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TMAE OURTVUATOR.
"Agricuture ta the grest att whth every peraeminent ouglit ro profect, curry propiletor of iquids io practice,


## Towito Ociólber, 1842.

We consider it neediess to occupy the columns of this Periodical with the details of the common business of practical agriculture, with which most farmers are perfectly well acquaintrd. In making selectionz wo have enlëavoured to give that infurmation izat is not accessible to the m majority of our Subscribers. 'they haye ieen generally made from The Mark Lane Eif. press, Rarmers Journal, and the Journal of the Royal English Agricultural Society = bitherto from the frat hipned paper more than ainy other, as it was oddy latcoly we fad access to lute ocikers. We hope the selectivens we tave mado from The Mark Lane Exiress were indicioubly cioten, and convesed rete and uscfil inforibation todur Subscribers - veryfew of whon, we are well sware, had ofportunities of seeing that excellent ngroicultural joqrnal. l'rom newly whblished works, that are not in uchands of many farmers in this country, we bare also made selections. wied do notece why tarajerp who desire it , should not have an opporturity of icading aome of what is.pubished lately on the scienco of agriculture ; apd togratify uibis docire, we shall occasionally, subait selactign from such works, that wo hope will be found to possess some intercst for most of our_Subscribers. Such selections we concecivo more suitable for an agricultural journal, chan many which necupy the columins of papers pub. lahed with this tille. Jye trust that we and suf.
 cnablo sis, making selections, to distinguist between with meory and such improveinents as mighe be uscully and profiably introduced, and we shali, ,herefore, confino our selections and zccommendationk to what shal! bo usculul and in. tcresuing to knoyy, and posequibe and proutable to pracice. .Yyc may not hitherto have given wl our Subserifers perfiect, satisfaction, biboush we cestanly have curcayyurced to do so to tho best of our. jydgment:

When wo undertpon to cult whis Reried,cal, we smatedus une Subscribers that, from pracieal expenence in the epld rountry and in Oannda, for a. peripd orad ycars, vo.wero convuted. diat the nobtapproped system of agnculkuro pracuced in the Briuth Lales, would, be foyph, on urial, to be


proportion-h has it wonld not le prudent or ne. cessary here with our present thin populaijus. In this opimon "estill continte to be firmls per. shaded, and shall not after it untal the English system of agnculture has freen fairly and fully trsed and shall fand ot success. In the cultivarinis of itreat in particular, that is consideted the staple produce of Canadia West, we take upon us co say, that the more clusely the Engish an.' proved mode of cutiovaturg this gram is finloned in general, tife nume certsiaty will there be of obtamings a good and protitable produce. 才ve never expected, however, by any thing we could write as recomblend, to unduce persons who are alteady perfectly sutisfied with their own present system of nyriculure, to change any part of it for another systen. 'lo such persons we would say, by ad means pursuc the system you are acchatomed to which produces you satisfactory re. sults. If you obtain all you desire from your land and labour, go on and prospecr an soui own way, we do not presume to mturfere with your pracuce of husbandry, pravided yud do not allow by your practice, permicotis weeds to grow and marure their jeeds and scatter them far and wide ovar your meighbours' lands, who mas wish tu foldelv u different system of husbandry, that wall rot ation any plats to grow in their cultivated fields, but such as they have sown and plablet in them. Farmers who may le prefuriced a la. vour of their oun system, are not justified in continuing it if it germats the grow tii adel prepagiation of pernicious weeds, and iends to produce discase and vermin, not onty in !lleir uwn crops but in their neighbours. Any farmer who per mits, by his system of agraculture, injurious weeds to matute thear sacels and scatter them over the culatated soil of the country, ja gatity of a great musuce to all industrtous turmers who are atatous to licep ther lands clean; and as the taluse of great discredir 10 Canadlan agricylimi. Disapowing as we do, any pretentun bo pistruct by our selectuons or nur own sugbeshuis, athose who require no instustion, we may be fictmited to submat our deas fur thic considetation of dius who feel as wo do the greatest satisfectiun in reading any tiung - and we may say, almost every tiung-that is wnition on alie sabijcut of liae science and praciace ol agraculture. It is ruc, we may read much on dhese sulyecis that mat nut be sery uselul, dut mexicatheless we may fird some saluable anstrucuon occarionally, that will more than sepay us for the tronble of all we hase read. We hope that Subecribets :0 inis Perind; cal mas find it so ; that they :tay occajuma? mectan its colamas some mformatio of tome tons that may be useful to the th, ond a onyornento in some dergrea fu. the troude of ifading. Tity. ong upon the indulgenco of our Sulisrribons, we shall do all in our fiourtiogive satisfirtion. JYeniay bo wlicn mataken in vur ciew, and whea weare, yo bez thoso uthe prove us to be in
crror, may communicate their own opishins to 14. We shall always be willing to gite usefild mfurmation from thuse who have oppesite vievis from charselves, All we desire is that The Beit.
 jusuch a hiamur, as to promoto the inprove: thent dud progerity of ngéculturt: in Britigh North Anscrica-and to effect this purpose, we shall submit the most approved modes of cultivat tion practiced in our father land, te the beist agrit: culturists on carth, and who ohtain the largest and most profitable rcturns from land and labour: If tarmers wifl not follow the example of their brutherfarmors in the British Isles, it shall'uat be our faul. If they san do better we liaverifi objection; on the cohtrars; ive shall rtjoice:nt it. It cannot be bepiected that we should imato experiments oin every plant we recommend tur culliartion, and eserv subject we subuit fotrconz sideration. We have, however, 'zdd jtiuch te: gadd for our chameter as a practirat atriculturist; to offer any recommendation ot sumgestion ihaí would be inconsistent with tife pretensions wo have anowed to altat chaimetit. Ohber farmers have just as reach eught to be at the expense, and incur the nasli ot expermaijus as, wo have. If they have put contidetre in the reasonathoness and practicahny of our sugerstions anid recomimendations, let them reject dseth.

## SDASON MBLERFII URKS.

Muth of the scason fir sowing wheat las liecta unfinvoirable. From the tenth io the tuenty: fist of Scptember the rans yerc melesannt, ac.
 gecn swas sumer die latter jucriod, which will nocrase truch against the uest tocir's ctop, un: less the autumu prove tery finofor the growth of the platis. Fpilug wheal, susn on sumber: f.llowed iand, is a much more certain crup than wintry theat, if the latter le not sown in good scongon and in proper conchtion.
 Kio Sarmer should per hate his serds. Cloversecd is the most prontable crop thas can be rais. ed on lands sumable for its cultijn; an the labour. of dressing is cumporatiacly hght an thas age of maduner. It licie are no clover mills in the neimbonurbinit, the chaff wioch conains the sedid mav the passed trice ibrough a colomon thansh. wis machane, whels intasaina wa'. cyst, yery hulo latour or as ante. and will be ay..efe jual to the best impurred zitill.

We mjght rultivate with profit, in Westermr Cimadi, sufucsent tor our uwn eonsumption, aud.
 ann. I niikhentry fille, a frw yeare sinco: unld Linu: worth of cloveroced, ineing the tro: duce of the sacond crop.ot ten acees; the first
 per aute.
'fhe last tion werks in the'month of October:



 to ona well orgabzedigaran. - Latals ploaghed m:


 plough or bpatip, s) that. incren will be no pusesbin. tiy ot ilia land beand ceuycfud wath sutfoce-wates:


CULTIVATION OF WHEATIN ENGLAND.

In England wheatis not often cultivated by good farmers without tho application oflime. We be. lieve lime is as necessary for this crop in Canada as in any country, and would be productive of as much bencfit to the crop. The most npproved mode of culivating wheat in England at present is in drills, which are regularly hoed once or twice, and all grass and weods completely rc. moved from tho crop. Sowing in drills always insures a woll puiverized and clean state of the soil previous to sowing, because otherwise the soed cannot be sown in drills. If it be admitted that a crop of wheat, sown in drills, and kept perfectly clean of grass and weeds, with a freo circalation of air, by means of drills through the growing crop, will be hkely to produce a larger roturn and better gram, than a crop sown broad. czot where grass and weeds may grow, why not oultivate in drills? If it is not an object worthy the attention of the farmer to prevent the growth of any plant with wheat except itself, we know not what may be worthy his attention. The es: pense of hoeing is objected to this mode of cultizon. We say in reply, that one or two bushels por acre-will pay the expense of one or two hoe. ings when men are accustomed to the work, and one hoeing would be sufficipnt. We know not any matter more descrving the attention of the farmer, than the checking or removal of weeds from the arablo lands, and by no means can they be so effectually removed irom corn crops, as when they are sown in urills. Though we state this as a general pripciple applicable to cultivated crops, we admit, nevertheless, that no grain crop except wheath. can $\mu$ nder present circumstances of high wages and low prices of produce, be cul. uvated in drills, Barley perhaps might pay, bus es we would fecommend the seeding down for grass with this crop and with oats, neither could conveniently be sown in drills. Pcas are a crop that we would rejoice to ece cultivated in drills, wherever the soil was in a state likely to produce a large quantity of weeds with the pea crop, In three-fourths of the growing peas we have seen for the last few years, it was almost impussible to distinguish what sort of crop was cultwated, in consequence of the great quantity of weeds of alf descrptions, parycularly thistles, that yere growiag with the peas. Peas cannot be weeded unless sown in drills, because the plants when a litile grown, fasten themselyes to eyery other plant growing near them; the consequence is, that the weeds repoain and matitre their seeds, and scater them over the soil before the peas are rige or cut. Pcas are an excellent crop to prepare jand for other crops, but not if a large guaptity of weeds are allowed to grow and ripen with them and sow their seeds on the soil. We object to every crop that is not cultivated in such * manner, as to pernit the removal and destruc. yion of weeds, before they mature their sceds.Every good farmer must be of the same opinion. Beans, we conccive, would be a profitable crop to, cu!tivate in the English fashion. In Canada East they aucceed weil, whero properly manag. ad, and we cannot understand why uhcy should not succeed in Western Canada. They are considcred the best preparing crop for wheat, and the land must ve clean if they are managed propierly. Some youre they are inclined to smn
to stalk. Where this is the case, a foy inches of the extreme top should be cut off with a seythe or other instrument, and this would ciseck the growth of suraw and tend to ripen the grainBeans are generally a fair price in England, and would pay for exporting to that country. The cultivation of hemp and flax should also be in. troduced as articles for exportation buthin secd and fibre. The feeding of cattle and the produce of the dairy, are objects well deserving the attention of the farmer, provided the Legislature will do what is necessary for their prutection and en. couragement. The land that is laid down in grass with the necessary fertility, will always be in a profitable state, becausc it will be constanily in a state fit to produco any crop that is required. Nohing can be more beautiful in country scene: $r y$, than green and fertile fields, producing grass unmixed with noxious weeds. On the contrary, it is any thing but agrecablo to see poor crops full of weeds, and the roads and fences in every direction, fringed with a luxuriantgrowth of pernicious weceis, seeding the country for a new and increased produce of the samo dezcription. Un. culuvatrd spots of the most fertile land, is also sure to be occupicd on overy farm, with a crop of wreds of large growth. We lose all patience when we sec the country, in every direction, disfigured by them, and the best qualities of tho soil extracted from it by those strong and vigorous plants. Cultivated plants are unable to comp: pete for their food, with neighbours that have so much larger and stronger roots in the soil, and hence, in proportion to the size and strength of weeds, is the weakness and poyerty of the cultivated crop in which they are allowed to grow. We would observe, in conclusion, that with re. gard to the cultivation of wheat in Canada 3 Vest , we do not recommend any change in the mode of cultivation, to thase farmers who already rase clcan and abundant crops, free from rust anc the rayages of vermin: We are also aware, that in new lands and those that are not perfectly clear. ed, drilling crops are put of the question. We only recommend now modes of cultivation to those who do not, by their present system, raise clean and abundant crons of wheat. To all such we do recommend a change, which we hope they will find beneficial. The free circulation of air through the growing crop, that can only bo ootained by drilling, is of great benoft in pre: venting disease; and the stirring of the soil by hoeing between the drijls, greatly promotes the growth of the crop, and checks the ravoges of vermin, who generally lic conceated about the roots of the crop, and the grass and weeds that may be permitted to grow with it.

Frost our residence being in Canada East, and in the centre of that part of the Province whero the falure of the wheat crop has produced such disastrous consequences to the farnere, we have parhans had ous attention too much occupicd by our ownsection of the country, and our observa. tions accordingly had more parécular reference to these conseqnences and the uecessity for their remedy, han may be satisfactory to our Subscrib. ers in Western Canadn, who baye not, tortupate. Iy for themselves, been plagucd with the wheat fly and the destruction of the wheat crops. We hope our Subscribers in Wcatcm Canada, will howevicr pardon un for occupying so much of

Thi Cultivator on this subject. We are con. fident, that as they are, favoured with abundant crops of whent, that are safo from the ravage of insects, they will condolo with their brothor. lamers of this part of the Province, and be onxi. ous that a remedy slould bo provided, if possible, that would ether cnable the farmers of Enstern Canada again to grow wheat, or substiate soma other crops that would make up to them-for thp loss of wheat. If our friends in Canada West aro fortunate and successful with their crops, they will, wo are sure, be generous enough not to find fault with us for giving so much of our at: tention to a subject that greatly reduces thè pro. ducts of agriculure in Canada East. We stated before, that the loss sustained by farmers in Enst: ern Canada, for the last eight years, by the failure of wheat, was not less than four or five millions of pounds currency and we believe we did not exaggerate; no wonder, therefore, that we should fecl the subject to be of the greatest consequence to ua, and constantly, urge the nepeessity for in: quiry into the matter, in order that eonse mea: sures sbould be adopted, to save the, farmers hera from the ruinous consequences of the loss of theyr principal crop.

## ENGLISII AGRICULTURE:

From our own Correspondent.

Losdan, August 3rd; 1842:

My Dear Sir,
Although detailed acceonnts of the recent metings of the principal Agricultural Socicties of Great Britain, will doupbless have reached you ere this, yot conformably to your wishes, I send you hiorewith a condensed account of the proccedings, syited to:your lamited space, accompanied by such passing remarks and re. flections as occur to pee, and which I trust wil! proze interesting to pour readors.
The annual meeting of the Royal Agricultural Society of England, was held this year under yery favourable circumstances. The splendor and magnificence of the mepting and its general ar: rangements, as well is the large concourse of company in attendance, markiclearly the high state of prosperity to which the Society has now attained. The demonstration affords abundant cvidence that the farmers of England are actuat. cd by a laudable spirit of emulation, and that they have successfully determined to keep pace with the improying spirit of the age. The advance. ment of agriculture is a knowicdge which has been justly considered ond of primary import: ance cven in the carlicst agch of antiquity, and in our own not only esséntial to existence, but the nursing mother of those arts of civilization which have flourished and filled Europe with their benefits. The prosperity of England (and indecd of every country), is intimately connect. ed with the sueccssful prosecutuon of agricultaral pursuits; for they supply the basis of our home trade, and find employtment for the greater past of our population. An amozing deal has of late becn done towards the improvement of agricul. ture; jt has been reduced to some certain and uniform principles; philosophy has labourcd to derelopo its capabilitics; the nature of boils and "
 cd and carefully explained; many nesfulexperis.
ments have been tried and succeeded; and the Important discoveres in chemistry and mechaniçal inventions of a nost useful order, have omi.. ficntly contributed to expedite te progress. Of thes improvement we haye abundant proof; the face of green fields; the broad cxpanse of pasture and arable which stretch far and wide and form so many far landscapes around us-ithe fattle, more perfect than those which occupy the canvass of Claude- the inplements of rural in. dustry-the labours of the hitsbandman, all testify to the modern trumphs of agniculturel science, and the great benefits which such socictics havo wrought here and clsowlicro for the country.The adyantages, the absolute necessity in fact, of these improvements 'and' discoverics, are obyious to all: as nopulation progresses and the area of the coutitry becomes more and more occupled, to kecp pace with and provide fur the growing consumpton of this increase, 1618 neces. bary to employ ath tho means that scienco and experience place within our' range, to render the soil more productive.

