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# $\mathbf{C U}$ LTIV A 


determaned, the opmiuns of persons anterested on having it convenestly and sumably phaced will be nsked, and recere consideration. We would suggest further, that a law should be pa-sted, obliging all catle, shecp, or swac hrought for sale to Montreal, slould be sold in the marhctphace un certam days-that a regular marhet nute should be publisled wethly, of all stock exposil fur sale, stating the tumber sultio achatis,
 head, and pur humarnd poundes for fat caule. It is high time that our pumcipal chtere, who wish to miroduce Enghish msthations, should adyy sume. Haug the the Eugholo phan wiha regard to Catite Markets. We would abou recomane nod that the same rembations should be atuphed with re cord to grain, hay, ned straw suld in markci, whol. "ue thuk might be radilg dunc. Statetueal re.
 gice some idea of ifs state, had sater, ot the beat

 an meterest was felt in the sulject by thuse whu pusess infiuence in the cumatry. The second
 mag. We shall see what gar Repretelutaice. "ill do for the interests of macolemils of thar constitucnts. We agan urge the neressity fur establishing a General Board of Agric:atare under proper regulaiuns. It is by means of sath a Buard, that the improvement ofour auriculare will be most certamy promoted. Thas buad "uald act for mas comaty, wo the satac phatuple that the Rus al Le,glish Agricuha.al Even.y dien for England. We have nut here the uaterads for such a Sucicty as the Finyal Emghah Agrat.l. tural Society, and we must, thentore, cstabinh
 ture, a Buard to act in the samer cal ar ty, firthe gencral good. They will have an excellent pre. cedent in the English Society, to drect them in their proccedings, for the gineral unfruvernom of agricatanc. Nu lucal swedens tian can be farmard in Camad, whll cuer predare the or re ral improvenent that might be cficted by it 13 nar 1 of Axriculture, who would have no lueal parial. ities or presudices, that are anscparable trum lo. cal suc, ches. We may aho, by ath manne, have lacal surit ics, hat thit what id be makt the com-
 if they obtained pmblic ast to cspend in premi. ams. We mest resperfulity wolla it the consider.
 this subione, that is of so much conserquence to the people of this country.

## ACKNOWLEDGMENTS.

Wo beg to acknowledge the receipt of The Colonial Farmer, whth the back numbers, :a mumbly periodical pilished at habiav, N.s, by R. Nugcut, and edred by Thas, Smath. The Farmer is affurded at the low price of tise shonlingsper annum, and ts worthy ot betug sujputtcd in an efficicur namner, whach at av donlit wit rcceive; at ono Agricillurel su:
cruded 250 coples-an cample worthy of tio notuce of war Camadan Asrccularal Suciotics in the support of thar own journal.
We have atho tho phasure tuachnowtedge the receipt of a fiw numbers of 7he Pictor Farmer and Mechanic, an Aericulural, Mechanical, Li. ierary, and Murcauble Wectly Juurnal; from whe masterly stele math whe above pernedicals are comadat led aud surfintict, wo have furmed no
 culung, and wisl. the pubholines mucla sucessa in their pa;rrut:c undertuhuts.
Surcly, thes a wonduful age for the diflusum?
 A lew years smee, there were unly sax agricul . tural yapers ith the limad shates: there are now nearly 50 , tw ine of when have catered the field the present year. As apecmens of thas years producum, we have recencd the limeth Autes Farmer and The Anerscen . Iertculturist, both pumated an the caty of New Yorh, an madily nambers, rach comaname 32 juges; and The Southern I'lantel, publathed at Nateines, State of Masmangh. Bullur at these permoderats would buar cumparison with The Allumy Culuontora gournal with wheli must of virr reeders are well acquamacd.


