered, and at other times, when the land is moderately dry, they may be cast. In whatever manner the ridges are ploughed, they remain in the same state till the following spring, and care, therefore, must bo taken that all the necessary cross furrows and channels shall be made and carefully cleaned out, so that no water may stagnate unon the field.

In the ordinary management of the farm, the first operation in spring, as soon as the weather allows, is the sowing of the spring crops of grain. When this essential labour of the season is completed, which in England is generally from the middle to the end of April, the tillage for the land intended for such crops as the turnip, the potatoc, and other fallow-crops, is to be resumed. But though these are the first in the order of preparation, and must necessarily be the irst attended to, yet the summer-fallow should not be neglected at this early season, but should receive one ploughing, not later than the $m$ nth of May, and the earlior in the month the better.

Now this, the second ploughing of the sumner-fallow. may be done in two ways. Tho land may be either cross-ploughed, or ploughed in the direction of the former ridges. On the lighter and drier soils, in the cases where such solls are subjected to the summer-fallow, the cross.ploughing is the better method. But, in the case of stiffer clays, the ploughing in the direction of the former ridges is to be preferred; for this is a provision against the effects of heavy falls of rain, which, were they to occur at this early season, when the land was ploughed, without open furrows to carry off the water, might so saturate it as to render its subsequent tillage precarious and afficult.

The next ploughing, which is to be as early in June as the other labours of the farm will allow, is to be made across. Immediately after this ploughing the land is to be harrowed by repeated turns-the direction of cach double turn crossing that of the previous one. These double turns are to be repented four, five or more times, as occasion may require; and the roots of all plants which are dragged to the surface by the harrows are to be carefully collected by the hand and laid in heaps. A cart then
passing along the rows of heaps, the collect ed plants are to be forked into it, and carried off the ground. They are to be formed into a compost by being mixed with quick-lime so as to destroy their vegetative powers.

Sometimes these weeds are burned on the ground, and their ashes spread upon the surface : but this practice is not to be imita. ted, the ashes yielding an inconsiderable quantity of manure compared with that which is produced by forming the weeds into a compost.

It is of great importance at this period of the summer-fallowing, to drag to the surface and collect as large a portion as possible of the roots of yivacious weeds in the ground; for, this being the period of active vegetation, every part of these rooss which is left in the ground will grow again and extend itself.

It is by the repeated action of the harrows that these ruots are detached from the soil, and dragged to the surface. When necessary, the roller is also to be employed. This, bruising the clods or indurated masses of earth upon the surface, enables the teeth of the harrow to act upon them. When the roller passes over the ground, the harrowa immediately follow. At this time, too, the grubber may be employed, as subsidiary to the action of the harrow.

This is a period of the summer-fallow at which all obstructions arising from land. fast stones and other impediments to tillage are to be removed; and if drai?s are required, it is now convenient to form them. Not only at this time, but during all the subsequent operations of the summer - fallow; draining, the removing the obstructions to tillage, and other works, are carried on.The obstructions of this kind to be removed are, generally speaking, any thing that may impede the path of the plough, and interrupt the common operations of tillage, such are the roots of trees, stones, mequalities of the surface, and the like.
It has been seen, that, in the management of the summer-lallow, the first ploughing is to be given before winter, when the land is ploughed lengthwise, in such a manner an that the land shall be kept dry until the til. lage can be resumed in the following epring : that the second ploughing is to be given as early as possible in May, and, in the case of stifi soils, Jengthwise; and that the third ploughing, which, in the common course of farm-labour, we may hope to accomplish in June, is to be given across, when the principal labour of harrowing, rolling, and disengaging weeds, is performed, and when opportunity is taken to begin to drain, clear the ground of stones, and perform similar operations required.

As soon after the last ploughing and clean. ing as the state of the weather and the labours of the farm will allow, the fourth ploughing is to be given. This ploughing may be performed in two ways. It may either be given lengthwise, and the land formed into ridges, or the whole may be ploughed into deep divisions, without regarding ridges, as in cross ploughing. The former method may le adopted when the season is critical, and the land stiff and naturally wet. This is to avoid further hazards from great falls of rain; for, by forming the land into ridges, it is placed in a state of comparative security. But it allows of a better subsequent tillage of the land to lay it flat, by ploughing it in large divisious without yet forming it into ridges.

## DURHAM BULL "COMET."



Bred and Owned by JOHN HOWITT, Esquire, Guclph, Western Canada.

To the Editor of The British American Cultivator.

## Dear Sir,

Herewith I send you a correct
Portrait of my pure bred Durhan Bull "Comet." He wis calved on the 10th of May, 1838,-being of a red and white colour as delineated in the accompanied drawing. Comit was sired by Reformer, wheh was imported by Rowland Wingtield, Esar. Reformer was selected from the celebrated herd of the Rev. Henisy Berry, Acton Rectory, Worcestershire; and was got by Worcester, dam Favourite, by Warden; grand dam Amelia, by a son of Atlas; great grand dam Actonia, by Duke Humphreys great g. g. dam, by a son of George; great g.g.g. dam, by Badsworth. Worcester was got by Whardale, dam MLiss Kindsor, by a son of Wellington; grand dam by a son of Windsor.

Comet's dam was Cowslip-a roan cowimported from England in 1833, by the above mentioned Gentleman; and selected from the same herd with Reformer. Cowslip was gut by Warwick; dam Yellow Neck, by R. Collings' Pilot. Warwick was got by Wharidale; dam Peace Blossom, by Mr. Whitaker's Triumph; grand dam Rose, by Mr. Binns' Arthur; great g. dam, by Allison's Grey Bull ; great g. g. dam, by a son of Favourite. Trumph was got by Prince of Waterloo, out of Mir. Whitaker's Moss Rose, by Western Comet. Moss Rose was judged to be the best cow in England. Peace Blossom's dam won a sweepstake in 1818 at Lancaster, and in 1819 she won the cup.
At the last Gore District Agricultural Show held at Dundas, Comet weighed 2,025 lbs.
Permit me to add, that I have twelve thorough bred Durham cattle, four of which are cows that will calve in a fow months; besides a number of half bred and other graden of the same breed. I have also
twenty thorough bred sheep and lambs of the pure South Down breed, carefully selected from the flocks of the best Jown breeders in England.

Respectinaly yours,
JOHN HOWITT.
Guelen Grange
October $26 \mathrm{~h}, 1842$.

## EXTRAORDINARY FARM PRODUCE.

Notwithstanding all that has been said and written on agriculture in Ireland, and besides the many instances of successful practice in parts of the country, comparatively little is yet known of the real ferthity of the soil, and immense capabilities of this hitherto neglected part of the empire. The people know not the extreme powers of thear land, for in few instances has a form been brought by judicious cultication to the maximum point of its production. Perhaps the most successful example of what land is capable of, under proper management, in Ireland, and what immense crops can be rased, may at prescut be seen on the national model farra, under the Board of Eduration, at Glasmevin, near Dublin. This farm is strictly conducted on the improved system of green cropping and house feeding. The farm contans fity-t co etatute acres, is conducted on a scientific rotation; on it are kept during the year twenty-two head of catte, with three horses. It supplies on an average minety persons during the year with farm produce, such as milh, butter, potatoes, vegetables, \&c., \&c., and the farming establishment with pork, besides a mumber of private familes in the above articles: a constderable of vegetables are carried to market, and all kinds of grain which is abundant. There is at present a crop of oats upon the farm, the produce of fourteen and a half British acres; it is secured in eight stacks, and is estimated by the best judges to be
equal to the average produce of fifty acres. It stood perfecily close upon the ground, average six to seven and a half feet in height, the head and ear corresponding. The other crops, potatoes, turnips, Italian rye-grase, Stc., Sc., of like quality. The manager conducts the farm on his account, pays 2574 . 7 s . 8d. per arnum oi rent, besides other ex. penses, amounting in all to upwards of $400 \%$. per year; and we are informed and believe that he realizes a very handsome annual sum from it besides, He labours and mian. ages it almost exclusively by a number of hoys, agricultural puphls, and teachers, who are there in training in the science and practice of agriculture.
As a test of what land is capable of producing when brought to its maximum point, there are few examples such as we have in this particular instance ; there is perhaps. more crop ratsed, more cattle kept and fed, more human beings supplied with the common necessaries of life, more manure accumulated, more cmployment given, and, in fact, more money made, on this spot of. ground, than on any farm of the same extent (conducted on a proper scientific rotation of grain and green crop) in any part of the empire, or the world. Did the average land of Ireland produce only one-half the value according to quantity that is on the tnodel farm, we shuld hear no more of corn laws, tarifis, or want of employment among the people.