The progress of the society was well described by Mr. Iandley the President, who at the meet. ing, obsérved:-"" I rejoice, however, to tell' you that the society, for whose success I certainly rook a very deep interest at the period of its foun. dation, now numbers among its members no fewer than 6,000 of the y comanry of England, every one of whom necessarily feels an interest in the great object that wo have in view, namely, to augment the means of human subsistance. 'It our society has done nothing more than this, it has at least nade agriculture fashionable. Wo have in every quarter of the United Kingdom, gentlemen who are anxiously looking. out, to test any experiment that we may recommend, or that has been deemed worthy of our consideration. We he:e in every part of Ẹngland, gentlemen who are carticstly testing the ruality of the soil, making the best rotation of crops, determining the best description of secd.wheat for different soils; in short, applying theniselves to a careful consideration of all those operations of agriculture, which practical men know to be so essenual to success. But it is not in practice olone that we are reaping a benefit; we hoped to bring science to bear upon the pracucal agriculture of the country, and in that we have been eminently successful."

Although its establishment was suggested by the kindred in situation in Scotland-line High. land Socicty-and it may indecd, be sạid to be the ofspring of that socioty, it has far celipsed its parent in the splendor' of its mectings, the num. bers ot its patrons and its nembers, and the in. terest it excites, not only in its annual assemblag. es, but in the quieter course of its useful avocafions It is not fortunately, on the mere magnitude and splondor of its meetings, that the Royal Agriculturil Society restsits claim for the support of the agriculturists of Great Britain Its claims for.patronage rest upon tho interest, zeal, and energy which the exhibitions excite amongst the agriculturisus, and which work with such a salutary effect in pronoting the march of mprovement in every patt of the country where the meetings are held, or whence the farmers attend them; and upon the judjeious system of holding weekly meetings of the Council in London, to recoive reports and papers upon every point of agricultural knowfcdge, to stimulate its members both to communicate their own cxperienco and to send that of others through the medium of the Spciety's Quarterly Journal, and thus to set the Whole agricultural body both thinking upon and
working in the great employment of providing the food of the cullntry, "ith redoubled activity and emulative zeal. But $n$ truce to digressionI have alrendy occupied too much of your valua. be spaco with my prosnic otbservations, and must now procecd to detail in brief the actual business of this mechng. The arrangements of the suciety were dictated throughout with much liberality and judgment. Ample andextensive notice was given many $n$ ontles previous, of the regulations, the premiums, \&e., for the exlibition of stook and implements, and other opjects of compctition. The resule of dio labours of the Gencral and Lo. cal Committees gave much satisfaction.
The meeting commenced on the 13th of Julyon which day arechexete and olegant banquet way given to the Council by the Mayor and Corpora. tion of Bristal, at the Merchants' Ilall. At an early period of the week the giesta began to throng into the city, and accommodation could scarcely be found for the immente numbers ar. riving from all parts of the kingidom. The Duke of Cambridge was among the visitors; and iheir number included minst of the leading agricultur. ists tilled and untilled.
On Wednesday the Council dined together at the Victoria Rooms, Clifton, a fine now building, the usc of which was specially granted to them by the proprietors. " In the course of the day, a ploughing match took place, for which forty plougliá were entercd, ynd a trinal of neswly invented machines and anricultural implements tras held; there was also a very fine cattle show.

Mr. Smith of Deanston, the inventor of the Subisoil Plough, delivered a lecture on Drainng, which you will find reported in The DIark Lane Lxpress of the 18 ih ult., which, I may zemark by thè way, contains a full and complete account of all the procecdings.
Thursday the 14th of July, was the grand day -when tho attendance of membera and visitors was most numerous. The first business of the day was the great show of atock ind implements. A lecture was then delivered at the Bristol Institution, on "the morbid anatomy of Domestic Animals." The grand meeting of the members of the society took place at 4 o'clock, in a pavilion erected for the occasion; between 2 and 3,000 guests sat down to zable. On Fraday the 15th, the sale of stock in the show-yard commeneed, and a gencral meetingry of the members and Council, for business purposes, closed the proccedings.
In connection with this mecting I would especially call your atention to the excellent observa. tions which fell from the Amctican alinister, the Hon. Mr. Ererett.

England has always had the character of being. an excecdingly proud nation - but I tbir.k she may well be proud of her successful efforts in promoting the interests of ngriculture,-chiorts which have commanded for her the admiration of other countrics-mans of whom are now nobly emulatiner her zeal, and enterprize, her energy, industry, skill, and perseverance. Q(her countres may be blessed with more bountiful sonls, more genial climates, and more luxurinnt vegetation, but the Brtigh farmer hits batted wath all. the adverse circunstanees wath which he is surrounded, and the fruts of his labour are evident in the garden lusbandry of our land-in the rich crops and abundant harrests which ho rcaps.England may well then be proud of all she is, and bas been and will be. She is proud of her wealthy farmers and ycomanry, of her cottage homes, of her honest peasantry. She is proud of her fino stock, of her unnvalled breeds ot cat.
her success in introductng new fertilizers to racruit the suil exhausted by over cropping. . And she may challenge the world to compote with hot in any one departinent of agriculture-be it, ih the rearing and hreeding of stock, thie tillage of the suil, the successiul growth and culturo of crops, the occuprtions of rural life, or the opplit cation of skill and science to the varions agricul. tural implentents. Far be it from me to boast vain gloriously of these acquirements and this success. Other nations are equally capablo of successfully carrying out the various pranches df husbandry and rural cconomy; and glad slall f be 10 sec them more zealous and indefatigable an the promotion of agticultural mproyeenent, and competing successfully with Great Pritain, ful: lowing step by step in the race, and they migy perhaps hot dutstep lior at the good.
Several important mectings have followed that ut the Royal Agncultural Sucioty of Engliand.
The Insh Agricultural fmprovement Socicty held its first annual mecting and show of etock at Cork on the 90 th of July. The meoting was one of the most important that had ever taken place in Ircland, as man'y of the lgading nobility gentry, and agnculturists from England and Scat land were in atendance. Deputations from the Royal English Agricuitural Society and from the IIghland Society of scoutand,' licaded" by tiá Marguis of Downshire"nd the Mrirquís of Aberf corn were in attendance. "The Council dinimr was held in the Clarence Rooms of 'thélnyperiat Hotel, Lord 'Viscount Bernand, M. P:', tóok li'h chait, in the absence of the Duke of I einster, ithol Prasident. Lord Viscount Doneraile filled the. Vico' Chair. Some excellent speeches were made on' the occarion.
On Thursday the 2ist, the members and. hisitt ors, abliut 1,000 in number, dince togethet in, the Corn Exchange The Marguig of Downis shire in the Char Nearly $£ 200$, wos nowardged in premums for the introduction of new and jmats proved breeds of catte, agricultural implementes, Ec: Ahout fyoo: was also applied towards' premiums for the toral Societics. ,Tliese prizes were confined exclusively to small farmers hold: ing only 25 acres of land, and medals wicre givin to tho larige proprictors. This society has at' prèt sent an annual revenue of about $\pm 2,000$, besides ${ }^{\prime}$ a large sum vested in the funds: The Duchess. of Léinster gave a grand assembly whiclf'closed the proceetings
There:was a very interesting meeting of the Northmberland Agncultural Society:s onit the:. 28th at Belford.
'Tho Highland Socioty of Scolland heldite mecting on Mondsy the 1 st Instant, when thera was a dinner of the Comfaiteo at the Waterleo Rooms, Edinburgh.' The great caule show and dinner were to talse place yesicrday. His Grace' the Duke of Richmond, President of tioc Socicty ${ }^{2}$ in the chair, Ifis Grace the Duke of Roxburgh;' Vice President of the Socicty; Croupicr. The procecdings of the mecting and ilie resule tof the"

 larige and important one in also now holding: 3 cr.ct
 that I inust hasten io a conclusion; and inv ioc marks upon tho'cropa, \&tc., must neciessarily be very brief.
The harseat is geting in, in maney partwiof the country, and wall soon become very gencral-a On the whole the weather has been fine. On the 27 th. the country was visited with a tremen.
long contiuued fall of rain, which diu partial da. mage in some places by lodging the henvy eared grain. The accounts from all parts of the commtry scem to concur in the opinion, that the entire produce will hardly amome to on usual average throughout the kingdom, this arises chiefly from a defciency of plam which was enrly complained of, and which the consinued fine weather has not been able to overenme. The supplins of fureign whent although they have slughty decreased are atill hberal.

Tho Farmers' Muguzine for August just pub. lished, contains a very intercsting momoir and portrait of Robert Bakewell, well known as the originator of the Dishley or New Leeicester breed of sheep; being the first of a serics of biographics of eminent Dritish farners.

I am yours' very traly,
P. L. SMMMONDS.

London, August 19th, 1812.

## My Deir Sir,

The Yorkshire Agricultural Socicty held their fifth' anmal mecting at Xork last week. The sum of $£ 650$. was cxpended in premiums. The Council dinner was held in the Guildhall on Tuenday, Eatl Spencer presiding in the unavoid. able absence of the President Lord Wharnclife. The great dinner and meeting of the mutmbers was held on Thursday, wheu about 800 persons were present. The show and meeting altoge. ther was much supetior in every way to that of last year. Some excellent and appropriate apeeches were made on the occasion by the ne. ble chairman, the Earl of Zetland, Lord Fevasham, Lord Wenlock, Sir John Johnstone, Bart., M.P., itlr. Milnes, M. P., Mr. Stanfield, M.P., and othere Richmond, Thirsk, and Doncaster were the competing places for the next show, each offering $£ 150$. donation, their town hall for the meeting and a field for the show. Doncaster was selected.
"At the 6th annual mectin's of the East Riding Agriccultural Assoriation recenty held at Beyer. léy, a hog pig of the Lord Wenlock race, bred by Mr. $\mathbf{R}$. Moore of Brandesburton was exhibited. This surprising animal, athough not two years old, measured 82 inches trom poll to rump, in girth 80 inches, stands 41 inches, and weighs pearly two hundred stones.

A portaible anw mill exhibited at this meeting by Mr: Crosskill, agricultural implement maker of Beverlay, attracted many inquiries.

The sinnual agricultural metung and general show of livo stock, implements of husbandry, roote, seeds, \&ec, of the Fighhand and $A$ gricultur. al Society of Scotland, commenced at Edinburgh on Monday the list hustim, and lasted the entire week. The exhibition was of unexampled exwent, being larger than the famed show at Ber. wick laat year, which was the greatest the Sncic. sy had hold up to that time. The amomt of atock, dece., ontered, was greater then upnn any tormer occasion, connprising upwards of 1,100 anjomala, becides a great varicty of implements, sc., \&c.
The Edinburgh papers whicil wo lave receiyed ail contain full and excellent rciorts ot the precectings. - Tho pullic show, wouk phace on T'resday; and at one period it is shatej, there could not have been less than 20,000 motruduals in the gard. Themoney collected for adnuission to the show on this lay onl $\gamma$, antounted $£$ Unider.
stand to upwards of $\boldsymbol{x 1 , 3 0 0}$., the largest sum ever drawa on any similar oecasion. Tho near. ese appronch to it was at Clasgow, whero upwarda ol 8800 was collected. A pecuhur fo:ture in the exlatition was a gallery erected fur the ladiea, having in funt a raised platform, along which the prize animals were poseed to uratify the fuir visiture.
About 2,000 persons were present at the grand dinuer of the Suciety, wheh took phace under the presidency of the Duke of Riclunond. Whe rrincipal speakers on the occasion were the Earl of Mansfield, the Duke of Roxburgh, the Earlof Roseberty, \&c. A large deputation attended from the Irish Agricultural Improvement Societs: The Chairman arged upon the Society the ad. vantage of distributing gratuitous coptes of the Transactions and Journal among tho mombers after the manner of the English Agricultural So. ciety. A lecture was delivered on Monday before the members by Dr. II. R. Madden, "On the condition of the soil at seed time as influenc. ing the future prospects of the crop," and an other lecture on Wednesday the 3 rd , by Mr . Hyett of Painswick. Gloncester, "On the prac. tice of administoring artificial solutions to the sap vossels ingrowing trecs, in order to improve their colour, durability, fexibiltey, strength, fragrance," \&c., \&c.

In the list of patents scaled last monh is a sin. gular one, viz.: to "dady Ann Vavasour of Melbourne Hatl, Yorkshire, for improvement in machinery for draining land. Sealed 7th July. Six months for enrolment." Success attend the scientific efforts of the ladies of Eugland say we.

The Roynd Agricultural Improvement Society of Ireland, hald ther seeond anniversary meeting next year at Belfast.

Messrs. Blackwood announce for publication carly next monti, a work on "The Grasses of Scotland, containing a scientific description and illusurations of about 130 distinct specimeng, by Dt. R. Parntll, F.R. S. of Edinburgh." Price twenty shillings.
A public mecting was held in the city of Cork the other day, for the purpose of forming an Ag . ricultural Muscum in that county; the idea is an excelient one, and ought to be adopted and ex. tensively acted upion in every county, city, and town of England. There are several central ones connected with the chief agricultural societies si. tuate at London, Edinburgh, and Dublin.
A public monument to the memory of the late Thomas Wim. Coke, Earl of Lecester, one of the greatest fricnds and parons of agriculure the world has hitherto seen, is shortly to be erected. $\Lambda$ bout $£ 3,000$, has already been subsenbed to. wards this laudable object.
The leading farmers and agricultursts of the Kingdom, have also recently subseribed ahout E 100 for a se:vice of plate to W. Shaw, Esqr., Editor of The Marl Lanc Express and Far. mers Tagazine, and one of the projectors of the Roy inglish Agricultaral Sociey, for his zcal ons anm andefatigable cxattons an the cause of agrieulturc.

İ am yours', yery truly,
P. L. SMLMONDS.

A hind refuenl is somelianes as graufyng as a bestowal; ho who can allecriatelite pxin of an ungracious act is unpardonablo unitess he dỗso.

AGRICULITURAL REPORT FOR CANADA EAS'l.

Stwer: our lase Report the weather was not unfa. vourable for harvesumg, and most of the crops are now safely sccured throughour Enstern Can. ada. On new lands far back, and on low swamp lands that could not be soun carls, some of tho oats are yct out, bat fiom tie presont appearance of the weather all will probably be got in sifo. We have seon several small fields of whear of tho varicty termed "Three months' Whent" in this neighbourhood, and though from late sowing, (in the latter end of May and carly in Junc), it hat escaped the fly, yet in every fietd it was contsiderably injured by rust or mildew, and in tho begiming of September, some from this circum. stance was cut down white the straw was green. One small plot, grown, we wero, tohd, from sced. wheat obtained from Smyrm two or three jears igo, was porfectly free from rust, nad having been sown near the end of May, it had escipeca the fly and was a good crop, nearly ripe the Ist of Septeniber. We observed that the straw of this wheat was of peculiar quality, hard and wiry and of a brownish lue near the ear, unlike the straw of our common whest. From its being prouf against rust and mildow, however late sown, this mariety of wheat might be safely caltivated here. The fly will not injure wheat to any extent that is sown after the 25 th of May. The straw of the wheat that is generally growin in Canada is very soft, and liable from this quality to the disoase of rust and mildew. It has this qudlity in common with all other plants' grown here, derived we suppose from hent and it rapid growth. Wheat growiton land afer potatoes ins particular has very luxuriant and soft straw, and generally becomes rusted unless in very dry sea. sons. We belteve the delective quality-softhess of straw-might be renedicd by the application of lime in preparing land for wheat; and if it is desired that our lands should produce wheat. no must adopt a new mode of culivation. It is perfectly clent that we cannot grow good crops of this grain by our former mode of enltivating for it. Draining and liming is necessary in order to have any chance of producing what should bo considered a good crop. It is not a produce of ien or twelve bushels the acre that woold remun. crate a farmer who would cultivate land properly for wheat. In our last English papers, we scent a report of a crop of whent that produced forty. four bushels per acte, raised this ycar on land, that three or four years back, was not worth more than seven shillings and sixpence the acre. This improvement was in consequence of more perfećt draining and cultivation. When we man. age our lands in the English fashion, we may ex. peet something like the same fecults, though per. haps not fally equal to them in every thing. The discase of rist and mildew in whent is ris fatal to the crop as the fly would be, if it affects the crop before the grain is nearly at maturity: In the latter end of July and beginning of Auguit, we generally have that sott of moist, warm, andcalm weather that is so apt to produce tifis do. structive diseaso in wheat: and if it is sown lute, though it should escape the fly, it is sure to bo destroyed. It is in consequence of this riske that we have aliwass disupproved of late sowing of wheat, unless indeed this variety wo have reffrered to may be proof agaiust rust hawever"late sown. Undei cxisting circumstances, thorefore,' we should sow whee that will resist rastand mildew, or procure a varicty that pillate trobor