## 

Alhu"gh whe turas of uar jubt tal are cun. stidered to be moulcate by all, yht there are many who inm? riue that it may le combucted on the cre lit princil't and in confurmity with that Li.", hate acuacily or.hieel it, with the cuamhuas emphaciaualy startust the min in the face. In order that our preriodical might be bronght into nutier, cerer as great an axtent if cuantry as pwibic, we furzarked it to, maniy oil the credu syacm, tec acuall tharcfore request them to furtrard their sabscriptions at thirir eatioct onmernitare, through outr - 1sents, whil ths diat thay wili lear in mind
 oradugs hace wice pual jut muntity, to meet which, not wh'y requircs a numervors list of
 al supiort.

## subseriberc of 1he Farmen and Thecinanic.

The July numbrr closed wur curragement rith the Sulweriliers of that journah, cind tee srod thrm the Auyrost number gratuitously. If thay uish the remainitr of the volume of
 them, they teutad do wail to forteard the sul, arnin'unf fur the cnswas fuler numbers worki.

In an artucle whel appeared in the May num. ber of The Alliany Cultarator, under the head "Statasucs-State of the Country;" we obverved that the writer was in error in the statement he made respecting the nmount of duty to which foreign grain is subjected to in Rugland. The writer states that the duty on wheat is 100 per cent., or that the amount of duty is cequal tothe value of the article. By the Niew Com Law, which was passed hefore tho artele all:aded to was written, the highest duty on wheat is rot over 65 per cent., and it falls gradaully 10 only It por cent. When wheat in Eagland is at 66 . the quarter of eight bustets, it is only subject to a duty of 63. the quarter, which is ully 10 per cent. upon the procced's of the sale, and laves 60s. to the owner for hus wheat. When whent is at 72s. the quarter, the daty is on!y ls. or 11 per cent. Wo make our calculations upon the price which forengn gram will sell for on the Ene: lish market, because it is the price wheth it sells for in that market that determmes the amount of duty, and not what it may be worth in the "For West Stases." All that doreign grain sells for in the Brash market is generally rectarned to the country from whech it is shipped, less the amount of duty, and part charges, as the ships and agents employed are gencrally ioreign. The same arti. cle stated the duty on Indan. corn to be 200 per cent.-oats 300 per cent.-birley, rye, and buck. wheat 200 per cent. On the contrary, not one of these grains is suiject to a duty eaccedmg about 70 per cent. at the highest, and this duy falls gradually as in wheat, tw about 2 per cent. According to the returns lately submated to P'arliament, the duty prid on forcogn gram tmported into England for the last tweng-five years, dat not on an average amount to over cyghter cens. It is to actual results we are tolouk m theso mat. ters, and what amount of duty has been patd on grain, when the English Corn Law was much more strengent than at jresent. We would not allude to this subject, only that we know statements of the nature of those we refer to, are cat. culated to create bad feelings between nations and individuals. The object of the statement in The Alleny Callicutor, we suppose to have been, to recommend a still higiner tarifl in the United States than they have at present. We would remind our neightours of the United States of a few facts. The whote amomi of the declared value of British manufactures caporied to the United States in 1840, was only five u:it. lions and a gluarier pounds sterling; white the cotron imported from the latter colatry into Br tain the same year was near $500,000.000$ lus., which taking the average to be about 5 d . perlb., would anount to over ten mithun pounds sterling. With the exception of tobacco, we arelce to believe, that for the lass 25 yeas, the averaye duty paid unon all the preduce of the United States inported mio Brtazn, did not amsunt to 10 per cent. upon the whole value; and we would ask whether the duty paid in the United States on Pritish manufacturcs was as low as 10 per cent. during the same pericd? We ask this guestion, because The Albuny Callitator says that they only ask, "that others would do by us as we are doing by them." The same paper again observes:-1" Wo have pushed our free trade system to the rerge of absurdity, if not of ruin; we have found that tho freo trade system of the old world is like tho handle of a jug-gill
nun ne side." Sn far no the firmers of Canada are interrsted, thry mny will say to their ucighhours of the Unitcd States, that tho frec trade system existing between them at present, is" like the handle of a jug-all on one sude," and that side happens not to be thoir own, or any ad. vantage derived from it.