A Visitor.

There are at the present moment in the Cobourg Dock, at Liverpool, four of the largest steam-ships in this or any other country-the Great Western, 1,400 tons; the Acadia and Columb a, 1,200 tons each; and the new steamer Hindostan, recentry launched at the above port, and burden 2,017 tons, making altogether a burden of 5,017 tons, and in value estimated at nowards of 200,0001.-Liverpool Mail.

## From Alism's Population.

When the wealth which has accrued to society from the surplus produce of those engaged in agriculturo has become considerable, the natural tendency of the buman mind to long after luxuries and increase enjoyment by the productions of distant states, leads to the growth and extension of Commerce. The means of amassing wealth, which thas profession is speedily found to bestow, atracts multtudes to its occupations, and leads to the utmost privations and dangers, being cheerfully undergone in the insatiable thrst for gold. If it be true, as it undoubtedly 18, that the love of money is the root of all evil, it is also the source of much good; and among ats beneficial influences none is mote deserving of notice thin its effect, from the very first ages of society, in oxtending and dispersing the cwilized races of mankind. In vam is the inhabitant of wealthy regions chamed by habit, friendship, and artficial enjoyments to the place of his birth; the wealth of commerce proves an irresistible magnet, which draws him into distant regions, and in the very number of lis artificial wants, and the variety of his acquired enjoyments, are to be found additonal motives, which pronpt him to penctrate distant regions in quest. of the wealh by which alone these enjoyments can be purchased. From the very earhest ares, accordingly, commerce has been the groat propelling force whech has dricen civilized man in:o distant regıone, and given rise to those stations for the transit of merchandize, or the mutual convenience of bnyers and sellers, which "ws afterwards grown into the greatest cities.

But the habits of commerce and the desine of gaimonly render man a transjent sojourner in distant' regions. When his wealth is made, when his object is gained, he returas to the land of his birth, and all the labours of his manh od are sustaned by the hope, -that he may ultimately settle in the place of hativity, and have his bones in the tomb of his fathers.

The acgujgition of comfort, the production of weidith, the growth of luxuries, form 2 part only, andurb a moral vew, an meonsiderable part of the destury of man. Rirhes are not alyzys egrental to happiness, ether in nations or individuals; wealth may accumulate and men decay; poverty and suffering may rednimate the species, and awaken again, atberthe slumber of centuries, the sacred fireiupth' which the real welfare of the race depends. Alifh yigh the subject of pational wealih; and the means of increasing it, is unquestionably of very high moportance, youthe exclusi ce direction of naLional attereiof to the objects which it embraces, canthardly fail to be attended in the end with peraicious consequences: and as it leadr mor'aside from the real end and Lim of his Meing, itificonstantly attended, if exclusivelyemgiossing the hational thought, with thoses piremonetory sytnptoms which fram ham thit he has gone astray.-Ib.

Without agriculture, men woild he wanloring and unsettled lives, disputing wath ach other for the possession of such ammals they could mane their prer, and for the contaneous fruits of the carth. They would Be no boud of socie!s nor country.
By multielying the resources of fowd, agenilture has permitted men to unite thepTrew into popmunities for mutual assistce. Whifat gome cultivate the land, io crease ite prodiction others apply themIren assidpounly tofurnishing society with
the necessary implements of industry. It is plough, see., seemed to me of the first thus, by reciprocal intercourse and exchanges, commerce has been established and civilication extended.-Selected.

Nomors Plants Useful. - Many productions of nature is good in its kind; and If any thing is found to bs noxious, it is because we do not make a proper use of itHence it happens that what promotes the life of one ammal, occasions the death of another, and the sam plant which in certain curcumstances is regarded as poisonous, in others is highly useful and salutary,The number and diversity of vegetables growing upon the carth 18 prodigious, and we must not imagine that they were all created for the use of man: some are designed for beasts, some to exhale grateful odours, and others are useful in many of the diseases to which the animal economy is subjected. The same thung holds good with regard to many living creatures, which, though very dangerous to man. are useful to other animals, as affording food or modicaments. Many birds feed upon insects which are considered as noxious; domestic fowls are fond of reptiles-peacocks and storks will feed upon serpents. Some of the nost efficacious medicines are composed of the most poisonous herbs. The number of plants and animuls of a poisonous or venem. ous nature is very considerable, compared with that of those which are evidently useful and beneficial; and both men and animals hive a natural repugnancy and aversion for every thing which is hurtful or prejudicial to their nature.-Sterens' Reflections.


To the Edtor of The Rriush inurican Culivator. Snis,

In compliance with your request, I now ofer you a shart sketch of the Great Agricultural Meeting of the New-York State Society, held in Albany upon the $27 \mathrm{th}, 28 \mathrm{~h}$, 29th, and 30 th days of September-an exhibition which has afforded me the highest gratification in all respects.

Ileft Kingston upon Monday the 26 ha for Oswego, and made the acquaintance of Mr. Hzynes, a very mtelligent Canadian farmer fr in Dunders County, who was also on his way to the Albany show. Mr. II. gave me some vers interesting information regarding the ravager, is his quarter, commited by the grub of the Hessian fly upon the wheat crops-a subject of the deepest interest to the agryculturist-and I reuch fear, an evil beyond the power of man to avert, though some:hing may be don to alleviate the scourge. We had a beautiful day, and un due time reached Oswero, were transhippred into the canai boat, joined the rail-road at Syracuse, and after a pleasant sun down the Nohawl Valler, get into our excellent quarter at the Eagle without any mischance. The late stormy and wet weather has greatly retarded whrot sowng in New-York State, and at was rare to see a field ma finished state.