"Cone Revat" or "German Thicksot:" If we nhould cultivate other varieties of wheat, wo might be able to do so perhaps auccessfully by liming the soil-sowing in drille-and kecping down all weeds and grass in the crop by once hocing. By the manageneent wheat might be sown ently in the fill, and we helieve it would be in ear so early in June as to escape the fly, and bo safe from rust nad mildew by keeping it tree from weeds and grass, and by the free circu. Intion of air through the crop, wheh culirating in drills would give it. If wheat is sown that resists the flo, we ehatl only have to fear the ef. fects of rust upon the crop, and wo think this might be remedied in a grent degree be the appli. cation of lime, by drill sowing, and porfect weeding. As to sowing in the usual way our common varieties of wheat earig in spring, we fear it will only produce cettain loss to the farmer. The los's of a crop of wheat is a scribus one, beennse liẹ best son is generally sown, and the farmer fincurs not only the loss of his land, seed, arel la. Enur, but the proft he might reasonably expect from a crop that the land would have produced. Sowing in drills:and hoeing may he considered soo expensiva, and this mode of cultivation can nhly be adopted on land that is well prepared.We are awnre of All this, and in reply suy, that mils on such lands should wheat be sown, nad we state further, that we have no doube thatson: ing in drills andkecping the crop free of all grass and weeds, would be amply compensated to the farmer, hy an increnacd produce and hetter quali. ty, than he wouk oftain from the common mode of cetcitation. All the farmer's prectution may not be able to preserve his wheat from the dis. case of rust in some sensons, but if he do all that in in his pówer, his crop will lie safc in odinary zeasuns. We have said more on this sulyect than may be thouglit mooessary, but we beleve is so essential to the prosprity of this part of Can. sada, that it skould produce wheat is heretofone, that wa take every opportumity to recommend *xperiments ixing made on new modes of enlis. vation, and the introduction of new varieties of seed. Fvery reasomahir enperiment should ecrtainly be tricd, and if all shall fail, we nust only sarive to do the best we can with other crops.
Sinedour iast Report the potatoe crop has sus exined a check to their growith. On the night of the 9 :h of September, we had frost sufficiont to vestroy flis vines or tops verty gencrally hirough. nit the chuntiry, cxcepe in the inmediate neighhouthood of hontreal, and as much of thio crep was planted late, the produce is not likely to be so large, or of so good quality, as if the tops had rontinued green to this time. On the nigite of the 23:d tre had frost again, so severe 28 to form ice, and potazocs that were green previous to that night, were next day completely whered. We have heard unfavourabie regorts from many patts of fhe country, parucularly where the soil suas of pirong quality, and on lands not sufticient. iy draioed. From theso circumstances we are Ind to suppose, that though the crop may be good in many fidas the average return of pota. toes with not be so abundant is we thought they wốuld be thèlatere end of August. Tlie season has hecenvery favourable for opther raut crops.The pnstures aro. becter than ustal, and dairy produce abundant and at moderale prices. -Mutchers' ment exceédingly low in price. Hay from 10s. to 203. the hundred bundles; Barler, 24. 31. to 23..63.; Oais, 1s. 10.1s. 31.; P Potatocs, 1s. to 1s, 3.1. per minat, ' The orchards are very much sliort of the usual jroduce. Some hnve ne apples wut we belicretucre is a large inpor
tation of fureign fruit. We do not rejurt the price of wheat, as we have unforturatcly none to dispose of.
We perceive by the prices of ontmeal in the markets of the Jritish Isfen, by the latest advices, that a profitable business might be done here in manufacturing ontmeal for exportation to Eng. land. We recommend this trade most particular. ly, and we woild at the same time suggest that the oats be well kiln-dried from which mealis to manufactured for exportation, os it will keep much better in the barrels from been previutisly well dred, and sell beter when it arrives ut its destination. In the commeneement is the proper time to establish a good character for a new article of exporation.
On the whole, firmars have the reason to com. plain of the produce of crops as regards quantity, with the exception of whent. Of course, it could not be expected that large crops would be prodin. ced where the land thad not been properly cultirated for thern, and where areeds were allowed in sob the useful plants of the greater portion of the nutrinent that might have been in the soil.

We shall now, in conclusion, sulnnit a fow ob. servations.
At present the general mode of cultivation throughoura large proportion of Eastern Canada is co definctive, and contrary to the most approv ed practice of hustandry introduced in the Bri. tish Jsles, that it would appear to a stranger as if the land was phoughed, sown, and planted with a view to gmploy men and horses, raller than with any roasonable hope that a crop would be produced, that would remuncrate for the land, labour, seed, and a profit. We have no desire to libel our brother.farmers. On the contrary, we would be disposed to give them all honours, and to wish them all posstble happiness and prosperity. Any who differ with us in this opinion as to the general state of agriculture in Canada East, we invite to make a cour throughour that country in we spring season of sowing and plam. ing. Let them examine well the sate of drain. age-the ploughing-the state of the soil as regards cleawliness and fertility, and whether the proper means are heing adopted to clean it, or give it dertility, if cither be required. Let them see if there is any rotation of crups observedwhat proportion of meadow and pasture - the state of hoth-wad the number of neat cattle and sheep kept in progorion to the farm. Jeet the same individuals visit agnin the same soctions of country in summer and harvest, and obserec, as We have of ten done, the state of the crips, A.c., sesultung. from the system followed, and if they do not agrec, with us in opinion, that the present systen is defective, unproftable, and requires :u be altered for a beter, we shall, indeed, be much surprised. We aumit there are very many far. bers who fullaw the nust approved system as nearly as the returns, which farmung yields at prescat will warrant; but thero are few who conse fully up to the system practiced unon a first class farm in the Eritish Isles.
Man, found Canadn covercal wih a most laru. riant growth of magestic and beauiful irees, of all varieties that are common to these intitudes. He cut then down, carried them nway, burned or otherwise destroyed them. Even their ashes ho carricitaway. He done all this in order that the lond should groir new plants; more suitaple to his puiprose of food and clothing. The furests reere maintainod in all their luxariance of growth by the constant fall of leaves and the decay of old trees. Man cultivated the soil for his own uage and by constant and injudicious cropping
without giving it what it ought to receive in $50^{\circ}$ turn, cxhausted it of all its lertility, and reduced it to that state that it is now more inelined to pro. duce weeds than useful plants of man's cultiva. tion. When we force land to produce a new va. riety of plants from those that were its natural production, it may reasonably be eupposed that there is something for us to do to fit the soil for this change. Draining is the first requisito, and next it is necessary to keep tho soil in n.propor state of fertility, by roturning lo it some ingredient that will replace what we take病om it. Wo may also naturally suppose that some, parte of the soil may require mixture or dressing to make is suitalle for the new species of plants we wish to cultivate upon it. Man should consider afl these matters. It is perfectly clear that thistles and weeds of all descnptions, are the product of his injulrgious cultivation and management.They are not to be seon in the native furest, nor in land when tirst cultivated. If thry subsoquently appear, it is onr duty to check their growth or remove them when they do grow. The natural production of this country, whan man first takes possession of it, proves beyond a Idoubt, the exceltence and fertility of the soil.There may be some parts of the country that in not descriving of this ligh chameter of soil, but it is only a small proportion that is so. The worat part is much better natural quality of soil than many parts of the Britioh Islos, which produce excellent crops liy proper cultivation and man. agement. Our only motre in writing thus, is to induce our brotherffarmers to examine fully tho present atate of Canadian ngriculture., If they. consider it in that improved and prosperoun condition that ought to satisfy them, we ohould be sorry, by any hing we would say, to make them discontented. If, on the contrary, it is not in this improving and zrosperous state, we would carnestly urge them to begin in mediately to in. roduce such ameliorations, as their own convio tions-their inurests-und the example of other. countrics would point out ns necessary and expedient. We remind them of the actual state of things-we endeavour to prove that they might be better-and we respectfully suggest the mes. surrs we conccive possible to adopt to make, them better. We may be often in error, but we never shall propose any measure for the adoption. of our agricultural friends, hut such as wg honest. ly believe will be for thair benefit, as well at for the advantoge of the whole community:
Cote St. Faul, 274 Septemier, 1842.
Framatr Laboct in Arabta-I gaw several females here literally performing the Labour of bullocks-in plain English, they were yolied to the plough. One was a very comely lass, and she answered my inquirien laughagls, that they hired themselves for the purpose, the remuncration being a sinall guantity of grain! The men at the same time were sianding looking on, with epinnets in their hands. An odd transfer of dutiea this: The reader may recollect that Sir Thomas Munro relates, as a reason why an Indian should be exempted from paying his taxes, that he pleaded the late loss of his wife, who did as much work as two bullocke. $\rightarrow$ Selected.

Ife that does not know thase things which are of use and necessity for hitp to know, is. but an ignorabt man, whatever he may knowr besides-Til_olsom

## 1OETRY.

## A LeAF 'THAT' REMINDS OF THEE.

From "Handy Ampr" No. 6.

## Copicl from The Mfark Lave Express).

How sweet is the hour we give, When foncy may waider free,
To the friends who in memory live !--For then I remontier thee!
Thon, wing'd like the dove from tho ark, My heart, o'er a storiny sen, Brimgs back to my lonely bark, $A$ leaf that remints ol theo!

But still doce the sky look dark, The waters stll deep nud wide;
Oh! when may uy loncly tark Ii peace on the shore abide? Bitt through the future far, Dark thwugh iny course nay be, Thou artmy gyiding star! My heart will turn to thee!
When I see thy friends I smile;
II sigh when I hear thy mane;
Buashey connot,tfy the wiwle
Whope the snule or the sadness camo. Vtinity tio world'may deem
min: Thie cuatse of my sighs they know;
The brecze that rumper the stream, Knows not thodephe below:

## T: <br> OON TILE DEATH OF A young Lady.


Oh! she was too good lor thes world of caro,
Where flourish rank wedsand droop fair flowers,
And her spirit has soar'd far away;
Slié was like the first dawn of a bright summer's morning,
Ere it bursts into lieautiful day
She was like the blush of the budding rose
Ere infotho ripen'd flower at blows;
Or like the sweet blossom of Mas,
Which bloons prematurc dor tho cloudy day, And lades into early decay!

Hec thoughts were $t 00$ pure and her sonl two bright
For this vale of dark phantoms and shapes of night;
She perishted in early bloom!
And hio hiiuds of beauty will dew are mournng Ori her hallow'd and silent tomb.

ALCES'IES.
CURE OF HYDRAPHOBLA.
The Austrian Governmont have published the following notification of remedy in case of Hydraphobua:-
"Whenever a person has been bitten by a dog, the under surface of the tongue is exabined, and the sublingnal veins are generally found to be considerably swollen. They are opened. and the blood sllowed to flow until it stops itself. The patient is then ordered to take $\dot{\Sigma} \overline{5}$ grains of gentiana creciatica. This is the strongest dose, but it should be varied according to the ago and constitution of the pationt and the intensity of the disease. It should be cut up into small p:eces, and pounded in a martar with water, unthl a clear solution is obtained. It should be taken during nine days successively, before breahfast in the morning. At the same time the bite should be treated in the:following manner. If the patient has only been recently bitten, the wound should be washed with spirits of rosemary, and then dressed with a plaster composed of two portions of flour and rye and one portion of the wood of the Juniper tree, finely pulvelised, with a sufficient quantity of brandy to bring it to the consistence of a thick paste. If the wound be deep and dangerous, then
equal portions of the two first substances may bo taken. If the hyoun aphobia has already assumed a violent aspect, the patient must be incased in a straight walstcoat, in order to prevent him from doing mischicf either to himself or othors. The above remedy must be applicd, taking 30 grains of the root of gentiana crociatica, instead of 25 grains. It will occasionally be found necessary to resort to force to induce the pa. tient to swallow the medicme. At the expiration of three hours the dose must be repeated. Should the patient not come to his senses anter the setund dose, an entire root must be phaced in hes mouth with great precaution. The patient will chen it with avichity, and if he swallow the remainder of it, it may be looled upon as a favourable symptom. The veine should not be opened unless the patients are tranquil, or have partially or entirely recovered their scuses. As soon as the blood has ceased to flow, some broth should be giten to the patient, who will then fall into a deep sleep, in which stato he will remain for eight or ten hours. During this, sleep, a glutinous mucus will collect in the mouth, which is very important, indeed essential, should be removed."English paper.

The following extracts from "A Lecture by Mr. Smith of Deanston, on Drainage'," delivered at the Bristol meeting, we consi. der highly deserving the attention of our farmers:-
"After apologising for the alferation of the time of lecturing, Mr. Smith proceeded:
"L need nai", before such an audience, say that to the agriculturist the dryness of land is of great jmportance-that, in fact, the dry condition of the soll is the foundation of all good husbandry., It is bencticial in the first place, to the working of the soll; it is beneficial also to the after-growth of the plants, and there is scarcely any labour connected with agriculture which is not faclitated by the dryness of the soil. If we look on the face of nature we may gather instruction on this subject ; for if we find a tree stroug. er than his neighbour, we shall find that there the soll is deep and in a dry condition. If we see a stronger and darker-coloured herbage growng on the hill side, there the soll will agan be found deep, and in a dry condition. There is not one of the various soils on the surface of the United Kingdom, which will not bo much mproved by being placed in a dry condtiton, if they are not so by nature. I would say that even on a sub. soil of gravel or sand the introduction of the thorough drain system would be beneficial; but as there is only a small portion of that sort of soll in thus country, the greater part being super-ımposed upon a wet soil, it becomes of the very first mportance to the progress of improvement in agriculture, that sneans be taken to render the condition of the soil dry. Many attempts have been made witi that view, but they have generally failed, in consequence of not having been done ou a proper princyle. The first system introduced into this country, was to excavate deep drains, for the purpose of catching the water that rose from below in she form of spring water. These were, to a certain extent, effectual, and no doubt removed a great deal of the difficulty which agriculturists had to contend with, on land partally wet and partally dry ; but until the introduction of the thorough drain system, there was not the power of draining land, on whatever subsoil resting, and rendering it thoroughly and completely dry.The purpose of this lecture is to illustrate, first, the principle on which this system acts;
then, to show tho advantages which would arise to the agriculturist in corrying on the different processes with respect to the various crops; and then to explain the modes employed to render this drainage effective, both as to the cutting of then, and to the preservation of the openings made for the escape of the water.
$t t$ is the suggestion of scientific gentle. men who have turned their attention to the subject of agricultural chemistry, that tho rain in falling from tha atmosphere absorbs a considerable quantity of ammonia; and if there is any aflinity in the soil for ammonia, if the soi! wants ammonia, the affinity will extract the ammonia from the water, the emmonia remaining in the soil for the nourishment of plants. It is also known, that where artificial manure is put into the soil, some of the fibrous parts of it will be carried away with the water, and be carried down to the region to which it belongs; and although not so near the surface as it was before, it is near onough for the plants to reach it when they put down their roots.
A very peculiar change takes placo in any subsoil-it does not matter what composed of-after it is ploughed. This change begins to take place immediately, and the soil gradually goes from the state in which it was before to that of a mould. If you exa amine a soil which has become mould, it is of a very peculiar structure It appears as if all the particles were connected together ${ }_{j}$ and it secms to have some sort of attractivo property ly gathering together in that way: Vacuities for the air are thus formed, and there is a great tendency to absorb and retain as much moisture as is useful to the plant. If it is flled entirely with moisture it is injurious to the plant, but if there is a certain quantity it becomes beneficial; and when a great depth of soil is attained, there is great adsantage indeed, in antucipation of either a wet season or a dry one. In a wet season the water flows away, leaving the soil in a dry state; but in consequence of the mouldering state in which the soil is, it is very retentive of moisturc. and there is a great magazine of water preserved in woll for a dry season. being covered by the active soil, the drought may penetrate a few inches, but in consequence of the lower part of the soil being covered with this upper statum, it is defended from the extreme action of the rain, and a very dry atmosphere. Consequently, it will be found that in soil so treated and converted into this mouldy condation, in very dry seasons sufficient quantity of moisture will be retained for the use of the plants, which will grow vigorously when land in the same neighbourhood is completely dry.