Wednesday the with came in, is fine as could be wished for. The agrictitural implements, which were far ton numerous for me to detail, had been the subject of experiment and competitou on the preceding day. The matcrials and workmanship of the
order.
The arena $\iota^{*}$ a mpetition was admirably adapted for' the purpose. The Trotting Match Course, one mile in circumference, is enclosed by a boarded fence about 14 fees high, and the interior area is a richland vardant meadow, of which about twenty acred were selected for the show. In the centro was erected a very large bnoth for roote, fruits, and fowern, and other vegetable productions, the coup d'mil of which was truly beautiful and arranged with much taste.The President, Vice-Presidents, Secretary, \&c., occupied a very lange. Marquee, where the Clairmen of the varioun Committes received their instructions and made their reports. About twenty smaller Marquees were allotted oo the various Committeen and Judges. The cattle were disposed of round the oatside of the great circle, in their several classef, and conmodious pens received the calves, sheep, and pigs in different pirts of the field. I was gratified to find that the excellent regulations of the Highland Society of Scotland were minutely adopted. The animals were ticketed with a note of age-and a certain number, and no reference allowed to names of owners. The entrances and exits were extremely convenient, and che receipts at the gato on tho 28 th, came nigh to $\$ 800$. besides the other days. It is impossible for me to give any correst account of the hort of fine animals on the ground. In fact my attention was entirely absorbed in the duties of Chairman of the Committee upon Bulls $\boldsymbol{z}_{2}$ and the intelligent gentlemen who acted with me, will readily corroborate the difficub ty of the task imposed upon us. I send you a list of the premiums awarded. I waw aware that much attention had been piid to Short Uorn Stock in New-York and adjoining States, but I was not prepared to see animals of symmetry and beauty, which might have competed successfully in any
British exhibition. I was much pleased with the sheep pens. Leicester, South Downan and Cotsw los in high perfection. The great size and fine form of the latter, will be a sure panacea for renovating Leicertors: when they become 100 fine.
The evening was closed by a Public Meeting in the Chamber of the House of Assem. bly, where some able addresees were mado. upon the subjert of agricultural sehools.
Thursday the 29 in proved another lorely morning, and by nine o'clock, omnibuser. and vehiles of every description were ratthing out ta the "Bull's Head"" about a mild from :own, where the show wan held. The great attraction that day was a Ploughing Match, which was well contested and gave much satisfaction. The attendance of ladied at lue Cattle Show added much to the interest of the scenc, and as they drove roand the race course, they had the best posaible opportunity of seeing and of being seenAmong the great subjects of wonder and ada miration, I must not omit the Genesee $O x$ of my friend Mr. Rust of Syracuge-an animal truly stupendour, and weighing abou: 4,000 lbs. live weight.
At two o'clock the public again assembled in the Capitol, where Governor: Seward delivered an address upon the subject of agriculture, and upon the whole did considerable justice to the subject. Upon the motion of a member the Governor was unanmously thanked, and requested to furnish a copy for publication.
Next cape the announcement of the awards, ard this was conducted in a manner perfect'y new to me. Each Chairman of a Committee seemed to have the option of handiag his report to the President, or of mounung the romtram and reading it him-
self. I think this seemed to be the favourite mentary care, nothing, in an essentially agmode of procedure, and considerable pains appearedtw have been taken-to dress up the roports ${ }^{2}$ in smart thape. The report upon the pife wast mo pittily interspersed with gibee and jos or that I was not a little conounded. but upon inquiry I found the faceteous Chaifithin was a privileged joker upon pige, and had been for some years in the annual hatit of relaxing the muscles of his ouditory upon the grumphess.

This mfernoon closed with a public dinner in Knickerbocker Hill, and a first rate dinner it was. J. S. Wadsworth, Junr, Dsqr., of Geneser, President of the Society, filled the Chair, aud discharged the duties in the same gentlemanly pentible manner, in which he has comported himself through all the laberre and diacultien of the week.Some very clever pubic mon were present, and many'eidellent'speeches were de. sered. It. would be mont ungrateiul anu ungenerous inime, were I to pass unnoticed, the truly hardsome' and kindly terms ir Which the relations of our twa countries were treated. For myself as an-individual I must say that the hearty spirit of hoopital ity and good fellowship with which I was paiverally groeted, laft me nothing to regret, except the absence of Canadian friends o witnees ind partake; an enjoyment which Itruiat they will not deny to themselves upon future occasions. I verily believe that'fix'months would not have suffic ed me to exhaust the frank and urgent invitations ITeceived to visit naw acquaintançes. and friendes.

I beg you will excuse this report crude and defective as it certainly is, but my time doe not permit me to enlarge.
I remain, Sir, 'your well-wisher in the good cause you have in hand,

ADAM FERGUSEON.
Woodminx October 4th, 1842


## Sin

Your papar is. avowedly undertakèn and publiahed for the purpose of advocatil $s$ mprovementinnd heartily wish you every succeas, aid trast your laudable nttempt may effect:the donble object of remunerating you, and proving ueeful to the commynity. It neede no microscope eye to discopa er innumerable pointe viere improvements may be efbeted in the present slovenly mode in tinch farming operations are too generally carried on in this naturally fine country. The onasesare numerous indeed 00 far ate my obvervationgoes they form the majority, among farmers, where the imple-mente-med and the modus operandi, are bnt a degree supprior to tha state of things in Britain tive tiome of the Roman invasion; but mufotunitaly, the clase of which I speak, for the mont part lie without the apho e of anci direct infinenco from subli cation like yeurt,for the simple reasoas that many car not, and the pehers wiff not read it The only wiyty which in my apprebension, inpiovement gan be effected smong these persoulh, it by the establishment and judicious operation of local societies: by which a spirit of emulation and mendment any be awakened among the more intellirent, which, ly sure though perhape slow and impercoptible degreen, would permente the whole mane an a little leaven leaventh the whole lamp.
One groet object of your attention should therefore be to atimulate and promote the fremetion of Asricitural Sociotion but I ennot but lantily acee with you thate to

ricultural community like this. can by any possibility be conceived more worthy the gravest and most anxinus deliberations of the government than the encouragement improvement, and protection of the farmers. Who are the Colonists of this Province but the farmers? Of what is the bulk of the community composed but farmers? What interest can reasonably and legitimately be opposed to theirs? Is it that of the carriers and storekeepers? I look upon these but $2 s$ the baggage train and sutlers of the camp; and what good general ever placed them in the foremost rank? Let meltell the farmerg, or rather do you Sir, tell them that they are blind to their own interests, and waning in their duty to those dependent on them, unless they make it a sine gun unon with those whom they elect to represent their opinions, and to promote their interest their real interest that they be impressed with the paramount importance, and pledged to the advancement by legislative enactmen ${ }^{*} \varepsilon_{3}$ of measures beneficial to the majority of this corn-growing community. Among these, the placing some restriction to tho importation of foreign grain is a point upon the necessity of which the opinion of the agricultural clasges is unanimous. Why then is a protecting duty not imposed?Again, would it not be for the general bene. fit to close with the offer which I understand has been made by the bome government to admit Canadian corn duty free, on condition of the abolition of Colonial dutiea on Rritish productions? What objection can be raised to this fair instance of reciprocity $i$ it is however abundantly clear, that if the latter of these measures be adopted the former must of necessity accompany it, etherwise we are only making ourseives more literally than we are at present, a mere cat's paw on ro-between for the benefit of our dear and affectionate relative "over the border."

While upon the subject of legislative enactments I would call your atiention, and that of the Assembly, to what I believe is the frat that the Act William IV. a 12, for the regulation of line fences and watercourses has been allowed to expire. This was an useful and beneficial act to the well intentioned and anxious-io-improve part of the community and ought to be re-enacted.

Yours, \&c.,

## F. JONES

Carradoe, Sept'r 36th, 1843

THE GRUB.

To the Editor of The Brithoh. American Cultivator.

## Sith

I:obrerve in the end of your Iuly number, scome Queries by a Subscriber, in reiation to the "Grub or Cut-worm." Iforward to you last month, some dried eppecimens of the grub, and its progeny, riz:

1. The Grab itself, its chrysalis, and shells of the later after the escape of the ly.
2. The fly produced from the clirysalis.
3. Shells, or remains, of egas of the grub, and

## 4. Flies produced from these egges.

In Cobbett's English Gardener, p. 224
(Edn. 1833), I find a grub described, which resembles the appearance and habits of the grub sliuded ta Cobbett Bays, $\boldsymbol{u}$ Black Grab-It ahould be called the brown grab, for it in not black. In ite workinge, it it half wat between $x$ rockworm and a catterpillar. It hiea anagly noder the ground near the rocte of the pians in tho day time, and
comes up at night, eats the plant off at the stem, or eats ont its heart" My attention was drawn early in the summer to a bed of carrots and onions, which were disappearing every day, (or night, it it happened), the toph being bit off close to the ground, and no cause could be discovered. The fly, the vexathous of gardeners and turnip-growers, which was sporting about in the punahine enjoying an eatly harvest was blamed, but only becsuse it has a bad name. ' I consider' ed after a while, that not perceiying any thing disturbing the plants in the day time, and finding on more than one occasion a grub enugly reposing under some protectve from tha sun rays, night must be the time this species of the Lepidoptera, would be at work. I sallied out after dark, lantern in hand, and found my enemy. Having dircovered that it made its harvest while darkness reigned, I was afterwards prepared;and indeed might have been previous to this, had Is on the subject of gardening, been less ignorant. The grub this season häsben very destructive on some farms in thit neighbourbood, to peas, barley, and potatoe tope, and I believe, in a few cases to spring wheat and oats.
F gathered all the grubs. 1 could find, and F found that by close observation, their retreats could be discovered in the day timeby noticing the ground a.little freoh turned up, under which they lay. I pathered them in a tumbler. Common whiskey would not destroy the grub quickly, for though to. all appearance dead, yet when the whiskey was poured off, would in a few hours recover. I tried sulphur on them for some weetis, having fed them with leaves, but though twisting and turning in the sulphor, yet they eat the leaves, and seemed nothing the worse. Ethen-bept a number of grube in'a tumbler, fos many veeks, and fed them, but on more than one occasion when, for a week I gave there nothing, I found the stronger ones devour the weaker. The ret of the number. I still kept confined, (the mumber of days and weeks, in the soverat chomen referred to, in this letter, I cannot say with exactness), and by the bye. I found one change to the chrysalis stane, then anothet, till there were six of zeven pa changed. I recollect o: finding a grub at thin tige, in the gardeb, and I put it in tha tambler. but it killed the remaining unchanged grubs by cutting it into two. Inoticed that for mome ahort time before the grube chanced, that they eat nothing, though: mpplied with the same foot they had lived on. The changen, I think, happened in the night time. I kept no earth in the tumbler. The chrysalis wit: of a light brownish colour at first, and by and-bye grew a little darkor, but never mo dark as those I found in the earth on digging. The specimen No. 2, show the if after it emerged. It is a migh or twilight moth, of a grevish colour, of the group I map pooe, called Nocturna by Zoologints.

A short time before the first of tho. moht appeared from the chrysalis, found two grubs, and put them in the pame tambler, when in a very shot tipae, some dayth one of them laid a parcel of egge, (see specimen No. 3), all attached as it were to each othor by the silky wool of their coveringer and then in about two daye died, the other grab ahortly after laying egge, and then dying slan These eggs wero rather more than 2-16tin of an inch in length. The mother one by one, were appearing, and in the pro grear of cime the small egge, (which hat increased in size a little), buret it the one end, and-produced a light browniah sleady: fy, with four winge, two maller than th athere. (Specimen No. 4), I shoald lite mach to tee some of your corringaitiste
explan, thes, in comparison wath the other chango. of the grib.

I was particular in not allowing any living thing have commumcaton with the coments of the tumbler, for I kept it in a shady place in my house, and covered. I have this week found two grubs wheh I have contined and am now feeding-but if an opportunty occurs next season, (some may say, God grant that such will not be)! I wall be more minute in my observations.
"I am, Sir,
Your most obd't. servant, JOIIN J. E. LINTON.
Stratfordj Illuron Disthict, $\}$
6th Ocialer, 1sis.

## SIMCOE COUNTY AGRICULTURAL SOCIETY.

## For the British American Cultuator.

The ploughang, and show of gran, took place op the l., wh mstant, at Mr. Richard Drary'fi P'enetanguashme Ruad. Six teams competed for the premume, which were aw, arded as follows; viz.:-

Ist Class.
Best Ploughing, George Cadwell, $1 \begin{aligned} & \text { £. s. } \\ & 15 \\ & 0\end{aligned}$ Secind to., Willian Hall, 189 Third do, Charles Kerredge, $1 \underset{\sim}{2} 6$ Fourth 'do.; Win. Bachaunan, 0176 Best do., Chs.Partridge, jur. 100 $\begin{array}{llll}\text { Best } \\ \text { Second } \\ \text { do., } & \text { do., William Read, } & \text {, Partridge, jur. } & 1 \\ 0 & 17 & 0\end{array}$

| Fall Wheat, | Richard Drury, 100 |
| :---: | :---: |
| Spring .do., | Do., 100 |
| Barley, | Willam Garduer, 0 150 |
| Peas, | Michael Bergin, 0150 |
| Oats, | George Caldwell, 0100 |

The ploughing was excellent; as also the show of grain. The wheat was very good, and-the oats of first-rate quality, weighing 41 pounds to the bushel.
The day was remarkably fine, and mune host of the Farmers' Arms regaled the ploughmeh with an excellent dimer; after which the party broke up well pleased with the day's amusement. As the was the first show of the kind in the county, we hope for a more full attendance next ear.

James Cariver, Secretary.
Barric, 1lth'October, 1842.

## From Alison, on Population.

If we coisuler the stumatinn of man at his frot appearance in the worid, and for a long period after hus species liad berun to multiply, it is evident trat an unimited operatoon of the principle of increase is requisite, $m$ order to overcone the phystial difficulties with which he is surrounded. Without the sirength of many of the miterior anmals, without food provided by nature for his sup-port,-endowed with a constitution wheh required artufical coverng, and placed nalied in the word, wnlout any proiection from the weather,-cumpelled to mantan an incessant, and often duabtilu, struggie wath beasts of pres, and destatute of any weapons to counterbaiance their advantages, he is compeiled to contend from the inlancy of has being whh want, harkisip, and suffermg. Accustomed, is ac are, to the powers which ages of chtathation hate conferred upon manhmod, and to the c ouphets. subjugation of the lower ammats, Wuch has resulted from the extension of lis nambers, we can hardy amagine thic difficulues wath which our forefathers had to contend, when society was in ats infancy, and when the
human race seemed placed in the modst of boundless forests or morasses, only to become the prey of the matiorable savage ammals by whom they were peopicd. It is the rescarches of nudern travellers alune which can carry us lach, as it were, to the first ages of the world; which have explored those regions where man seemis lost in the immensity of nature; where the powers and numbers of the ammal tribes bear a fearful proporton to his feeble frame, unprotected limber, and unarmed hands; where the incessant roar of beasts of prey resounds, save at the hour of sleep, through forests of measurelessextent and hupassable thackness; where every element teems with enemies of superior strengh, perfect equipment, and meterate hosthly ; and where Ins race, so far from adrancing, seems to be hardyable to mamtan its ground aganst the difficultes and anmosities to whech it is exposed. * * * If the precarious and difficult situation of man in the savage, or pastoral, state is constdered,-exposed to perpetual hardshap tron the uelemency of the season; doomed to constant tull for the acqustion ot sulisistence; subject to many of the diseases and calamites inculent to our condition, and ugnorant of all the means whech experience or scence has discovered for ther allewaton; unacquanted with the mechameal arts, and but muperfectly shilled even in the simplest mothods of cultivation, it seems surprising hun his numbers could ever have increased, or the tender plant have taken root, amidst the rule sitocks to which it was exposed. Nothing has enabled it to overcome these obstacles, and emerge into an easier and more prosperous state, but the incessant operation of the principle of popalation, unrestraiaed by notions of prudence, unfottered by the operation of reason. It is this which has provided a constant adilition to the numbers of the spectes, more than sufficient to repar its losses; Whelh, under circumstances where reason would perhaps have daspaired of the fortunes of mankind, has ronstantly led to its multiI plicaton; and. through all the difficulties of infant existance, has born aloft, in every age, the standard of the human race.