A notion has prevailed with some people, that it is possible to drain land too much. I do not think so, from the very fact that the mould becomes an excellent magazine for the retention of moisture. A circumstance took place in regard to this in my own district, in 1826, a very dry season. In that year there was such a long period of dry weather, that the pond was dried up, and there was a great deficiency of crops. I had a field which had been treated in the way I have explained, and I had a crop of hay on it. The hay in the country round was very poor indeed, producing not abovo half a crop. On this field, which 1 had deepened to 16 inches, I had a very splendid crop. $\Lambda$ proprietor of land in the neighbourhood, one of the old school, resisted to the utmoat of his conviction, with regard io the result of thorough draning and subsoil ploughing. A person occasionally employed by me was also engaged in doing work for him. He had asked about this hay, and the old gentleman was rather puzizled at ths state oftho
crop and exclaimed that he really thought I had drainod my land so much that I should have no cmp at all. He was immediately after this complotely wedded to the system, aud from that day has beon vigoronsly engaged in introducing thorough draining and subsoiling all over his estate; and he is now having a great deal of poor soil, on a very rich and productive ostate, treated in the same way. Taking the average of that gentleman's estate, 1 should say that he now produces double the quantity of corn that he used to obtilin. He now grows potatoes where he could not grow them before, and on the old clay he produces regular and large crops of turnips.

Agentleman wished to know the name of the individual referred to.
Mr. Smith—Mr. Stirling, of Keale.
Another inquiry was saade as to whether there was any land where subsoil-ploughing would be successful without thorough draining.

Mr. Smaith-i am much obliged for that hint. Many persons have thought that ploughing the subsoil might do without thorough draining, but there are few instances indeed in which that application of the plough will not be hurtful instead of beitig bereficial. If you have a retentive bottom which will not allow the moisture to pass ayay, it must remain till absorbed by the atmusphere; therefore the greater the chambers for receiving raint, so much the longer will the land be kept in a wet state. The practice which now prevails in the English clay districts of ploughing with a shallow hatrow, has arisen from the experience of ages, which has taught them that on such soils you cannot cultivate wheat if you plough a deep forrow, beoduse you minke just so much the larger chambers to teceive water. Even in open soils I, would not recomanend the application of the subsoil plough till the thorough draining had been executed.
A question has been handed to me, as follows:- "Wha: effect have thorought draining and subsoll ploughing on the habit of throwng out the wheat plant by frost?' There is no difficulty in answering thir; because it is well known to be uving to the moisture that the wheat plant is thrown out, and whatever removes the moisture, will have the favourable tendency required. have known many places where alinost every winter the greater part of the plants were thrown out. Now, the result of thorongh draining and subtoll ploughing is that they retain the plant perfectly well, and have very abundant crops."

The remainder of the Lecture of Mr . Smith is highly interesting, and we may give it at another time. The experience of this gentieman ought to be sufficient to convince every one of the vast benefit that is to be derived from thorough draining. Indeed, arable culture cannot be prontable without thorough draining.

Field Musuroons.-(From a Correspondent of The Times).-Persons at this season of the year cannot be too cautious in the choice of mushrooms. Sumday afternoon a family named Harper, residing in Bernick Street, Soho, nearly lost their lives by eating too freely of some stewed mushrooms, which in the course of the morning had been purchased of a country-looking lad, who was hawking them $m$ a basket about the streets for sale. Shortly after eating the same, thry were seized with violent retchng, attonded with choleric pains an the stomach, which thad not modical assistanco beon
promptly produced, would most probably have proved fatal. Hesides several poisonons "fung1," there is a varicty of the tubei, which, although an imnocuous catsup may be made from them, yet are dangerous to be eaten, being highly indigestible, and apt to swell in the stomach, producug very painful and dangerous consequences. The best way to test the quality of mushroms is to introduce a silver spoon, or a new shilling, er sixpence, or an onton, into a vessel into Wheh mushrooms are secthng ; if, on takmg ether of them out, they assume a dark discoloured appearance, the circumstance denotes the presence of poison existing among then; if, on the other hand, the me:al or onion on being withdrawn from the liquor wears it natural appearance, the fruit may be regarded as being genuine and of the right sort.

## AUTUYNAL LEAVES.

We all know that it is a universal practice among gardeners, to sweep up and carry away the dead leaves of antumn, which at his season are strewngg the ground in all directions. The neatness which must de mantanned in a garden seems to render this labour necessary, and the practice of ages sanctions it. In the eyes of nine-tenths of the world, the man who permitted the dead leaves to accumulate among his shrubs would be set down as a sloven; and yet that man would be a better gardenor than he who is eternally oxercising the broom and the rake, and treating his garden as a housemaid reats her chainbers. When nature causes the tree to shed its leaves, it is not merely hecause they are dead and useless to the tree, but because they are reguired for a further purpose-that of restoring to the soil the promepal porteon of what had been abstracted from it during the scason of growth, and thus rendering the soil able tomaintain the vegetation of a surceeding year. Every particle that is found in a dead leaf is capable, when decayed, of entering into new combuntions, and of again rising into a tree for the purpose of contributing to the production of more leaves and Cowets and frutt. If the dead leaves, which nature employs, are removed, the soil will doubtlese, upon the return of spring, furnish more organzable matter without their assistance ; because ats fertility is difficult to exhaust, and many years must elapse before it is reduced to sterility. But the less we rob the soll of the perishing members of vegetatoon, which furnish the means of annually renewing its fertility, the more will our trees and bushes thrive; fur the dead leaves of antumn are the organic elements out cf which the leaves of summer are to be restored in the mysterives laboratory of vegetation. They centan the carbon of humns, and the allaline substances essential to the support of growiug plants; and although such substances can be obtaned from the soll, even if leaves are abstracted, yet they can never be so well obtained as through the decay of those organs. The dead leaves of autumn then should not be removed from the soil on which they fall. Neatness, no doubt, must be observed ; and this, we thalk, will be sufficiently consulted it leaves are swept from walks and lawns, where they do no good, and cast upon the borders in heaps, where they will lie and decay thll the time for digging has arrived, when they can be spread upon the carth like so much manure. Or, when planting is going forward, a quanity cast into the hole in whach the young trees are to be stationed, and mixed with the soil, will bo found to have a beneficial effect.

WEEPING.
Young women are full of tears. They will weep as bitterly for the loss of a new dress as the loss of an old lover. They will weep for any thing or for nothing. They will scold you to death for accidentally tenring a new gown, and weep for spite that they cannot be revenged on you. They will play the coquette in your presence, and "eep when you are absent. They will weep because they camnot go to a ball or a teaparty; or because their parenta will not pernit them to runaway with a blackguard; and they will weep because they cannot have every thing their own way.

Married women weep to conq̧uer. Tears are the most potent arme of matrimonial varfare. If a gruff husband has abused his wife, she weeps, and lie repents and promises better belavioun. How many men have gone to bed in wrath, and rise in tho morning subdued with tears and a curtain lecture? Women weep to get at their hosband's secietes, and they also weep when their own secrets have been revealed. They weep through pride, through vanity, throush folly, throtigh cunning, and throigh weak.' ness. They will weep for a husband's misfortunes, while they scold lien. A woman will weep over the dead body of her husband, white her vanity will ask her neighbour how she is fitted with her mourning. The 'Wudow of Ephesus bedewed the grave of her ayouse with one eye, while sho squnted love to a young foldier with the cther.'
Drunkards are much given to weeping.They will shed tears of bitter repentauce this monent and sut the next. It is no uncommon thing to hear them cursing the effects of intemperance, while they are poising the cup of mdulyence, and gasping to gulp down its contents.
The beggar and the tragedian weeps for a livelihood; they can coin tears and make them pass for the current money of the realm. The one ueeps you into a charitabe homour, and the other makes you forced to weep along with him. Sympathy bids us beleve the ona, and curiosity prompts us to support the other. We relieve the beggar when he prefers his claim, and we pay tho tragedian bafore hand. The one werpg whether he will or not, but the other weeps only when he is well paid for it.
Poets are a weeping tribe. They are zocial in ther tears; they would have a whole world to weep along with them. Their sensibilty so so exquisite, and ther imagination so fantastic, that they make even the material world to sympathise with their sorrows.
The dew on the cheek of the lilly is com. pared to tears on the clieek of a disconsolate maiden; when it glitters on the herbage at twilight, is called the tears of the evening, and when the sun rises and cxhales the dell-drops from the flowers it is said to wipe away the tears of the morning. Thus we have a weeping day and a weaping night-We have weeping rocks, weeping willows, weepng waterfalls, weeping skien, and, if any signal calamity has befallen a great man, we have, to finish the clomax-a weeping world:-lb.

To Destroy Rac Wort.-This obnoxious weed may be effectually destroyed, by about three sheep to the acre being turned into fields where it chiefly grows, in the faunths of March, April, and May.


To the Dafien of the Billali American Cultivator.

## Lospov, (Camath IIcst).

 Srptember \$2:h, 1812. Sirs,In the Fall of $18 \overline{1} 0,1$ sowed 8 arres of land with ree; the plants looked well in the Spring, excepting about three quarters of an acre where the soil had not been so well prepared, and there the prospect of a crop was so indiferent, that plonghed it up and sowed oats in the place of it. At tho ensuing harsest both the rye and the oats proved to be a yery fair crop. It bang my intention to give the land a better fallow, it was plaughed that Fall; and received three floughings during the following summer, and at seell lime appeared in very good etn. Jilion fof a crap, and on the poth of September was sown futh wheat. frerything tras promising untila ahort titije before the gmin came into car, and then $I$ abspryed that in epots it hegam to assume a jellow thige; lifese spots moreased in extent, and at the time for geaping drew nugh, the fiedd, to a spectator at a distance, presented a black tupéefanče. When harvested it was not all equally bad, but upon the land where the rye grew ir the year previous to the fallow; the crop was very miserable. Now, I would havo charged the failure to the unnsual flages we had in the month of fuece, ss I know that a considerable quantity of Fall Hhestat was injured in this section of the pdifitry by these frosth, and I would have supposed that inue was the more likely to have heen injured in this way, as the seed lind only been a sliort time previous procured from England, and could scarcely be considered so hardy as that whelh had been so long in the country a.id has become properly acclimated. But one circumstance prevents me comiug to this conclusion, and that is, that where the oats grew instoad of rye in 1840, there the wheat was goad and the straw of a healthy colour, and not one half so much infested with chatt as the rest of the field, which, I thunk, will nearly yield as much chaff as wheat. The soll of this field is chiefly a calcarious sand; with a fair admixture of vegetable matter. I do not consider it a first-rate wheat soil, but: the land on which the oats grew, is no better than the rest of the field and scarcely so good as some of it. Now, there being no perceptihle difference, (to me at least), between the land that grew the oats and that whici grew the rye, the subsequent beung precisely the same, the sarne seed used, and all sown at the same period, how am I to account for the fa: lure of the wheat on the rye land, and the goodness of that on the oat land, but by supposing that the rye crop hat exertel on the soil an influence injurous to the growth of the wheat? I bavo enquured of sume of my neighbours the result of their experiance in rye growing, and I find that most of them are of opinion. that it umpoverishes tho land more than any other crop. But, accordugg to the experiments of Van Thaer, it is no more exhausting in a gencral way to the land than oats or wheat; and I never heard that it was considered pecuharly injurous to succecding crops in those parts of the North of Eurrepe where it is most extensively.groun. My object in making this communication to you is to endeavour to obtan information through the medium of your information througn the medium of your
Journal, form some ono who has had expe-
rience in the growing of rye. At present I do unt ferl at all patifiat to the crop, but as it is the first one 1 over grew of it; I cannot therefore come ta a postho con-luston upon the result of a single trial. For the honour of our l'rovince, I reinice at the ostablish. ment of a respectable Agricultural Journal among ue. Wo all know the poor encouragement that is afforded to agricultuse by the presont prices of farm produce. If it is expertiont that the Canadian farmer be shielfed irom the cmpetition of a foreign state by tiscal regulations, your Journal presents a litting opportumty for impressing upon the Government; the necessity of the impesition of these regulations. If our agriculture is to receive no protection of the lind, then we must the more parnestly endeavour to improve the culture of out lands and thus brave the competiton. In any casc it will be much to the intorest of our farmers to support such a Journat as the Cultirotur, they will thus have the meane of exchanging their mutual experience, and of improving the practice of their arts so that th this age of progregssion, they may not be found among the fast in the race.

WILKMAK Fh,

## THE NEW TARIFF.

Now that tho mew Toriffof Sir Robett Ped lias opened the Einghsh market for salted meat and the produce of the Unity from Iritish America, it may be useful to inquire how we are prepared to benofit by this ptivilge! ! llave we rich pastures, such as would be suitable for fattening catle, or for making good cheese, fit for the Euglish market? We are sorry to say that it would be dufficult to find one hundred acres of land that could be properly termed 'rich pasture,' in any county in Pastern Canada. The pastures here are generally land that never was cultivated, or else land that lad been in tillage the year provous, without having been sown with grass or clover seeds, and producing as much weeds as ugeful grass. There mey de some fields of better pasture than we describe; but we never have seen in the country ten acres of pasture in one place, that would bear any cemparison with the rich pastures in the British Isles; :hough we believe the land here is naturally of better quality than the land in Dritain generally if managed as it as there. It may be answered, that this country is not so suitable, as regards climato, for rich pastures as the Br: 'sh Isles. Every part of it certainly :s not: but most farmere have some land that is well calculated to be converted into good pasturage, that would hold good in almost every season. Indeed, there are many sections of the country that if properly manared and shadod with trees, would yeld most excellent pasture throughout their whole extent. It is inconsistent to syy that the country or climate are unsuitable for good pasture, until judicious measures have been adopted to make land into good pastures, and that these meaus have failed. We regret that hitherto no encouragement has been held out to fatten cattle or have a large dairy produce, because the home market was closed to us, and the Canadian market was constantly open to, and regularly suppled by a soreign produce. But notwithstanding
these diecouragements, it would have been much hetter; under any circumstancef, to allow some of our hands turepose in pasture to recover their fertility; than to keep them constantly ploughed, yiolding every alternate year, scinty and weedy crops that would not remunerate the farmer for hisseek and labour, at the common wages that is paid for habour. By having land in ricls pasture, it is at all times ready to be coni: verted to tho most uscful purpose. lands under cultivated grasses in much more valnable in every country, than in any other state whatever. There is a vast difference bntween the value of land under cultivated grasses, and that which is exhausted of all fettility by constant and slovenly cultivation and cropping with grain, without any regart even to totation. We hope our brother: farmers will pasion the confidence with which we write on this subject, as it is one in which we had some experience. Tho raising and fattening of eattle and keeping. rarge dairies, would not require so much expenditure for labour that is at a ligh rate in proportion to the value of produce as thlage farming. No class of this community are so ill paid for their labour, and have so littlo profit upon their capital as the agriculturair and this is one cause that has made it unfashionable. Any business hy which dollars afe acquired atid aceutoulated, will always have the preference to agricultural employment with all who desire to be fashiongble; and this withdraws from agricultural pur= suits the best educated, and many of the most talented young men, even though thers parents should have been farmera, to the very great injury of agriculture. Educated. men of talent would te. highiy usefulas agriculturists. We hope the time will arrive. that this occupation will offer as much encouragement to men to engage in it as any other trade. When justice is dono to it this will bo the case. It is on employment of which the most noble as well as those of gentle blood need not be ashamed. We may say more in favour of this occupation than we are justified in doing. We confess we are disposed to attract fashionable people to it, in the hope that by this means, more care and encouragement would bo given to it, by those who are in influential situations. By every lawful means wee shall. constantly endeavour to adrance the insprovement and prosperity of agsieulture; and if we are unsuccessful in our endea. rours, we shall have the satisiaction to fers that we have done our duty.

We ought, in humanity, no more to despise a man for the misfortunes of the mind than for these of tho body, when they ara such as be cannot help: were this thoroughly considered, we should no more laugh at a man for his brains cracked, than for having his head broke.-r'ore.

When any calamity has been suffereds the first thing to be rememberea is, how much has been escaped.-Dr. Johnson.

## MANURES.

Ae manure-heaps are the riches of the fiolis, $g$ od farmers will neglect no means of formug them: indeed, it ought to be their daily care-for whont manure it is impossible we can have abundant produce in harvest. It is an extraordnary fact, however, that in Eastern Canadi, hitherto, a large proportion of the dlung made in farmers' yarde has been wasted, either by being left jor gears in the yard, mutil all its best qualities have evaporated, or by being misapplied when takell from the yard. The poor crops that may be seen with those farmers who act thus, suticiently proves the proudico hy which they are governed, and the blendness whth which they proceed in their labours. It must be from prejuliee and blindnoss that they noglect to make use of their farm-yard manure, becauso we seldom see crops upon their farms of that fuxuriant appearance that would indicate es. trame. richness and fertility of soil, that would requre no manure. We have seen land in poseossion of those farmers who neglect to make use of their manure, or who sell it, that would require it very much. Strong clay lands in particular that are eshausted and dirty; if summer-faliowed, and lightly dressed with manure, would produre a crop of as much value in one yorar as it loes now in three. These remarks may mot. he necessary for our Subscribers, ns it is not probable that many of them will neglece. to make use of all the manure they ran procure. We slall, thercfure, say no more on the neglect of making use of manure, but gather how we are to procuro it in sutficient abundance to keep cur lands in fertility

Accordang to Dars'o emperimente, tho straw of barley contaus only twa per ceut. of substance soluable in water, and havug a slight resemblance to mucilane; the re. mander consists entirely of fibre, whis an he decomposed only after a longr time, and under circumstances calculated to faciltate the operation.