## From Licbiz's Chenzistry.

Effelts or Sat.x.-Fresh ficsh, over which salt has been strewed, is found, after twenty-four hours, swiming in brine, although not a drop of water has been added. The water has been yielded by muscular fibre itself, and having dissolved the salt in mmediate contact with $t$, and thereby lost the poser of penetrating animal substances, thas on the account separated from the flesh. The water still retained by the flesh conaains a proportionally smail guantity of salh, having that degree of dilution at which a salace furd is capaile of penetrating memal substances. Thas property of auimal ussues is taken adrantage of in domestic economy, for the purpose of relioung so much water from mese, that a suffic.ent quantity is nui Jeft io enter into patrefachua.
In respect of thas plasical prupest of
 grinic sats. It is capable of muviehing hat is, of penctraturi ammal hesues, and puseesses such aut athinty for wa.er as to caluch at fremanumi subniances.
When a suiniva of sal., an a certan degree of adiacou, is miguincedibsto the stumach, it is absuibed; but a concentrated sahue solutuil, on phace of being itself aluourbed, exiracts water from the organ, and a bolent thist cusues. Some interchange of water and salt tahes place in the
stomach; the coats of this yiscus yield water to the solution, a part of which having previously become sufficiently diluted, is, on the olher hand, absorbed : but the greater part of the consentrated solution of salt remains unabsorbed, and is not removed by the urinary passages; it consequently enters the intestines and intestinal canal, where it causes a dilution of the solld substances deposued there, and thus acts as a purga. lite.

Putrid Potsons.-The poison of bad sausages belungs to thins class of poisonous substances. Several hundred cases are are kin vin in which death has occurred from the use of this kind of food. In Wurtemberg espectally, these ceses aro very frequent, for there the sausages are prepared from very various materials-blond, livea, bacon, brains, milk, mea!; and bread, are mined together with salt and spices; the mixture is then put mito intertines, and, after being boiled, is smoked. When these sausages are well prepared, they may be preserved for moinths, and furnish a nourish ing saroury frod; but when the spices and salt are defficient, and particularly when they are smoked too late, or not sufficienty, they undergo a peculiar kind of putrefac. tion, which biegins at the centre of the sausaye. Without any appreciable escape of. gas taking place, they become paler in colour' and more soit and greasy in those parts. which have undergone putrefaction, and they are feund to contain free lactic acid, or lactic of ammonia,-products which are universally formed during the puirefaction of animal and vegetable matters.
The canse of the poisonous nature of these sausages was ascribed at first to hydrocyanic acd, and atterwards to sebanic acid, although nether of thsse substances had been detected in them. But sebanic acid is no more poisonous than bënqaic'acid; with which it has so many properties in common; and the symptoms produced are sufficient to show that hydrocyanic acid is not the poisen.
The death which is the consequence of poisoning by pulrefied sausages succeeds very lingering, and remarkable, symptoms: There is a gradual wasting of emuscaler fibre, and of all the constituents of the body. sumlarly composed the patient become much emaciated, drics to a complote mumiomy , and finally dies. The carcase is stiff, as if frozen, and is not subject to putrefaction. During the progress of the disease, the saliva becomes viscous and acquioue, and an offensive smell.
Experments have beon megde, for the purpose of ascertaning the presence of some matter in the sansuge 3 to which their porsonous action could be ascribed; ;hut no such matter has been detected. Boiling water and alcohol completely destroy the porsonous properiies of the sausages, with. wit thenselves ucquiring similar propertier. How this is the peculare chacter of all substances which exert ant action by yirtue of thar exisung condation,-of those bodies the clemunts of which are in the siate of decumpushtun or transposition; a state which is destruyed by boiling water and acohol, whinut the cause of the influence beng inparied to thuse liquids: for a state of action or pone: canuot be preserved in a liguad. Suasages, in the state here described, exercise an action upon the organism, in consequence of the stomach and other parts with which they come in contact not having the pquer to arrest heir decomposition; and cukering flie blood in some way or other, 'White still possessing' therr whole power, they ingart their peculiar action to the constituents of that fluid.

The poisonous properties of decayed sausages are not destroyed by the stomach ns those of the small-pos virus are. All the substances in the body apable of putrefaction are gradually decomposed durmg the course of the disease, and after death nothing remains except fat, tendons, bones, aud a few other substances which are incapable of putrefying in the coudition afforded by the body.
If is impossible to mistake the modus operande of this poison, for Colin has already proyed that puscle, uriue, chuse, cerebral substance, and other matters, in a state of putrefaction, coinmunicate their own state of decomposition to substances much less proile to change of composition than the blood. When placed in contact with a solution of sugar, they cause its putrofaction, or the transposition of its ejements into carbanic actid aut alcohol.-Ibid.
We shall make further extracts from the same author " Liebig"" on the subject of «Poisons, Contageons, and Masms;" in continuation of what we have selected aboye, and we doubt not that our subscribers will find. them to possess considerable interest. The effects produced by inorganic, orgatic, putrid, and morbid possons, and their mode of action, are subjects not unworthy the attention of agriculturists.

## ACKNOWLEDGMENTS.

Wer have since our last issue, received regalar files of The Newo L'armers' Journal, London, England, bearing date up to the 25 h of September, for which favour we beg to tender our sincere thanks to the publishars of that journal:

We hare also to acknowledge the reccipt of an August number of The Gardeners' Gazetle, London, England. We are most happy to place this valuable journal on our Exchange List, as we intend to devote more attention to the subject of IIorticultural improvement, in the future numbers of The Cuimifator, than has been heretofore be. stowed to it in its columns.
Our friend Joni Mainan, Esqr., will please accept of our sincere thanks for The Leeds Intelligeicer sent us. We might extract much interesting matter on agricultural topics from this journal, but we must for bear for the present for want of space. We would however ber to give the following jtems:from the proceedings of the Weticerby Agricultural Sociciy's Exhibition, held on the 2list of September last, for the information of our readers:-
"Mr. John Ifow, of Arkendale, cxhibted 2 remiarkable large red Noriolk turnup, whichmeasured 36 inches in circumterence -and Mr. Wm. Inman of the same plare also exhibited a white Norfolk turnup, which measured 42 inches in circumference.

A fine specimen of Giant Clover, sown May 18th, 1842, and rrown upon strong clay, was exhibited by Mr. John Cramant, gardener to Col. Thompson, of Bolton Lodge, near Thadcaster, which measured nearly 4 feet in he:ght. Also a sample of Yellicw Chaff Wheat, trown upon turnip-fallow, sown March 2 ind , and reaped nugust 23 rd , 1842, weighing 65 lbs. to the bushel, was shown by Wm. flannain of North Deighton."