Chaptal iut his "Agricultural Chomistry," says, "I do not believe that there is m the whole vegetable kinglom, an clerent afliording so little mutriment, etther for plants or animals, as the dry straw of gram; sernang only to fill the stomach of the Jatter, and furnishing to the former but about one hundredils part of its weiglat of soluble manure.
" Many of those who cultivate the land, how only the kinds of straw which are sutable for furnishing manure, and in a dunghill of litter, consider them as acting the principal part, whereas they are only fectle accessories. Weeds, leaves of trees, and all the succulent plants which grow so abundantly, m ditches, and haste lands, under hedges, and by the roded side, if cat or putled when in flower, and slighty fermented, furnish from twenty to tweny-fire times inore mnanure than straw doent these plants, carefully collected, would furmsh to the aurriculturst an smmense resource for carich. ing his lands. Besides the advantares aris. ing from the manure furnished by these plants, an agriculturist will find is account the dissemination of their seeds. whech, by propagating in the fields, deprive the crops. of the nourishment of the soil. 'I'he turf,
that borders fields and highways, may he by ie properties of another, in such a mana made to answer the fame purpose, by culting ne, 3 to proture a mixture suited to the if up with all the ronts aull the earlh adher-1 som to he euriched by it. For example, if meg to theme rottug the $"$ hole in a hicap, and ', it le required to form a compost for a clayey alterwards carryng the mass upon tir firlit: or what is stll hefter, by burmig it, and dressing the land with the proslucts of the combustion."
The eame author gres on to say: "That if straw did not serve as beds for animals, and dud not contribute, at the same time ic ther healh and cleanlaness, it "ould be hetter to rut the ears of corn and leave the stalks in the field; siner thoy eerve only as abserboots of the crue manures."
In the opinion we differ from Count Chaptal: becanse barn-yard manure. besules its nutritive virtues, possesses the adsallayg of roftening hard lande, and rendermer them permeable hy air and water; and it owes this property almost outirely to the straw which it contains.

We have stated - our Treatise on $A$ prriculture, that straw ploughed into the lapu, woud have a more beneficial effect upon the soil, than the same quantity of straw applied to the sane guantity of laud, after it had been wet and rolled into manure, provided no uther ingredient had leeen added to the straw, except its laving heon wet with pure water to cause it to ferment and rot. We think, nevertheless, that the best management is to collect all the straw that is produced, into the barns and farm-jarde, and if the straw absorbs the true manures, it will yieh this manure again to the crop, after it is ploughed into the soil,

Cument Chaptal agan obseries: - "Besules the characterstic of prowiding plant: with fuod, the various kinds of dung passess other qualities, which add to their fertiluzing powers. Dung. as it is apphed to ne ground, is never so much decompused as to have ceused fermerturg; and from the monment it is mived with the snil it proluers in it a drgree of warmoth favoura in vegretatron, and scrving to grard the young plants agamst the efiects of those sudden returns of cold th the atmospheric temperature, "luch are so often experienced. On account of the vicious gluids whirh it contains, dung is not easily dried, unless it be in contact with the ar. It therefore preserves the roots of the plants in a state of moisture ; and supports vegetation at thase perinds, when, without it, plants would perish from drought. It likewise contains many salts wheh are transmuted by water to plants, serving to ammate and excite ther fanctons. The various kinds of dung, mund wath carth, may be considered in the light of amendments to the soil ; and in this view they ought to vary according to the nature of the earth to be improved.
"Compact sols require to be separated and warmed; they reques, then, hose manares whath hase been lut s!'ghtly fermented, and that are the rtchest in salts. Calcarenus and lught earths requac oly manures, winch decompose slowly, and can retan witer for a long time, to furmsh it to the vaints ot the phath anseasums of eronght.
"It is by separating these praciples, that We may be able to approprate the various Jinds of manure to each species of soll and plant; the attention of agriculturists is alrealy directed, upon this point, to the composition of mixtures of manures, called comjosts. These are tormed by arranging, one above another beds of different kinds of manure, taking care to correct the faults of one
or conpley sifil; the first bed should be miade of plaster, gravol, or mottar rubbish; the second of the litter and excrenents of horens or she pp; the thirld of the swecpings of yards, and harns, of lean marl, dry and calcarcons; of mud deposited by riverf, of the feral matter collected upon the farm, the remains of hay; straw, \&c., and this in Its turn mist be covered with a laying of the same materials as the first. Fermenta. tron will take place first in the beds of ding. and the hquor flowing from them will mintre with the materals of the other layers: When the mass exhibits the figns which I lave ponted out, as indicatury decomposifoon to be sturicrently advanced, it must be carried into the fields, care being first taken to mis woll the substances composing the ditterent hayers.
"If the compost be designed to manure a light, porous, anl calcareons poil, it must be formed of materals of a vory difierent chanacter. In thin case it is necessary that argillaceous principles shund prevail; the substances should te compact, the dung of the Jeast heatmg kind, and the fermentation comtmued, toll the materials form a yielding and glutinous paste; the carths must bo clayey, lali bahed, and pounced, or consisting of fat and argillaccous marl or-mud. Of these all the layers shoutd be formed.".

## lime as manume.

## (Alridgal from 'The Farmers' Dircetory).

The operation of fire on limestone expely (certam porthons of water and carhonic acid, | leaving nearly pure calcareous earth. It neutrateres acad salts, ami consequently it will act pullerfilly on all peat soile, hut with not give tenacity to sands, or friability to clay wheh chalk will effect: when slaked it is of such extraordsury divisibility, that it is capable of much more intimate combimaton with other substanees than either marl or clalk.

The state in which lime is applied, is eid ther tresh from the billi, while hot, or else aftor it is slaked.

Whea newly thumed, it is in its most aclise shate, and posserses great power in destroying such aniunal and vegetable sub. stances as come in contact with it, and is very properly called quick lime.
-When applicd to peaty or boggy earth and all such solls as have remaned in an uncultwated state, covered with coarse plants, it is found to be very heneficial, converting them inn a mucus, which the atmosplere lirms into veretabile mould. It is peculiarly well calculated for grass lands, the pooduce of wheh is so sour that the cattle will not touch if, as it destroys all acidityr for bastance, if a hamdful of lime be thrown upon a epot of long rank grass, the cattle will afterwards eat it close to the ground.

It is a well ascertanced fact, that land Lhat has been limed, greatly improves the quabty of the grain, having a thinner ekin and yeldng much nore flour than from grumad where it has never been made use of.

The quatntity of lime to be applied per arre, varies greatly according to the soil; it. should be scattered over, so as to come in contact with the whole of the suriace, and in ploughng care should he taken not to. plough it in ioo decp. It is equally beneficial on poor as on rich sonls, and requires to be mined and incorporated with but a smalk portion of earth to render it highly produce

Fiom the Trausactons of the New Yotk $A_{\text {giticultutal }}$ Buclety.

English Agncultuat-A Glaner: at its Progress ano Prospects - My Jons Mannam, Nobin Delghton, Wethama, Youscmal, Begland.

## (Contiatued from our last).

Tho trace the progress of the practice of agriculture salace the period when it was beginning to be considered a branch of natural science, and capable of elucidation by the apphication of the true rules of philosophy, is not our am. From the first birth of this princple, as wo have already shown, it was some tume before it became visible upon the practicc. Although in the Elizabethan age, the profess on became more fashionable, though Fitcherbert, 'Iusser, and llatt, the three first writers on the subject, collected the well tried axioms of the ancients, and urged many practices which had been neglected; their works show us what an educated amateur considered ought to be dove, rather than what was done in the 16th century; and it was not unth the middle oi the 17th, that in the writings of Bligh and Weaton we see the actual operation of the spirit of change. lly the former, (in 16:52), we have recommended the cultivation of clover. And by the latter, (1684) the curmp as. tho wanter fodder,-the use of which crops have completely revolutionized the state of agriculture. But it was not till the next century that they came farrly moto use; from whech tume the present prariac may be said to date its existence: nor till some time after thes, that the trimuph of the modern spirit oi improvement became fully developed. The bold vews of I'ull, (1740), gave at once the finish to the new system of cropping, (which arose from the growth of clover and urnips), and a lasting mpulse to the principic wheh had produced the change. In the practical labours of liakewell, aud the Messrs. Culley, and the endeavours of such men as Lord Kames, "zo improve arricathare by sulyectuntr it to the test of rational principles." we see the continued iniluence of the new born spert of progrese, and in the present position of senglish agriculture, the results of that operation. The nature of this pusition will be seen in its elevated standing and high estimation as a science, which have secured to it within the last lis yeare, the labours of such men as Davg, Sinclar, Danbeny, IIenslowe, Johmston, Loudon, Lowe, Siephens, Johnson, and Madden, the aid of jrofessors at our universities, and the unted effirts of more than three hundred socteties, estabhished for the purpose of eluc:dating truh, discerning error, and promulgatur the hatest improvenent in the theory or the practuce of agricultare-socicties, ton, patronzed by all that have a name or standing in the country. Thus the Royal Snciety of Earfland, though but of three years standing, possicises not mercly the sufferance or passive patronare ef royalty, but the acture support of that illustrious mdividual, who, it is reported, is soon to assume the dignty of Kurg Comsort;* and of more than five thousand other members.

Its position as a practice exbibits an equal advance. The first and chief evidence of
"This is the repurt since the lratere of Wales' birth. It is to prevent a confusson of namesnad the unpleasant circumstanco of the sont taliur precedenco of the father. F'rmece Ahert is now a Governor of ho Royal Agnculthesi Sucpery, and has taken into his ownhands a faren at Wudsor. Ho was also clected on the 12 ih of this monti, (Dec's, 1841), a member of the S:anthicld Club.
this which we shall notice, is seen in the change from the ofd intield and ontioh system, and tho altermato crop and fallow, or two crops and a fallow, to the present system of drill hasbandry, and the rotation of batley; clover, wheat, aud fallow upun stult land; and of barley, clover, wheat, and turmps upon lifht and dry soils. The first advantage arising from this change on strong lamh, is the grain of a crop instend of a fallone, and as this crop is one of fulder or pasturage, the consequent ability to supply the market with a greater weight of stock; the second is an increase of fertility in the soll, from the increased yuantity of manure made upon the farm; the third is a better chance of the wheat crop from its natural likug to fallow cluver; and the fourthan increase of fertility in every crop from dhe drils system, and from the facility "ith which weeds may be extirpated, half a fallow made, and the soil at the roots of the plant stirred-a practice which theory and experience prove to be highly beneficint to vegetaton.

Bat this is not all; by the mitroduction of the mangel zurtzel, the carrot, \&ec., into cultivation, the farmer is at tumes able to do without a fallow m the rotation. By judactous and effectual dramare, subsoll ploughing, many farmers can grove turnips on thas stiff land; and it is yet a qucsitio cexcta, whether or not the fallow may not be entirely dispensed with. This is certan, however, that many of the best practical men of the day thank it posstble, and many upon a few fieds wheh are thoroughly drained, do dispense with the fallow and proiuce a farr turnip crop. And I have no doubt but hat eithe-this or some other green crop will, in the course of tume, extend the systen, so that the fallow will become the cxception and not the rule, for the old idea that the land wants rest is quite abandoned.
The effect of the turnip and clover husbandry upun the light and than solls of England is still more marked. Without folder, it is an old axiom, that there is no cattle; without catle no manure; and withont manure no corn. The potal abolition of the fallow, and the substitution of two crops of green food, has therefure, upon the light lands, produccil in a great degrec, those advantages which tie hase emamerated as having arisen, by a partial adopeon of the same system upon the heayy lands of Enyland. Aloreoter the treadng of sheep has a must be:eficial effect ; so that those sorls, which formerly wouk searcely return the secd, now produce as finc crops of corn as can be met with in Englam. The Sorkshire and Lincolnshire wools are starting evidences of the truth of thes; and I can look out at the present moment upon 500 acres of thin limestone sot, which 50 yeas ago paid, and with dulficulty, five shathangs per acre rent, and which now are let at is shillings per acre. That the produce has increased in an equal or greater ratio than the reat, is esideneed by the prosperaty of the presert tenants. I know also a village a fell miles from the city of York, the soil on one sule of which is strong and deep, and on the other of lught texiure upon a lanestone base. Not many years aro, scucral farms of the heavy hand were exchanged for twese the mumber of acres of the hightand, the latter being considered very bad. At the present time, buwever, this gumdana bad laud, by the turnip and seed manarement, and the use of bones and rape dust, is considered the crack hand of tae listrict,
 white the tee..iy solls on the other sitie of the village are not worth mere that fifteen shill:ngs yer acre, as they are not drained, and cannot be managed upon the improved
lut there are several other rotations of cropping used in particular localities; but as they; for the most part, depend upon the same principle as the one we have noticed, they are but exceptions to the general rule, and space will not allow us to particularize them.

Ihe next evidence of the improved practice of the present time is seen in the variety of crops. Wheat is no longer a partial crop -one produced in the garden soils of England - but is the farmer's paying crop.Comutless varieties of seed are to be found adapted to almost every variety of soil and climate. In barley; oats, beans, peas, tares, rye, potatoes, turnips, carruts, parsuips, naa:: gel wurtzel, hops, linc; and the artificial grasses, the same endless varieties are used, each variety being selected for some pécular quality. In this small township; last year, 1 counted no less than fifteen varicties of turnips. Six sorts I myself introduced from the splendid stock of Mr Matson, of Wingham, Kent. None of the sorts had been grown here before; and thoy have answered se well in whit is called a bad yearg that I have no doubt but that in a year or two they will be extensively used in this part of the country, to the equal benefit of the purchaser and the jroducer of the seed. Now, itt every article of produce the same improve: ment is yearly progressing, because farmers are no longer averse to rational experimerts, and not so much prëjudiced in favour of old phans. It is, consequently, worth the while of suchr men as Mr. Matson, Mr. Skirving, (of Leverpobl), cum multis aliis, to devole their tune, talents, and capital in raising tho best and most pure varieties of seed.
In manares we have manifest the resulte of the same spirit. Along with a greater shill in the econony of the manure hean, an increasing use and saving of the jiquid from the cattle yard, and a more judicious appli: cation of the varous composts which have bean employed for ages, the have now in use a variety of hand tillages which are of modern date, at least as far as regards their general use, amongst which we may nomtion bones, rape dust, mitrate of potash, mtrate of soda, gypsun, urate, common salt; sinot, lannee's carbon, Lance's humus, Clark's dessicated compost, Pomevin's dismfected manure, Alexamer's Chinese manure, rage, graves, soą!-ashes, \&c., \&ic.

Of the change in agricultural implementes it is unnccessary to say that it has been wonderful. The transition from the state of thatrs ander which the hanmer and the axe were the alpha and the onega of the firmer's stock of implements, (when it was a sure gute non amongst the floughtuan'c qualitications to be able to make his own plough), is evicent to all. If, however, we book at the adrance in the mechanism of mplements withu the last few yeare, and take mio arcount the short time in wheh the several changes bave taken place, we shall at ouce allow the jart to be more astomslung than the whole; that the improve: ments made in the last dozen years are far noure marked than all that were made prevously: The fact is, that the exhibitions and rewards of our agricultural sociction, bave given an inpetus to the spirit of experimenial rescarch in the bosom of the me: chanic, and the result is an advance in fonow: Iedge equal to that made in any other branch of the practice of ayriculture, by the adoption and agency of the same sjurt. A practical commentary upon these remartif, is afiurded by the fact, that one m:aker, (Rarsomar, Ipsecich), exhbited no less uan uisitysix sarieties of plourgh, at the last inceting of the liogal Agricultural Socicty of Eng: land.

In the live stock of the farm, the working and the results of tho same spirit are appasrent. About ten years after l'ull hanched boldly the barque of theoretical arriculture, and set open lor ever the door of improvement, Mr. Bakewell commenced those erperiments upon breeding, which, as he based them upon rational principles, and upon a doep and observing knowledge of the nature of the amimals he wished to improve, were attonded with the nost decided success.Thus the sheep which he introduced, and the Messrs. Culley carried to perfection, possessed the quality of beiner fatted at litule inore than two years old, while the old iored were scarcely ever fit for the shambles till they were twice that are. 'Ihis advamtage was appreciated, for we hinow that one of his rams was let for the season for 800 grineas, and that the produce of one ewe and one birll, (three rams), were let for 1.200 guineas. Ilis bulls, too, fetched 100 and 150 guineas each. Since this time, breeding has continued to.bo a branch of agricultural scic ce, by no means attained without tume ani rtudy and capital. Yet it is still growing more and more popular; and although the gradual difinsion of the sheepand cante descended from Mr.'Bakewell's stock has reduced the prices, a good animal of any pure breed is yot soumlit after with avidity; and purchased at a sum far above his intrinsic value for any other purpose than breeding. Thus we read that Mr. Jonas Webb, oi Babraham, Sussex, let a Suuth Down ram for 100 guineas, to the Duke of Richmond, at his last show; and, (I take the first case which comes to my hand), DIr. Smath of Durley, let fifty-one rams at an average of ' 110 . iss cach, and twelve at an average of 18.10 s. each. The following statement of the prices, fetched by animals of the Short IIorn, IIereford, Sussex, an? Devon breeds, at the latest sale of each sort which we canmeet with, will show in what estimation well bred cattle are held. Thus,

## SHORT HORNS.

## BLi.Ls.

Gulucas.
"Buchan Hero," (prize Bull at Berwick), sold to Messrs. Whittaker and Tempest, for.
Messts. Highruson E Wilson's "Sir Thomas Fairfax;" for.155

Mr. Jacques' (Richinond, Yoskshire),
"Clement," 'V...................
Sir Watkin,"...................... 100
cows.
Mfr. Jacques' "Mcrmaid,"... . . . . . . . 105
Do. "Gulden Drop,"....... 160
Do. "Indy Ann,"........ 135
Do. " Ihachel."................ IOO
MIr. Yigginson's (Yorkshire), "shma-
135
Do. Do. "Alexandrma," 110
Mr. Wilson's "Jrawith Jud,"...... 160 calves.
Mr. Jacruce' bull calf "Dulcimer," 10j Do. heufer calf "IIippodama," 60 Do. do "lurity"..... Fil
Mr. Wison's do. "Snowdrop,"., (x) Do. do. "Wlute ilosc," d: IIEREFORDS.

BULLS.

| Mr. Pricc's | "「ranip............. 100 |
| :---: | :---: |
| Io. | "「rucboy"" . . . . . . . . . 1.10 |
| Do. | "Washıngton,". . . . . . . 160 |
| Do. | "Murphy Doclinj;".... I10 |
| Do. | "Tho Rejccted,"..... 110 |
| Do. | "Victory;". . . . . . . . . . 100 |

cows.
Mre Prico's ".Vood Pigcon,":

Gulaeas.


Do. "l'ube llose,".
100
catives.
Mr. Price's 12 bull calses at an average price of $x \cdot 12.10$ bhalhngs cach.
Mr. ''rice's 10 heiter calves at an average price of $5: 27.3 \mathrm{~s} .4 \mathrm{4}$. cach.

SUSSEA.
nul.Ls.
Mr. l'utland's old lull. . . . . . . . . . . . cows.
Mr. Patland's one a
Du. do.
50
DEVON.
nullas.
One of Mr. duatin's (Mollanul),
18 monthe
cows.

$$
\begin{align*}
& \text { Do. do. "Comely," } 53 \\
& \text { catves. } \tag{d}
\end{align*}
$$

One a
Do.
At Mr. Parkmson's sale last year, (1810) the cow "Adelaide" sold for 200 (rumeas and a bull calf, ("Collard") for 300.

T'o pigs, if possible, greater attention is paid than to any other animals. The pior is the pour man's stock, and of course is his study, so that a linowledge of Jus "pnints" and fualities is more generally diffused than of any other ammal. Ihe puor man loves his pig ; he Juoks upon hum as lus wiater food, ind it is rare that we find him ignorant of what sort of an anmal will turn out well Rare tuo, is it, to find the pig badly bept.The "pise first, and family next," is the motto of many. "We had better be pinched in sumner than in winter," was the expression of one who practiced thas principle.Still more rare, therefore, is it to find that the cottarer's judgrment and care are thrown away. The indatidual I alluded to abuve is an instance. The mg, though of the shorteared breed, at 12 months old, toole the first premium at the Wetherhy mectngr, as the "hest fat pres;" and at $1 \overline{5}$ months produced 440 lbs. of bacon.

At the last mg sale in this neighhourhood, four young sows of the lev. Mr. Higguson, fetched $\mathbf{t} 75 . ;$ and three, at three months old, sold for $\pm 45$.

Of the value, however, of our various brects of swine, the American farmer appears to be aware; hence the large importation of each sort into the new worlh, and Mr. Allen's tour wall no:, I jresume, dumaish the demand.

In brecding and trainine the house, the English farmer lans athamed the lughest jossible standing. The ligglish race horses and hunters, carriage horses and catt horser, are the admeration of the whole world. The extent of the stoch of Enflish horecs may be judged from the fact Enat one English deaier, (Mr. Elmore), has cngaged to supply the Frenchi govermment wifi ${ }^{3} 5(6)$ cavalry horses in thece moinths; and the guality, from the circumstances that though the agrecment is now nearly ccapleied, our onn stocle is so far from being injured, abisoluteby relieved; (the horses sent being those liybrids, between: the lumter and the chapman, which are the brecders' "wecds") and that cuen the horses rejected by the inspecting officer, are readily sold at a inuch lugher price than the government gives. (Vat. Nimrod's Forcirn Sporting New Monthly Magazinc, No. Sijo, page 2 N()).
Tho pure bred ammals of cach class are dept at home at auperior prices; the race
horse varying in price from hundreds to thousamds; the humter from fiju. to 5000 . the carriage horse from $f^{\circ} 30$. to $£ 100$., and the cart horse from $£ 5$. to $£ 40$.

Of the permanent improvement in the sonls of Finglame, which liave been made Withu the last century, but light mention can be made here. Amongest tle most im. jortant of the means used, are draining, sulsonl ploughinge, urygation, and warping. I) anning, irruat on, and even subsoil ploughs ing were no doubt known in the olden time; their extenswe adoption, however, as a means of fertilizing the soil, is a modern umprowemem. 'Jhus, though English fara mers hase known fur ages, how to convey water from one place to another by a drain, we do not find that it was ever employed to thoroumhly alter the constitution and general temperature of a soil. It was not, then, thll the general reactions in the spirit of agriculture took place, till 'Tull, by fanning the spark into a sudden flame, set others to thak as woll as humself, and till hakewell had applied the promejple io breeding, that it began to be understood fully. The labours of Dr. Anderson and Mr. Eilkington, (17(il), showed at once that it was an agent which, if properly used, would be of an immeuso benefit, and hovo it should be used.Since that time it has assumed the shape of progressice system, dependent on scientific principles, anil as such has improved in its practical detants and in its results.

The advantarcous effect of draining upon heavy soils, must be just as great as the injurious effect of too much water. What these evil effects are, Professor Jolinston, in his Lectures at the Durham University, has shown; and Dr. Madden, in an claborate paper in the "Quarterly Journal of Agriculture," for this month, (December 1881); shows anost beautifully the mechanical as well as the chemical action by uhich tod much moisturo injurcs the vegetative prof cess. To quote from cither of these authorities in this hasty shetci,' is not in bur jower.

The grood effects of irrigation and warping ; bothmerely systems of applying weak liquad manure in inmense quantitics, and of the subsoul plough as an instrument by which the water is peririted to diffuse itself more gencrally through, and the atmosphere to act t.ponthe tenacious subsoil, so as to malie a clange as it were in the general character of the component parts of the soil,* may also be philosophically, demonstrated. But it is in cach case mancecssary. Wehavo the proof positive in millions of acres. Thus the ieus of Lincolnshire, Ifuntingdonslure, and Cannhrulgeshire, which 50 years ago were stagnant marshes, are now luxurant pastures.j Cluat Moss, (Lancashire), in IE:0, a yawning morass, and now a golden cornfield, studiled wht incipient villas,t and the statements of Mr. Denison of Kilnwich i'ercy, (Transactions of the Yorkshire Agricultural Socity), of inn Rev. Mr. Craft, (lournal of the loyal English Agricultural Socicty, vol. ㄹ, p. 3i2), of Sir James Graham, (Journal of the Ruyal English Arricultural Suctetiz vol. 1, p. 3? ), and of the author of Mritisi IIushandry, (vide I'amphlet on Land I)ramater, (Ec.), eximbiting, as they $d o$ a change from co:nparative sicrilits to fertifity,

- Vil. Esideace of John Smith, Esqr., inventor of the sul.suil phough. Also, " Statement of 1. I. Kennedy, II. P." befure commillec of the Honse of Commons, 1937.
$\dagger \$ 00,000$ acres of zhe Linculashire fens have been icclamed. In olier counties many acres have becn smilarly icelaimed. 25,000 percs of Deciang fen arc drained by zwosicam enginem of 60 and so horse poner.
i Via. Fividence of JI. J. Elis, Before IIomse of Commors, 1837.
from a nominal to a fair rent, are practical |future a golden one. Such prospects, we evidences of the vaine of the permanemim. , are inchaned to beheve, are not delusive, not provements prodaced by draming, warping, merely because it is matural to louk through irrigation, and subsot phoughing. They are ; the past to the propective, and it is natural evidenees 2oo, whelt whe they proless to record what the system has done for udisduals, are really illustrations of what it is duing for all.

Such, then, is the brief skatch of the adpance made in the several depariments of Finglish agriculture up to the present perood. Of the whole progress the one comey of Lancoln is a lucid epitome. Drvided into turee natural portions, the fens, the feaths, and the roolds, the womer of wheth, is years ago, was an umpolitable marsh, and the latter, barren sheep-walls or mserable ontlands; yet $m \mathrm{w}$, by the aid of draning, 2013,040 acros of the fens are laxariant pasturce, which bear a heavy stock of as fanc catte as can be-met with in Baghand: while the wolds and the heaths, by the adoptom of the turnip and clover culture, and the use of bones and rape dust, semp to the tnarket commess flocks of sheep, and as fine samples of wheat as can be tound any whore

Thus we learn from the evidence of Mr. R. J. Atkinson, Mr. Francis Isles, and Mr. Tohn Houghton, (vide "Compendum of Evidence berore Committee of House of Commone, $183 x^{\prime \prime}$ :), that on the whole of the lands from Louk th barton, where thrty or forty years ngo tehat was scarcely hamon, and the fand was, generally speaking, uncultitctod, with improwenent has heen made, even within ten lears ; that 25 to 30 hushels of wheat is an arerage cron; hat it is of a fine quality, and can counpete in the markets with that grown on strong lauds; also, that wheh clay fand has been drained, in so:ue districts it will beor green crops.

And the genoral results of the same agency throughout England are, that wheat, instead of beigg a Juxury confined to the rech, is now the staff of the paor man's stremrith. The quaking morass and the arud moor wave with the golden grain, and the acre wheli) formerly gave bacl: four tanes the seed, now recturas it from eirght to ien fold. Instead, toó, of winier beme a scasoa sf starvation to the cattle, when existence was all that could be hoped for, it is now cssemtially the season for fat and picaty; for of the turmp rukivation has gwen thin gramer the mower of increasing the gramity, the slitl of the breeder has equally increised the gamhly of his stock. Thas will he seen from the eseimated weight of catile and sheep at Simatiofiehd market, at dirce different periods, hy Davenant, MrC:alloch, and Yomatt:-
1810. Davonant estimates catile at 20 st. G.lbs. Sheep and lambs, 2 s!nme cach.
1830. McCulinch ostmates catte at 39 st . 4 lbe. Shecin and lambs, 3 stone $\$$ lis.

18io. 广ountt entimates catile at If stone 12. Jis. Suceja and lambe, G st. 6 ills.

But all these may be sumant up in one geand national result, that rriale are hate seaxed in mame and in munhers uer lanee is:croased still faster in uectht asul in the means of lifor

Such, then, is a brief alance at the progiens of Fingtish agricnture. Jriv:al as has been the recerd whod we have been able to gite of it, suffic:cnt of brib ranse and efficet has been develonedia tive history of the past, to make nur proathery for llic

[^0]akso for the obyect to assume a tinge from the medtum throngh which it is viewed, but hevause it is an axiom that like cathses prodace like effocts; so the moans whel have done so much for agriculture, being continued in oper:tion, it is fair to presimbe will yet do more. And that the same agency "Ill commat to operate, we may the more cately julye. because nearer we look to the present, and mure we see ats eflects. Thus we know that since the commencement of the present century, our produce has increased faster than our popalatom. Between 1800 and 18:0 this is evilem, but it is more so from 1 S ?i) to the present time. Thus even Mr. McCulloch says, "The price of wheat in England, at an average of the ten years encing with 1820, was no less than 83s. Gud. per quarter; its average price has since, as we have just seen, been reduced to 56 s . 11 id. per quarier ; and yet, notwithstandmg the tremendons fall, a most extraordinary improvememt has taken place in agriculture since 1600 , so much so that ace somp provide for an adhitionnl ;impulatiom, not only wathoul any incrcase, bul urith a rery considerable diminntion of importation."

If we hol, however, from 1830 to 1510 , we see still more clearly the oporatuon of the spirit of progression; and in the induidual :ma united efforts of the agricultursts, in fostering every germ of improvenent, at thes present moment, we have a stll surer evidense that it is not yet inoperatito. It we know, thes, that the wheel of inprove. ment has had an impotus, and that that impetus has kept increasumg tep to the present time, may we not conclude that it will not yet stop?

But there is anather consiberation which i:daces us to picture bright prospects for agricuiture. The progress wheh las l:een lately madn has not been a progress of extension of the practice merely, but an extenswat of the haowledige of the science of agroculaure ; for if we !onk to the twenty years precedur 1500 , "e shall find that $16 ; 7$ onclosure bilis were passed, and that $3,005,910$ acres of land were brought into calhivatuan, whe in the te: years atter dse(). oally 1s6 enclosure bills were passed, and 3H. $\mathbf{4} \mathbf{s} 0$ acres reclaumed; and yet is is a remarbable fart, that the necessarkes of hef were mare plemiful an the latier jeriod than in the tornier.
The adianec, therefore, that Jias licen mane is an adsance tiat camot be foreroten. It is an arhife conent of the mind oner the mys. teries of matter; and now, that tise frut of the romquest is tasten, it will incite to other :nd more cxienswe cxplons.

But while the past performances and pre. sem frimoples of arriculture cutule us to lwhd out such prospects, and to aubeypate w:h a hope amouning in convetion, that they will be gloriously realized, we mast unt forget that the brightest olject has a shatdow. So it is our duly to nutire dhat cren now a cloud hangs atout the horizon, which by hreatening the glory of the day, himows a partal grown over the hrgituens of the marimg on ihese prospects. Than, wi:h a full knuwleige en what has been done, and what may yet br iome, of be be peranted to use the manse meme, the bungiali farmer is. at the frescia tume ropressed in has evertions by a fear which ts not whthout some foundation. The munense eftorts made by a certaus class to depreve han of the protection, on the fath of which he has tmried his captat in the mprovement of the sai), is this foundation. It is not our olyect in discuss themerits or demerits of uefrectrade uicory;
so far, however, as it interferes with the prospects of arriculture, as faithful chroniclers, we must allude to it. And that it should in some degree mar these prospects is not strange, when it is considered that the declared olject of the theory is to reduce the price of the English farmer's pro ducts to a level with those of the Continent, and the declared effect (vide Lored W. Ruseill's sueceh), that two or three millione of acres of land must go out of cultivation ; and according to Lorf Spencer, that even the good land would go ou: of corn cultivation, and be converted into pasturage.
Knowing, then, these designe, knowing too, that in his presont situation in society; with heavily taxed soils, and with dear labour, he cannot compete srith the produce of the untaxed soil and cheap labout of the Continent; and that the land upon which the has invested the most capital in improve ments or in tillage must suffer first, because the interest of this capital has to be repaid by the increased crop, and because the management of such solls is the most expensive - (as uatural deficiencies cannot be supplied artificially without expense) ; knowing, we say this, is it possible for him, at the present time not to feel misgivings to hesitate, and often to finally rolinguish those improvements which, were he sure of reapjng a-fair return for his chpital, he would undertalie?