Anong a long list of extra premiums, given ior Prize Essays, \&e., wo notice one awarded of $\mathbf{C 1 0}$. to John Hannam, Esqr., on the various methods of applying liand Tillage upon Corn and Turnips proved by practical experiments, showing their respective merits both with regard to the costs and produce, more particularly in referenco to the broadeast and drill system. Wo would consider it a favour were the Essay alluded to sent us for publication in Tree Cultifatur.
Mr. Robert Denison, in a lengthy and able specch delivered on the above occasion, ailuded to Mr. Hannan's Essay in the foljowing flattering terms :-
"He now held in his hands the Essay written by Mr. John Hamam for which the prize had been awarded; and they might come boldly forward and say that not even in the Great Agricultural Society of Engrland, had there ever been an essay or paper brought forward, which had exhibited so much information with regard to the differ. ent varieties of soil, and the chemical properties of manures, as the one which had eminated from ths, the Wetherby Society. (Ifear). He was sure that he spoke not only his own opinion, but the opinion of the Committee, and of all who had any thing to do with the Society, that the thanks of all were due in a most cminent degree to Mr. Ilannam for the most valuable essay he had given them. (Cheers). And he would say further, that if the Wetherby $A$ gricultural Society had done no other gcod, this essay, produced through its means, would be worth all the troubte they had been at."

Two September numbers of The Farmers' Gazelle, Dublin, Ireland, came to hand. A very creditable journal, and one which will no doubt have much influence in elevating the cliaracter of husbandry in that fertile Island. We noticed in one of the numbers alluded to, a yield of wheat from 6 acres of ground, Irish measurement; ribbed in the manner which we recommended in the July number of The Cultrvaton, in the article "Hin's to the Wheat Grower"which produced the enormous quantity of twenty barrels of twenty stones each (barrel) to the acre, being upwards or 93 bushels per acre. The raticty is called "The Prince Albert," and may be had at the office of The Farmers' Gazetle, or at Murray's Seed Warehousc, Dublin.

## HOME DISTRICT CATTLE SHOW.

We had the satisfaction of witnessing the above Show, which was held on the grounds alloted and fitted up for the purpose near the New Gaol. The cursory wew we took of it will not admit of our descending to particulars, as might have been olherivise our pleasure to do, had we not prevously made arrangements to atiend the Dundas Show on the following day, and being consequently obliged to leave the ground at an early hour for the two o'clock boat for Hamilton. As the herald of truth, we are bound to express our opinions frankly. It is the general opinion abroad that the Home District Agricultural Socicty is in advance of all other similar societies in the Province, and that Fa:ming is managed with grea'er skill and proliciency in this District than in any other portion of the I'rovince. Much of the above
impression is weli founded, especially as it regards the latter ; but we fear we would not be doing justice to the Prosinco generally, wern we to assert that the former was exactly the case. We howover bolk forward to the day, which wo hopeis not far distant, when the proceedings of the Momo District Agricultural Suciety may looked up to as a proper pattern for other socleties to follow.

If the farmers generally were to hecome members of Agricultural Societies, and honour the exhibitions with theirpresence and influence, their protession would be respected hy other classes, and then would there be some hopes of their jnterests beging attended to in the Legislature of their country. The great agricultural movements which have taken place recently in England; and which are still in progress, haye done, much towards drawing the attention of Goyerpment to the necessity of contimuing protection to that class from foreign competition. Hay we not reasonably suppose that ${ }^{-}$" similar result would fallow, if corresponding snea. sures were adopted in this country?

In conclusion, we assure the Pfficers and Misembers of the Home Distriot Agricultural Society, that no exertions on our part shal! be withheld from cqusing ther Socrety to be-what we flatter ourselves it coon-will -second to none in the Province inipoint of numbers and usefulness.

## GORE DISTRICT CATTLE SHOW.

We were highly gratified at being- present at the above exhibition, held at Dundas on the 13 th of September, and are bound to. det. clare that we were a litile disappointed, but as a friend of agriculture we are equally constrained to bear witness to the pleasur. able results we experienced in that disaps pointment. We saw in uumerous inistanceie demonstrative evidence of the beyeficini tendeny of these celebrations. Therspirit of emulation which has been awakened in the District within the last few years; by 2 few public spirited gentlemen; whomp yo. may take the liberty to advert.at some, future: period, was manifest in every departmeat; and une, which if cherished as it no doubt will be under their control, will contrib butt still more and more to the improyement and ${ }^{-}$ success of the several employments itis designed to promote.
Our atiention was particularly directed to the horned cattle, which were worthy and do credit to that rich and enterprizing agriculural district. There were a great num. ber of bulls of the pure bred Durham breedi two of which in particular do much credit' to the genticmen who bred them. Werkeati the celebrated bull "Comet,"-a portrait of which may be seen in the present nl-mber: and the other owned by Mr. Davis of We] lington Square. There were a number of' yoke of workng oxen, some of thens of the" Deronshire crosses, of deep red colouk fine form, well traned, and active and powerifi in their movements. There were also is number of head of Ayreshire stock, owned hy James Evart and George Stanton, Eogrön which also deserve their meed:of prase:As a proof that the Gore Distric: Agricultural Socicty are dong much good, and hate it in ther power to do much more; we bey to state for the information and benefri of our subscribers generally, that the Secrietiry has upwards of 300 pard subsc:ibers on his book, and that the list is augmentiog with rapid strides.

## APPLICATION OF LIME.

As we hope our agricultural friends who have lime stone convenicnt and wood in abundance, will make use of the in preparing land for wheat, we copy an article irom a late number of The Mark Lane Exapress, on the best mode of applying hame, and we perfectly coicur with the writer. The arthcle referred to recommends 100 bushels to the acre, or a Bushel to the square perch.t'lhis quantity may be reduced at the option of the farmer. By putting only half a bushel ir each heap, it will make the quantity 80 bushels per acre, and at three quarters. of a bühel for each heap, it will unake 120 bushels per acre. The following is the article: -
"There seems to be a growng difference of opiniois as to the state in which lime should be applted to the soil. We have always been of opinion that lime, generally speaking, operates upon the sofl in two ways namely, chemically, and mechanically when ft is merely to operate mechanically, as to lighten heavy soils, it is of no moment whether it be applied in a caustic state or not: but when intended to act chemically, we hold that. it must be applied in a caustic state. We can apeak of our oun personal experiènce as to the practice over a very large district many thousand acres of re. tlaimed land in the West of England, where lime was the atice generally used in the firist instance to stimulate the land to ferthity. The lime is deposited on the land in heaps a perch a part each way, the lieaps of course varying in size accordng to the quantity per acre required to be applied, but ordimarily one bushel in each heap. It is then covered with a portion of the sult, and sufferéd to remain until it begins to slack moto powdery aind which of course varies in pont of time according to the dryness or moislure of the weather: the heaps are then turned and suffered agan to stand until the stibll lumps remaining are slacked, when it ip spread upon the soil whilst yet in a causticestate;eand immediately well hirrowed into the soil. That it is more effective in a caustic than an offete state; has been frequently prover in casess where, from some catise, two or three rows in a field have been saffered to remain uncovered, and by being exposed to beavy rain, was run to mortar beifore spreading; in euch cases, the differ. ence bas been manifest in the crop. We know.it to be the practice in some districts to mixithe lime with head lands, ditch scrapinge, and any other mould that can be collegted, in large heaps turning it over, and in due time carting it on the land: The operation of the lime, however, in this mode, is precieely the same as in the mode first described, with the difference, that in the former, method its immediate effect is on the soil of the field, in the latter on the suil collected in the heaps with which it is mixed. It has been said that, in as much as lime in a caustic state lias been found not to be injuripus to animal life; it therefore would produce no effect apon the soil; abstractedfy this.may be true; but it is the application of moigture, whichr caüses it to operate upon the.soil, and were water applied in proper quantity ${ }^{2}$ it would immediately become dcstructive to animal life: Thns subject is of great importance to the farmer."
In a communication addressed to the Royal English Ayricultural Society upon the same subject by a Mr. W. II. Fisher of