Whether or not it be proper national pom liey to experiment with such a great and important interest, and to produce so much certain evil for an tuhcertain good; whether or not at be justice to unroof one linuse to repair another; and whether, or not, Mr. Van Buren's opinion, that "nothing cant rompensate a untiom for a dependence upuon others for the bread they cat." be a fatlacions one, 1 leave. Thus much, howerer, we are compelled to say, that the very agitation of the queution, and the possibility of a measure beine $y^{\text {ased }}$ by the kegishature, which would redure the farmer's produce to a rate lower than he can affirut, has a temdency to mar, in some degree, the present prospects of Bughish ayriculkure, and to check that spirit of impratement that has already secureditn Eugiand, along with its fat increasing population, a stall faster increasing production of the necessartes of life; athat his cutained, it is sad, that pophlation is the measure of a proun s prosperity; without it, the index of is ruiz.
Whas, then, is the clond wish by threatenay the fusure condition of agriculture, throws a partal glomm over its present prospects. We say a partial gloom, because we have every assurance that it will soon pass awnas. The reasons adduced at the commencersent of this partion of mar subpect, incliae us to believe that bright prospects have yet ta be realized; and a knowcalge of the position which the friends of ascricmare hold in the country, the exertions whel they have made to promote its impro:ement, and their knowledge of its importance ay a mational intorest, conrinces tis that this cloud will nothe permited to destroy them. Had this "heaty how and armat iliceluragement" heen contuphated botore Enplish arrsiculture had assumed its present standing as a acionce it might perhaps have heen rarried into effect. If never can now: Ignorance nad apathy are no Jonger tite clairnciexistics of the guardians. dit the soil. The lamps of science shed their light neme tho once dreary waste, and in it the statesiann sotrs the secds of rational independence and prosperity, and the philosopher finds food for the snind; and it will not be made the sulject of an experiment. Never will such a great interest be risked for dhe sahe of trying a norel:theórya

- This then assumed, what a fiold opers to our view. By developing the same spirit of prograss which actuates modern science, agriculture has become identified in practple, and comsequently equally identitied on with it. Moved, then, by the spirt, and dirocted by the pioneers of science, who can point out an end to its progress, or say, "thus far" to its prospects. Bufore the philosoplic mind, whatever may be tts favoured sphere of action, there is ample food. In animal and veretable physiology; in the formation, classilication, constitution, and fertilization of soils, and in the elncidation of, and the supplying the wants of segetation, much has already been accomplished; but our best guarantee that much will yet be done. is the fact that much wants doing.
"Furinistance, we know tho structure and pectiliarities of vegotables, and chemical constitution and mechanicial process of vegetation; but we are ignorant of the elements of vitality. We know that certain soils are niore fertile than o:hers; we can trace the constituent'cléments of each, and discover external or machanical causos influencing the fertility; but of the essential principles of nutrition-the elixir vita-or of the combination best adapted to the wants of the vegetable life, we can scarcely bo said to know tho least. We may apply this ignorance to a single vegetable, to a single soil. How much, then, has to be accomplished before it be removed in toto?
We know something of tho uses of animal and vegetable manures; but how can we know their proper cconomy till the mystery of vegotation is more clearly develuped, and the constituents and condtions best adapted to special cases ascertained. Much, in fact, has yot to be developed before the essential elements of the soil, the operation of each constituent, the operation of various manures, and the effects, mechanical and chemical produced by certam crops, are clear to us; yet these must be known before arriculture reaches its fair and legritimate standing as a zcience, and bofore we can produce the condıtions most essental to fertility.

To the practicaliat are dutios no less urgent. It is for him to banish from his vocabulary the word best; to think nothing good beeatuse it is old, and nothing worthless because it is new; but to lend an observing eye to its prooi, and to endeasour to promulgate the truths that practical observation or scientific knowledge thay have taught him. For moch that is known has yet to be applied to practice. Thus geology has given us a key to the formation, nalurc, and properties of soils and their basis ; and affords us, as is evidenced by Sir J.'V. Johnson, (Journal of Royal Amriciltural Socicty of Eingland, vol. 1, p. 273), such practical results, as "1. The snowledge of applying linac. 2 Laying down fields to advantuge to grass, and when and how to phant wheat 3. What trees to plant in each stratum."

Chemical analysis, too, supplics us with the relative proportions of the constituens of the soil, znd shows us what clement or earth it is deficient in. Geolory again teaches us where that clement is round ; yet hiov seldoas do we fimb this method of improving the soil resorted to, allhough Davitlotig since made known, that "The best natural soils are those of which the materials have been deriyed firoun diferent strata, which have beco minniely divided by air and water, and are intimately biended togecher: and in mproviag soils artaficially, the faxmer cannol do betler, tian matate tice process of nature. The materials neccessary Sor. ilite parpase ase scedom far distant;

- lialk, and beds of sand and erravel are commonly below clay. The habour of unproving the texture is repad loy a great permanent advantaye; less manure is required, and its fertilay insured; and capinal hidd ont in this way sectres for ever the productiveness, and consequenty the value of the land." (Lecture, f. 241). Althouph, too, we are avare, from the urnings of aronenharal ciemeste, of the high calue of liguad manase- ${ }^{1} \mathrm{hat}$, in fact, 1 th . of urite will produce 1 lh . of wheat, how seldont do we see it proserved at all. 1 write. in the Prize Essay of the llighand Arricultural Suctety of Scothand, (Quarterly Journal sf Alericaltare for this manth, December 1541), calculates that as mum is lost as would, if applied, have an effect equal to the whole of the line, raje dust, and bones which are c. mumly ured.
J. 11.

North Dcushton, Wretherly,
Wuthshae, Deecmber 31st, JEnl.

## WHEAT FLY.

Professor Low, in his "Elements of Practical Agriculture," notiess this insect in the following terms:-
"Certain flies also attack the wheat, at a later stage of its irrowti. The Cecidramisa Tritici is a thy with an orange colomred hody and white wing about the month of June the female ascends the ear of wheat, and deposites her egrss in these by means of a fue trum, and in a few days she pershes. The promeng being hatched in the ear, feed upon the grain. They are very suall, from ten to fourteen being somehmas tound in one grain, and are divtnguished by being of a bright orange colour- lhey do not extend beyond the grain in which they hate been produced; but soveral grains being thus consumed on oarh ear. the damage done is very considerable. The larva, after a period, fall down to the earth, in which they burron, and remain there untal the following smmmer, when they ascend from the carth in the lorm of the beautifal ify we have mentioned."
"'rofessor Low does not mention any remedy agranst the ravages of this ily, periaps because the injury produced by at in Britane is not very general or extensive. The wheat is in ear in Englamd carly in Junc, and the fly seldom appears pretious to the 2jth of that month, about the same perion which it inakes ats appearance here. This is the circumstance which we believe saves the whent m Britain from muci injury by this mseet. Chere is also more wim, and the crops linec a freer circulation of ar through then in Dritam than in Canada; and the fly aeser moves from its place of conccalment, about the roots of the wheat, unless the weather is perfectly cain. If there is the slightest agritation of the crop by with, the ny zoves not irom its place of hiding and repose, and as at :s only about sunset in the cvenug and sumerse in the momang that it cions move to deposit its $\mathrm{cgra}^{3}$ in the ear. If the weather happens io be wiady for a few days anomt the ime of the Wheat coming anto ear, it may save the crop. The fly cand do no harm af the cere os ont for a fow days; the glums become hrid and lice tly as mable to puerce it with its trunk. We have aleady: recommended sowing wheas carly in the fall, in drilis, on land
prepared by summer-fallowing, and lined if yossible. If thas was to become a general systen, and that wo were to introduca new varieties of seed that are known to rosist the lly, we might ratse good crops of Wheat in Castern Camada. But if we still persevere in cultuate in our usual slovenly manaser, with our old sced, and growing more weeds than wheat, we can never ex, pect to rase a profitable crop of that grain. We have seen crops of wheat this year, which, if yerfectly safe from fly aud rusf, would not pay for cultivation. These crops were thus bad an consequence of insufficient draining, and injuain hous cultivation cevery way.

Mlack the worst colocre for Paríriva woom-won in the owsy An - There is nochung that will prove this evil more than by observag the black streaks of atshep after beitustia tropical chmate for any lengrh of time. It will be found that the wood round the fastenings is in a state of decay, while the whte work is as sound as oien; the planhs that are pamed black will be found splat in ali directions, while the frequent necessity of canlling a ship in that situation, likewise adds to the common destruction and 1 am fully persuaded that a piece of wood panted white will be preserved fromin peristurg as long agam, if exposed, to the wealuer, as a suntar piece panted bluch, especally in a trupleal chmate. I have heard many men of comsderable experiznce say that black is good for nothingry on wood, as it pusserses no body to exclude the weacher. Thns 18, mdeca, partly the case ; but a far greater evil than this autends the use of black paint, which ought entirely to "cx clate us use on any work out oi doors, viz: its properts of absorbing heat. A black ainpoished surface is the greatest absorber and radator of heat known; white a white surface, on the other lami, is a bad absorber and radiator of the same ; consequently black pamt is mare pernicious to the wood than white. Wool having a black surface, will imbibe consdetably more heat in the s:me tenmerature of rlimate, than if that surface was white; from which clrcumistance we may easily concludr, that the pores of wood of any nature will have a tene dency to expand, anit re id it in all directions, when exposed pader such circumstances; the water of course being admitted, causeis a gradual and progressive decay, which must be imperceptibly increasing from every change of weather. The remedy to 80 groat an evil is particularly sumple, vizo $h_{j}$,using. white instean of black panat, which pot only furms a betier surface but is a preventiye to the action ci hent, and is more impersious to the monsture. The saving of capenso would also be minense, and I im convmed that men of prectical capericnce will bear. me out in my assertion. - Tramsactions of the Sucicty if Arts.

Mutvas Surport. - The race of man: fand would peesh, did they cease to aid each othes. From the tume that tre enother buds the chide's head, thl the moment that s.mac hiad aswistant "ipes the death-damp; izom the brow of the dying, we comiotecisist whout matual help. All, thercfote, that need aid have a right to ask it of their feliow mortals; no one who iolds the poner of grantinn can withold it without grilh Sir IW. Sccit.

## FATIIENLNG HOGS.

Some time ago, we have seen a report of nn experiment made in fattening four young hogs. The experiment commenced on the $18 t$ of Decemier. The horgs wore woighed, and two that were to lie fed of raw Indian corn, weighod together 185 lbs ., and had pach daily, one gallon of shelled corn, peighing 7 lbs. The other two hogs weigh. ed together 173 lbs ., and had each daily, five pints, or 3 l lbs. of good Indian corn meal, pade into hasty pudding by boing boiled in water. The hogs were fed twice a day:The meal when made jnto hasty pudding, preighed about 30 lbs . The pudding when given in the evening was warm, but that given in the morning, having to stand over for the night, was cold. The hogs were killed and dressed on the 4 th of January. Previous to killing, they were weighed, and ihose fed on the raw corn had together only gained 25 lbs, while those fed on half the weight of cooked meal, had gained 44 lus. The experiment continued 34 day. The two hoge fed on raw Indian corn, consumed together $8 \frac{1}{2}$ busleels, waighing 476 lbs , and increased in weight 25 lbs , giving scarcely 3 lbs . of pork for a bushel of corn consumed. Those fed on the hasty pudding, consumed 5 bushel and ten quarts of cornmeal, and increased in weight 44 lbs . Weight of meal consumed 238 lbs ; ; hence giving one pound of pork for five pound of meal consumed, or about 8 lbse of pork for the bushel of cornmeal consumed. This experiment is not very encouraging to farmers.
The following report is from The Quarterly Journal of Agriculture :-
"Fattennig of Swine.-M. Bengtrapp, in his work on the fattening of swinc, mentioned several experiments which serse to show the fattening powers of bolled carrots, potatocs, and some others. He brought up separalejy; five couples of pige, and olitained, after a certain leagth of tume, the following results:-

"These results of the experiment are unsatisfactory: because it is not mentioned whether the pigs were all of the same age and weight, nor is it stated whether the quantity of 'rood marked in' the table was as much as the pigs could consume. We have always believed that peas were the most notritive food that could be green to pyse, and this experiment confirms the behei, as may be scen by comparing the relative increase of weight obtained frum the various kinds of food, viz. 103 gallons of peas gixes an increase' of 22 stone 7 lbs , or over $\$ \mathrm{lb}$. of increase of pork froim 1 gillon of peats; whercas from boiled carrots 25 stone 2 lh . of increase were only obtamed from 328 gallone, or near $1 子 16$. from one gallon, giving the adrantage to the peas in the ratio of about $2 \frac{1}{2}$ to 1 . The next most nourishing food is buck-wheat, which givos over 2 ll . of pork from one gallon. Botled potatoes are next, giving $1 \frac{1}{2} \mathrm{lb}$. of pork from one gallon. And the lowest quantity of pork obtained was from the balls of wheat, which is as low as about $\bar{z}$ of a lb. from one gahon

Flour would, no doubt, fatten better than Wheat, espectally if the feeds were made into small dry lhalls of dough."
The ahove exporiment will, when compared with one made in the United States, in fattening hogs on Indian corn, serve to show that the latter food is far inferior to the food given in the experiment made in France in fattening loge. Wo certainly have some doubts of the accuracy of the French experiment, that the results oftained from the food was too large. We copy it, however, as we have found it reported, altering only the French measure and weight into English, which we think we have done accuratoly. The Dicalitra,a French measure-we have calculated to be about nine quarts Imperial measure. There is such a great difference in the reported results obtained from experiments, that we place very little confulence in most of them, unless where the parties are known to us, and the experiments carefully made. The breed of animals will have a great influence on their fattening properties, and therefore, in all cases of exppliment, the particular breed should be described, and their shape and properties. There will often be found a great difference in the aptitude to fatten in animals of the same breed. We have scarcely ever seen what we would consider a satisfactory reported experiment. Some most essential points are invariably omitted. Heace we are not often capable of outaining much useful instruction, that can be relied upon, from reported experiments mace in any branch of farming, and we think it greatly owing to such experiments being made by individuals who are not generally practical farmers.

## RECEIPT FOR DIPIHGG FIFTY LAMBS.

One ounce nf arsenic to $\overline{5}$ lbs of soft soap, boiled in 9 gallons of water, then mixed with about 15 gallons or more of cold water, to make it the proper strength, which is ascertained by dipping in a live sheen-tick, and afterwards putting it on the palm of the hand; if it lives about one minute, and then dies, it proves the mixture to be of a proper strength. The dipping trough should be on the inside, 3 feet 6 inches long at top, and 2 feet 9 inches at bottom. Wideh at top 1 foot 10 inches; at botom 13 inches; depth $22 \frac{1}{2}$ inches. A lid to fall back, which is supported by two legs, high enough to keep it in a slantug position; on this the lamb is laid, after having been in the mixture, and rubbed for a nimute; and as rails are fastened to the lid, all that rune, or that is squeczed from the lamb's flecce; returns to the trough. It is scarcely necessary to ohserve, that the utn:ost cantion must be taken to prevent any accident arismg from the use of so large a quantity of so deadly a poison. The ressel used for boiling it, should not be used for any other purpose.One boiling vessel might do for the vge of a whole parish. The time of dipping the lambs in England is when the cwes are shorn, and when most of the ticks in the flock will be destroyed.-Hallyard's I'racti-

THE ROYAI, ENGLISI AGRICULTURAL SOCIETY.

Mr. Mires, M. P., presonted to the Eng: lish $\Lambda$ grtcultural Society, a tabular view of Manures, with an account of their properties and modes of application, drawn up for the use of the agriculturiste, by Jolm Rolinson, M. B., Lecturer on Agricultural Chemistry and Rural Economy. The author prefixes to his enumeration of manures, an introduc: tory illustration of the two principles on which his theory is founded. The first prin: ciple is, that whatevor proximate elements are found by analysis in any particular plant, must be again provided for it in the manure which is appliod to promote the growth of another individual of its species: and the second, that no substance cannot act as a manure, which is either not applied in a liquid state, or capable of being dissolved by the plant before taken up by it into its pores,
Mr. Ronert Rigg, F. R. S., àduressed iq the Council of the Royal English Agricul. tural Society, a communication on the conditions under which experiments in agricultural sciencec should be made. Mr. Rigg, iq̆ this paper, observes:-" Fully persuaded as I am that the reason why agriculture has not derived much, benefit from. chemical science is, that the axperiments upon which the chemical philosopher has based this theories, have not been made in a manner suf: ficiently practical, that they have been imperfectly examined, that analogy has too frequently supplied the place of inductive evidence: and that the kaowledge derived from practical experience has not been sufficiently recognized: and am fully copvinced that almost every farming operation will derive benefit from the evidence sought out of well directed experiments, when carefully cxamined in all their parts. I trust that pe endeavour will be wanting on the part of tho. leading members of our very important so. ciety, to induce scientific and practical mer̃ to make experiments which have a reference to the discovery of principles applicablọ to agriculture ; that they will use their influence in impressing upon each experimentalist the necessity of gttending strictly to What is taught only by eacherperiment. and not entangle the experiments with ex: isting theories."