Conduct Strect; London, are the following observations:-
"The lime will be found, if properly burned, on a scicond ploinghing to be crumbled into piecess or powder, and on larrowing will be ultinately mixed with the soil. Froin the heat evolved durng the slackmg of the lime under gromut, and, its causticity, which diffuses itself by the agency of the meisture it meeits with through the soil, it will be found: to destroy, or at any rate to be extemely obnoxious to wireworms; slugs, grube, and other enemies which the farmer has to contend with, and which are frequently the canse bf fillure in his crops, as well as in rendering most verictable matter in the suil soluble, aud fovel for future črops. In conclusion, the good effects of applying. lime in the manher recommended, that is, in thic unslacked state, I liave myself experienced, and have received ample testunony to the like purport from extensive agriculurists, who at my suggestion have adopted the plan."
From these observations of experienced agriculturists, the Canadan farmer canmot be at a loss as to the best mode of applying lime. The first mode recommended we conevive to be the best.

## 50 IIS.

Surface soil of a finc-grained loam, from. the vicimity of Brunswich, beng analized. 100 parts of the sul contamed :-
Silica and fine seliceous sand..... 87,859
Alunina.
2,052
Peroxide of iron with a large pro-
portion of protoxide.
5,132
Protoxide and peroxide of manga-
nese
lime principally conbined with si-
$\qquad$
Magnesia ilem. ...................... 0,280
1,459
Potash and soda ilem.
0,090
hosphericacid in combination with
irôn.............................
Sulphume acid in combuntion with hime
Chlariv...............................
0,063
Chbrine in common salt .......... 0,006
1,109
100,000
This soil is remarkable from the crrcumstance, that not a single year passes in which corn plants are cultivated upon it without the stem of the plants béingatiacked by rust. Even the gram is covered with a yellow rusi, and is much shrunk:. It does not suffer from want of drain. ge; it is well exposed to the sun, is in an elevated situation, and in a good state of cultivation. In order to ascertain whether the rist was due to the constituents of the soil) (phosphate of iron?) or to certain fortuitous-circumstances uncomnected with theiroperation, a portion of the land was remóed to another locality, aud made mo an artificial soll of fifteen inches in depti. Upon this barley and wheat was sown; but it was found, as in the former case, that the plants were attacked by rust, whilst barley gröwing upon the land surrounding this soil was not at all affected by the disease. From this expertment it follows, that certain constituents in the soil favour the development of rust.Lime in sufficient quantity, is considered to be the nost effectual remedy, applied to sols that produce the disease of rust in corn crops. Soils sometimes contann à small portion of sulphate of the protoxide of iron, (green vilriol of commerce), and this salt exerts a porsonous action upon plinter until its action is checlied by the application of line o.the soil.

Aualysis of a very fertile alluvial woils from Ilonigpolder; no manure had eqver been applied to it. 100 . parts contain::Soliceous sand separated by the

ino parts of the latter consigtex of
Silica and fine siliceopus sand.. ...., 64,800
Alumina ..........................: 5,700
Peroxide of irdin. . . . . . . . ........., . 0,100
peroxide of manganese........... 0 , , 0
Luint . . . . . . . : . . . . . . . . . . . . . . . . 5,800
Magnesia.............................. 0,840
Potash, principally in combunation
with silica
$0,2 \mathrm{y} 1 \mathrm{~d}$
Soda, idem........................... 0,393
1hosphoric acid comlined with
lme., ..: :!न. . . . . : ................., 0,430
Sulphuric acid, flem.........e....... $0,0,10$
Chlorine (in common salt)....... 0,201
Carbotic acid, combined with line $3,9 \% 0$
Inmus soluble in alkalies......... 2,510
llumus...... ......................... 5,600
Nólrogenious matter....-:.... $: \cdot 0^{*}, 1,58$ ?
Water.i.:............................. 1544
100000
Corn thas been cultivated for seventy years upon this soil, which never has ieceived dung or any other kiild of manure ; it is, however, occastonally fallowed. The subsoll retans the same composition as the surface soil for a depth of six to twelve feet, so that it may be considered inexhaustible: When one portion of the soil is rendered unfitted for use, the inferior layers aro brought up to the surface.
Surface soil of a field, in Germany, very remarkable for its fertility. It has neyer been manured or allowed to lie fallow, and yet has produced for the last 160 years the most beautiful crops; thue furnishing a re $\rightarrow$ markable example of unimpaired fertility: 100 parts of the soil consisted of:
Coarse and fíne ciliccous sand wihh
a little magnetic iron sand.....
Earihy matter......................
350
$\begin{array}{r}650 \\ \hline 1000^{0}\end{array}$
100 parts of the same soil conlamed:
Silica............................ 7,200
Alumina............................ 8,514
Peroxide of iron. ..................... 6,592
Peroxide of manganese............ $\quad 1,520$
lime ................................ 0,927
Magnésia............................ 1,160
Potash, principally in combination
with silica........................ 0,040
Soda; idem..........................: 0,040
Phospherric acid, combined with
lime and iron.................. 0,651
Sulpliuric acid; combined wilh lime 0,011
Chlorine (in common salt)... . .
Humus soluble in alkalieg......... 0,540
Nitrogenious matter................ 1,108
100,000
It is apparent from the above , analygia that, notwitlstanding the long period which this land lias been cultivated without manure, it still rẹnains vẹry rịch in-matuérs adapted. to the nutrition of plants:
Licheg gives many more analyis of sqils, made in 己ifferent parts of the globe; to ghow the ingredients of which they consigt,arad. their different degrees of fertility; bnt.we think it unnecessary to copy them all. He concludes the chapter on the $\#$ Chemical

Constituents of Soile," in the following Words:-
" In the preceding part of the chapter we have inserted a number of analysis of vari. ous soile, as well as the conclusions deduced from them, by means of which the farmer may be enabled to ascertain the manures best adapted for each variety of soil. By infpecting the amalysis of the storile soile, it will be apparent that it is in the power of chemistry to point out the causes of their sterility. The genetal cause which conduces to the sterility of soils is either the absence of certain constituents indispensable to the growth of plants, or the presence of others which exert an injurious or poisonous action. The analysis are those of Doctor Sprengel,-a chemist who has unceasingly pocupied himself for the last twenty years in endeavouring to point out the importance of the organic ingredients of a soil for the development of plants cultivated upouit.Io considers as essential all the inorganic bodies found in the ashes of plants. Sprengel has shown that mineral manures, such as ashes, marh \&cc., aftord to a soil alkalies, phosphates, and sulphates; and further that they can exert a notable influence only on those soils in which they are absent or deficient. In a former chapter I have endeavsured to point out the importance of consid*ring these constituents as intimately consected with the vital processes of the vegetable organism, and have shown that the different familios of plants, contain unequal quantities of inorganic ingredients. This subject is of much inportance; for the application of manures must be regulated by the composition of the plants which are cultivated upon any particular coil. Still the composition of the soll must always be hept in vitew. "Thus' it would be perfect extravagance to manure certain soils with ashes, inarl, or gypsum; whilst, on the contrary, these compounds would produce the most benéficial results on other lands.
in a former part of the work, tho princir pal action of gypsum upon vegetables was ascribed to the decomposition and fixation of the carbonate of amonia contained in rainwater; but gypsum exerts a two-fold action. The power of decomposing the carbonate of amonia, and of fixing the amonia, is not peculiar to gypsum, but is absorbed also by other salts of lime, (chloride of calcium for example). But it acts also as a sulphate, and -when-useful as such cannot be replaced by any'other salt of lime which does not contain sulphuric acid.
"Hènce gypsum can be replaced as a manure only by:a mixture of salt of lime with ampniā and a salt of sulphuric acid. SuJplate of amonia can therefore be substituted for 'gypsum, and exerts a more rapid and: effectual action. In France, sulphuric acid has been poured upon the fields after the removat of the çrops, and has been found to formia good manure.: But this is merely a process of forming gypsum in silu; for the soilh upon which jt is applied contain much lime, which enter's jnto combination with the apulphuric zcid. It would certainly be much more advantageous to form sulphate of amomia by adding the acid to putrified urine, and to apply this mixture to the field."

Aisreat means of happiness is a constant employment-for a desirable end, and a consciousness of advancement towards that end.-Selected.

Americai and English Womex ConTrasizEi=Our girl, with her delicate features ind nymph-like figure, is far more lovely in her first freshncss than the Eng-
dish; bui the Engrish woman, in her ripeness and full development, far surpasses ours. She is superb from twenty to twenty-five.-Miss Sedgwich.

It is unquestionably true that wealth produces wants, but it is still a more important truth that wants produce wealth. Lach cause acts and re-acts upon the other; but the order both of precedence and of import ance, is with the wants which stimulate to industry; and with regard to theec, it appears that, instead of being always ready to second the physical powers of man, they regnire for their development "all appliances and means to boot." The greatest of all diliculties in converting uncovilized and thinly peopled countries into civilized and populous ones, is to inspire them whth the wants best calculated to excite their exertions in the production of wealth. One of the greatest benefits which foreign commerce confers, and the reason why it has ahuys appeared an almost accessary ngredient in the progress of wealh, is its tendency to inspire new wants, to form new tastes, and to furnish fresh motives for in-dustry,-Mathus's Politital Economy.

It is by availing themselves of all the aids of modern science, by laying hold and giving a practical direction to every new scientific discovery, that the manuiacturing and mechanical arts have so rapudly advanced in Great Britain. But agriculture, slow and deliberate in her movements, looking backward rather for counsel and drection to the times and ways of her forefathere, than either to the opinions and demands of the present or to the hopes and prospects of the futare. Agriculture has availed herself but little of the ealargement of modern knowledge. She has even rudely repelled the cultivators of science when they presumed to intrude upon her domain- Blackwouds' Magamine.

Such is the constitution of the human mind, and so marvellously is it adapted to the changing circumstances in which the race is placed, that there is no situation in which it is not qualified to reap felicity; and all the evils to which at one period it is sub. jected, are compensated by sources of eujoynent which are then, in a peculiar manner, placed within its reach-Selected.

Matrinonad Statistics. - A curious compilation. not yet published, bearing the title of Paris Moral, contains the following matrimonial statistics of Paris, in 1837:
Wives who have deserted their husbands 1132
Husbands who have deserted their
wives.............................. 2348
Couples legally separated........ 4175
" living in open variance. ... 17,345
" livmg in secret variance... . 13,279
: mutually indifferent....... . 55,140

* reputed happy.............. $317 \overline{5}$
" nearly happy..... . . . . . . . . 127
* truly happy ................... 13

96,834

Extraordniary Raid -wax Traix. On Thursday the 14th of July, the six o'clock train, A. N., from Paddington to Taunton, carricd the immense and unprecedented number of 2,115 passengers! the rreat attraction being tho Agricultural Mecting at 1ristol-Berkshire Chron.

POETRY。

## 'IHERE'S A CILARMIN THE WOODS.

## BY JANES STONEMOUSE.

There's a charm in the woods at the beautiful Jawn,
When the bright sun is warnung the earth with has ray;
When dew-drops, like diamonif, ensparkle the lawn,
And the lark high in air seemes topelcome the day.
Then sweet'is to rove where the riydet streams
Where for ever it singeth ita sweeriltule song;
Oh: the breath of the morniug mogt exqusito seems,
Perfumed by the flowers in floating along.
There's a charm in the woots when the daylight declines,
When the hun of the village no longer is heard; When the glow-worm's pale lamp on mossy bank shnes,
And ctilled are tho voices of bee and of bird:
Then wander with me: for, though morning mav waken
The heart's gayest feelings of gladness and joy, At the twilight alone carth's care are forsaken, And we think that such moment poesess no alloy.

## THE TMAE TO PLAY AT CARDSS:

When Scott's wild whtchery is o'er, it a When Byron's verse can charm no more; When Milton's heavenly muse we sebuh, And Shakspeare's magic light is out; When Ratcliffe, Smollett, Irving, Fitiding, Have lost the power of pleasure yield ${ }^{\prime}$ ) When Muse is no longer blended, And Humour's stories all are ended; When Sense, nor Wit, nor Mirtil regandy, Then is- the time to play at Cards y is?

## USEFUL RFCEIPTS.

To Prevent Horses bena Teascd by Flies.Take two or three small handfuls of walnut leaves, upon which pour two or three guarts of cold water; let it infuse one night, and pour the whole next morning into a tea-kettle, and let it boil a quarter of an hour; when cold it will-be fits for use. No more is required than to moistent a spouge, and before the horse gocs out pfithe sha. ble, let those parts which are most irritable be emeared over with the liquor, namely, between and upon the ears, the neck, the flank, Ec. Not only the lady or gentleman who rides out for pleasure will derive benefit from the walnut leaves thus prepared, but the coachman, waggoner, and all others who use horses during the hot menihs.

To Eradicste Corns.-Take a small pupce of finnnel which has not been wasted, wrap'or bef it round the corn and toe. One thickiness will bu sufficient. Wet the flannel where the com is night and morning with fine sweet oil, Trithen tho tamel weekly, and at the same time pare tho corn, which will soon disappear. *THeds; Intelligencer.

Courage.-A traveller, relating his udventurti, told the company that he and his servant hiad" made fitiy witd Arabs run; which, startling them, he cibserved, that there was no great mat. terinit, "for," says he, "woran, and they ran Infter us."

# GILSON'S PATENT STRAW CUTTER, <br> And Van Norman's and American Patent Cooking and Parlour Stoves. 



ON $\mathbb{S} \mathbf{A} \mathbf{L}$,
1,200
VAN NORMIN'S CLLEBRATEL COOKING, PARLOUR, BOX, PLATE, and DINING ROONE STOVES.

Five Sizes, Van Norman's Patent Coohing Stoves, No. 1 to 5.
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Three Sizes, Van Norman's Nunturiel Marlour Stures, 1 to 3.
6 Plale Stoves, from Twenty to Forty Inches.
50 Dining Room Stoves, with Oven on the Top.
1,000 aingar Kettles, from 10 to 100 Pails.

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50 Gilson's Patent colebrated STRAW CUTTERS.
100 Tons Iron, consisting of Low Moor, Sweuish, Bauks, and English Hoop and Sliect Iron.
100 Casks celebrated "W." Hurse and Canada Rose Head Nails.
30 Hadfield's and Suhderson's cuicbrated Awvils.
50 Common Anvils.
30 Smiths' (English) Bellows, from 15 to 40 Inches.
;0 Casks Logging and Cable Chain, "Bank's Iron."
30 Casks Dedk Splkes, from Four to Nine Incher.
100 Duzen best Cast Stecl and Common Spader and Shovels.
50 Boxes Canada Plate.
19 Cwt. Sheathing and Brazers' Copper.
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