The foregoing noservations are calculated to instruct experimentialists in Canada ais well as in England. Vast benefit may bé derised from experiments condycted caréfully, and reported exactiy as they have becn cond:acted, with the-results obtained. Unless this is done, experiments will be uscless. We have scarcely ever sieenä report of an ce:periment imade in agriculture, that something would not be wanted to enable us to furm a correct and clear estimate of the true results of the experiment;

A pleasant and checrful wife is a rainbow set in the sky, vien her husbarid's mind tossed with storms and tempests; bitt a dissatisfied and fretful wife in the hour of trou;
ble, is like a.thunder cloud charged witi
electric fuid. At such a time, a "!wise man will keep clear," if possible, in order to avoid the shock.

The Tunnif Fly. - I lose no time in pommunicating to you an unexpected discovery, by means of the mierascope, of one of the causes of the failure of turnips, for the fact is of some importance. The farmers' two "enemies" are the fly and the mite. The latter, "tarn fera quam minima," as mischievous as minute, is described by Baxter ts !! a little larger than the cheese mite, and but seldon observad." Numbers of them attack the stem of the infant plant at the surface of the ground, and hy oxtracting the sap, soon destroy it. The farner seces his crop disappear, and is at a loss to account for the cause. "Ihhs insect," adds Baxter, "is most prevalent in newly enclosed land." My own crop of turnips this year, would certiainly have fallen a sacrifice to the mite, and the "newly enclosed land" would, of course, have been condemned, had I not fortunately discovered by the microscope, that the almost imperceptible dust, which was thickly sprinkled over the seed, was the very enemy in question. I immediately turned to Baxter, who describes the mischief accurately enough, but is very far from supposing that the sower is to blame; yet this is juist the fact, and thousands of jnites placed upon a slip of glass, and millions of eggis, to be hatched just in time for the common work of destruction, may give the fatmer a lively idea of looking well to his seed before he condemas bis land. The process of cleaneing the seed is very simple. All that is necessary is to shake the secd rather bristily in a rough linen bag, and then to place it upon a bair sieve, muder a stream of water from the punin. The unites, preyiously killed by frietiorit in the bag, as well as the eggs, are entirely waslied away; and the seed, after heing placed in the sun to dry, may be drilled without the slightest chance of an attack fron the mighty slain.'J. B. Reade, Stone Vicarage, Aylesibury
We have found that steeping the seed in a strong decoction of tobacco water, had a good effect in preserving the turnip plant.

CAST-mon Buidengs.-Buildings of castiron are daily increasing at a prodigious rate in England, and it appears that houses are about to be constructed of this material.As the walls will be hollow, it will be easy to warm the buildings by a single stove placed in the bitchen. A uiree-story house, contanng ten or twelve roons, will not cosit more than $£ 1,100$, regard being had to the manner in which it may be ornamented. Houses of this description may be taken to pieces, and transported from one place to another, at an expeise of not more uhan $\pm 25$. It is said that a large number of castiron houses are about to be manufactured in Belgium and England, for the citizens of Hamburgh, whose habitations have been burnt-MIVing Journal.

Power of Stear.-It is on the rivers, and the boatman may repose on his oars; it is on the lighways, and exerts itself along the courses of land conveyance ; it is at the bottom of mines, a thousand feet below the earth's surface; it is in the mill and the workshops of the traders. It rowes, it pumps, it excavates, it carries, it draws, it lifts, it hammers, it spins, it weaves, it prints. Webster's Lectures.

Jrwisu Drvorce. . Jewish process of dirorces, way! an old Englich publication, is
short and unattended with expense. Each party enters the synagrorue attended by two priests, whero after stating the cause of difforonce, the woman is asked if she is willing to part with her husband, on answering in the allimative, he throws at her the bill of divorcement, each spitting in the other's face, and exclaininge "Cursed be they who shall wish to bring us together."

## HoME DISTRICT

## agricultural society

## UNDEI THF Pathonage of

## Ifss Excellency the Right Mon.

 Sir Charles Magot, dec. de.PURSDANT TO PUBLIC NOTICE, the Officers of this Sociely met at the Court lionse, in the City of Toronto, on the 10th day of August, 1842, for the purpose of making the necessary arrangement for the Autume Fair and Fat Catle Show.
The President Enward W. Thomrson, Esqn., Warden for the District, took the Char, whereupon it was Resolved, -
That the Autumn Fair and rat Cattle Show, be held at the City of Toronto, upon the piece of ground in front of the New Gao: and Court House, on WEDNESDAY, the twelfih day of October nex:t, when the undernentioned Premiums are to be awarded for the following Stock :-

SHEEP

|  |  | fest. | Second. | ra. |
| :---: | :---: | :---: | :---: | :---: |
| " | Onc Shear, | ${ }_{1}^{2} 110$. | ${ }_{1}{ }_{1}$ | 10 c |
| " | Aged...... | 1. 10. | 1. | 10 |
| " | Lamb, | 0. 15. | 10s. | $\overline{\text { Ts. }}$ |

Best El. 10 EVes-pex of two. Third 10 second $£ 1$.
 young horses.
horsfs vider thier tears oid.
Best $£ 1.10$. Second $£ 1$. Third 10 s.
makes vimp thafe tears olp.
Best xil. 10. Second £1. Third 3.0 s.
horse or amare cijer two tears oid.
Best E1.10. Second CJ. Third 10s.
spring fonl or filly.
Best fl. 0. Second 15s. Third 7e. 0 . young cattle.
bull.s vaner two years ofid.
Best El . 0 . Second 1 js . Third 10 s.
meifers wner two tears odd.
Best fl. 0 . Second 15 s. Third 10 :
Best fl. 0 . Second 15 s . Third 10 s. spring heifer calf.
Best fl. 0. Secund 1jes. Third 10 s.
fat cattle and sheer.
pair of fat cattle reamed and fed an tue howe mistuct:
Best $52 . \quad$ Scond $£ 1.10$. Third 1. fen of thinee fat sheef fed in the home mistrict.

SWINE.
mons.
Best £1. 10. Second $£ 1 . \quad$ Third 1 Js . sows.
Best £1. 10. Second . C1. Third liss.
Persons intending to become competitors for Premums, are informed that Pens have been constructed for the purpose of confinang the different animals, so as to prevent therr straugng or beng unnecessarily driren about; for the temporary use of which the compctitors will be charged one shilling

A picec of ground adjoining tho Show Yard will be appropriated for the exhibition of Stuck for sale, and an Auctioneer will' l a in attendance to offer the same for disposal:
As an encouragement to those enterpriz: ing farmers who have already imported Stock into His Drovince, and as an induce. ment to others to follow their example, it has becn resolved that if any animal entered for compectition be decened, by the Judyes,
wortly of the first worthy of the first l'rize, and it the owner of the same prove to the satisfaction of the Judges, that such specumen of Stock has bean inportod from Great Britain siace the last Autumn Far, he shall upon producing certificates of the are and breed of the animal, be entitited to the thanks of the Society, and rece:vo double the amount of the Prem: ium which would be ollerwise awarded.
No person shall be allowed to compete for any of the above Preniums, unless he shall have been a momber of this Society for at least four months previous to the day of the Fair, or pay the sum of fifteen shily, lings upon entering his Stock.
The Society have entered into such ar rangements $m$ the selection and appointment of Judges, as to prevent any itea of par: tiality.
No person or persons other than the Officers of the Suciety, are to interfere with the Judges when in the discharge of theit duties, hy conversation or otherwise.
In order to prevent any idea of partiality in awarding the Prizes, each competitor fot a Premium stall be furnished by the Secretary, (George D. Wells, Esqr.), with a nu: merical ticket, to be fastened to each ani: mal cntered for a Prize.
The Stock in the Show Yard will not until the Premiums are awarded, be known to the Judges by the name of the owner's of graziers, but solely by the tickets and nums: bers correspondng witi the Secretasy's list.
The Stock to be on the ground by ten o'clock in the morning, and remain until three, P. M. At 12 o'clock noon, the Judges. will comence their duties of inspection. and decision.
The names af the stecessful candidace-the Premiums they shall have received-and for what adjudged-will be publicty nnnounced by the President, at two ooclock, P. M., from the front stc;iss of the old Court House, apon Churchi Sirect, and afierwards published.
The Fat Cattlo and Shecp must be offered for sale to the butchers, belore the amount of any Premiam for the same shall have been paid to their awner's.
The Sccretary will be in attendance at the Office of Mesers. Wells \& FizGerald, 150 King Street, Toronto, at $100^{\prime}$ clock, on the morning of the Exhithtion, fur the purpose of entering the names of, and issuing fickets to tho various competitors. At 11 o'clock the Scerctary's lists will be closed, after wheh hour no further entry can, be made:

## A Plonghing Match.

Instead of a Grain and Root Exhibition, the Soctely have ordered that ai sum not exceeding fifeen pounds be appropriased for Prizes in a Moughing Match, tơ take place on Thursday, tho 13th day of October next; and that the following Gentlemen, Messrs. Torirnca, Gcorge D. Wells, Gibl, D. Sinilic, and N. Dawis, be a Committed to obtain a ficld of Green sward, and make thic necessiny arrangements, of which due notice will begiten to the public.
N. B. The above Committeo will mect at the Office of alcssrs. Wclls á FitzGerald, 150 King Sirect, upon Welnceday, the 7 th day of September, al 12 a'clock, A. M.
Any person having a suitable Grecnsward Ficld within five milcs of the City, will have the goodness togive notice of the same to the Secre. tary, George D. Wclls, Esqr., betore the 7th day of Scpiemberinext.

GEORGE D. WE[JS,

MONTREAK DISTRIC'I AGRICULIURAL מ"
We were present at a general mecting of The Montreal Disttet Agricultural Society, held at the Court Llouses on Frudity the 10th oif September last, pursuant to putbic advertisement. pilhe moeting was numerously Ahtitephed, and Carames Penaer, Esgra, the President being called to the Chatr the question submitted to the consideration of the socinty was-the expediency of petitioning the thegislature, now in Sessions on the sulbect of Agricultural protection, and What amouyt of duties it might be proper te recommend should be imposed on forougn fibricultural produce imported into Canarda. Aitter considerable discussion, the amount of dities considered necessary yas, determined upon being about twonty per.cent. on an average or the value of agricultural produce excupt whéat and flour, which was
 of Sir Robert Peel. Duties vere also recommended to be imposed on manufactures froma agricultural produce, such as leather,

 were named a Committee to prepare a copy of a petition sec, and the meeting adjournod to the following Tuestay the ?pth of Sepitembert to receive the teport of this. Commitlee. The Society met on Tuesday gursuantito adjournments and the petition prepared the Committee have been approvid of, the Sespetery was instructed to preparee petitions to the severai branches of the Legiglature, and that the President and Secretiaxy should affix their signatures to theng.on behalf of the Saciety, and forward thetin forthwith to their proper destination. dVe were rejoiced to see this respectable Society, come, forward unanimously to exs press their opinion on this subject, that is of so much importance to them, and the inter. cots which they represent. They may be accuend of selfish motures, but certainly any favi rup they ask for or obtain, will be of figual advantage to nime-tenths of the Canadian population. If they ask, not favour, but justice for e class, it is by far the most numperous clàses a this Province, and onc whose interesto lave been greatly peglected hitherto, though hey form the great bulk of the constituency fo the country. We trust the tipe is not fat s.stant when the interests of agriculture $y$ ill be better cafed for, bothiby agriculturist; and those whom they'mazelect to repres ent them.

## 2n EAGOURAGEAOME INDUSTRY. <br> 

A harbent purchase a onsiderable quantu: ty' of wooden-wares of various descriptions, añid'cccasionally, sum mer and wimter carringegs, they "would do beless prefer purchas. ing whatever they might require in lins Why of Canadian panatacture to that wivich was of foreign: iVe know that a large qiãantity of sumand and wither carriages and other articles made of wood, are constipely importfd inso Canada from the Unft-
ed States, to the very great injury of me. chandes in this country. Picto is a daity upon these articles, but not"of sumcignt amonnt to give encouragement to Canadian indusiry. " Parimers are well aware that it will bo for their finterest, that every other class of this community should be in a thrive. ing and prosperous state as well as. themselves. They do not wish for any unfair advantage. They never will ask fora groater degree of protection, than is provided for other classes, and their capital and ndustry. The agricultural class will rejoice to see every other class in this compumty in a ptosperqus condition, provided therr own intercsts ate protected and put upon an equal footing with that of other classes. If agriculturists cannot thrive under laws that will affird thetn equal protection to that which is secured to otherimerests and professions, they deserve to be poor: but until equal protectian is afforded them, they never will consider that they are fairly treated:

## NOTICE TO COLLIESPONDENY'S.

In our present number will be found wo ably and interestiag writtea communicatoons from our highly esteened friend and carreşpondent P. L. Simıuonds, Esqr., London, Eugland, from whon we have received two other communications, which will appear in our next. We beg to tender him thas publicly our sincere thanks for the unrivalled interest which he has manifested in the. prosperity of our Journal and the cause of agriculture in this provinge.
T3 The communcation of F. Jonescrame. too late for insertion; but will be published in the fioyember number.

0 $\boldsymbol{J}^{*}$ On the day previous to groing to prase, we received a coinnjunication from the Ina. Adam Ferguson of the vicuity of Hamiton, giving an interestingaccount of "The New York State Agricultural Show;" lately held at Albany, with other valuable information; which we were unavoidably o. ${ }^{\text {lig }}$ iged to post: pone until the issue of our next.

WT We hate becn réquested to state by Gso: D. FVells, Espir., Secretary of the Home District Agrisultural Socieig, that the Committee to whon was delegated the se lection of a suitable plot of sward, for the purpose of a Plougling Afatch on the 12 th Instant, have deemed it beneficial for the interests pf the Society, to pustpone the Match yntil ulext spring ; as the ground at that season, will be in much beter condition for the work, 10 show to advaptago than, in the autumn.
We highly approve oi this resolution, and fatter oureclves that the Ploughnig Match alluded to, will exbibit a greater rariety of inplements, and bettet specinncus of ploughing, and the largest assemblare of micresied spertators, than ever reae in atumdmere on a similar occasion of the kime in ple 17 rovince. We will talio occasion to advertio this subject egann.:

Errati:-Intheadvertisementof Meissrs. Howitt \& Ferguson $1 n$ our last, on pare 14x. for Staturiay the IEth, retd Thursiday? ine

## Coutemts of inforinmber. 

 Cultivation of Wheat insengland- K Kens English Arriculture, from our own:* Correspnindeit $P$. L. Simmonds, $140-47$ From the same oncthe proceedinge of the Agricultural Societies in Eug-land-Agricultural. Report for Cau-w: ada East.148Conclusion of Agrichltural lieport-
Female labour in Arabia. ..... 149
Poetry - Cure of Hydraphobia -$15 \%$
Field Mushrogms-Autumnal Leayes, ..... ific,
Original Communication T, The, Naw ..... 3\% ${ }^{14}$
Manures-mine as Manure. ..... 153
Concluson. of Mr. Hannam's Essaypercoron Euglish Agriculture, ..... $154-$ pin-5atWheat Fly-black the worst colour ${ }_{\text {wown }}$ for Painting Wood-work in the Air 15 fo, Fateinng- Wogr= Receipt for dipping
 Agricultural Society...:
The Turaip FlymCastron Bupdings Advertisement of the flone Dis- sum trict Agricultural Sóciety $\because \because 0$, ing Montreal-Wistrict-Agiculural Socic-
 To Eorrespondents Trostponements mo. of Ploughing Miatch

## 'MORONTO, NARKETS: : <br> Fur the Munth ending 1 Sl, October, $184{ }^{2}$,

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