We numit that we are strenuous advocates for protective duties ajainst the ngricularal produce of the United States, but wo shath at oll times endeavour to advocate the principle on the plein ments of the case, supported by facts, not by ex. aygerated statements, that are only calculated to lead into error and crente bad feelings. The citizens of the United States are a wise prople, and according to the opinion of The Albuny Cultivator, the organ of the agricultural class in that country, the free trade system is an absurd and ruinous system. We should, ther fore, learn widom from them, and put an end to a system which they have found to be absurd and ruinous. Inderd, until now, wo ware not aware that the perple of the lated States had an opportunty of fairly testing the morits of free trade, because "e thought their tarifl was a very high one, on almust cicry article of furegn production. Wo with to be further enlightencd on thas subject, ns to the articles in which free trade was admuted by the tarffi of the United States for the last thirty years. When our immediate neighbours comphain of the ruinous effects, which they allege that free trade has produced with them, no won. der the firmers of Camada should complain of the efferts of free trade, considering that live stock, fre th meat, corn, and four have been admated, duy frer, from the United States for many years past, brought in here constantly by those adeuts. eal foretgners who complain of the effect of free trade upon the:r ox a intcrests.

The annual prodnce of Britain from her agri. culture, manulactures, \&c., amounts to f514, 000,000 ., cqual to about $2,500,000,000$ dullars of our curreney, which will give sear twenty pounds sterling, or about onc hundred dollars for cach inhabitant, man, woman, and chind ot the British Isles. Of this vast amount anmally crea. cat, only $£ 148,000,000$. are manufactures, of Which only one-thind is exported, so that the manufacures for the export sales hardly produce a twelfth part of the amual income derived from the industry of the nation, and of thes export trade about unc-thrd is to Britsh possessions in all parts of the world. The Brash Isles, therefore, have the sources of therr weath witinn thenselves and therr colomes, and do not sell anmatly to furetgners more than a fiftecnth part of their annual preduction. The amual produce of the Uated States, from her agriculhure, manufictures, \&c., is said to be $1,262,000,060$ dollars, giving about seventy.five dollars for cach of her inhubitants young and old of $17,000,000$, her present population. The reportedamount of an. mual exports from the United Stateg in 1837 was about $120,050,000$ dollirs, of whith considerably over half was to the Brush Empirc. We have later returns of her exports, but we cannot hy our hands upon them at thes moment.

The experiments of Barruel upon the different odours cmitted from blood on the addition of sulphuric acid, provo that peculiar oubetancos are
contained in the bluod of different indivduals: the Hlood of a man of tarr complexion and that of a man of dark complexion trere found to yich different viours; the blood of ammaly aloo differ. ed in this respect very perceptubly from that of man.

According to Leibig, rust $s$ most freģuently detected on plants growing on suils which contain hog.ore, or turf iron.ore. According to Spren. gel, rust contains phosphate of iron, to which this chemist ascribes the origin of the diseaze. Our own experience confirms this opinion. Wo know that in suils where these ores abuund, grain crops are more liabic to rust, than in solls where they are not fuund in abundance. It o very possible that other causes moy operate in the production of sitnilar diseases, and we beleve they do. It will be the farmer's interest to re. medy defects in the sull, or find some means to chech the enuses wheh produce diseasc. One means woald be to endenvour to ascertain what crops will be least affected by disease in each sort of soil, and to culavate that kind of crops upon cach. We believe that summer fallowing soll, and thereby exposing it to the influence of the atmosphere, and applying lime io it , would effectually prevent rust in the succecding crop, m ordinary seasons. We recommend this plan above all others. Lime decomposes the poison. ous salts which may be in the soil, that are unfa. vourable to vegetation. In British America scarcely any lime is ever used in orriculture.Sumner fallowing is not often practiced. 1f, therefose, pernicious sals are in the soil ori. gually, they arc allowed to remain in it, for thero is no means adopted by the farmer to decompose them, or remedy the defects in the soil whero these sals are present. We never will admit that the sol and climate of Canada are not favourable for agriculture, until we have seen the Eng. lish sysiem of agriculture introduced and foiluw. ed up in every particular branch. When this has been done, and faled in producing good crops, we shall acknowledge that we had formed too favourable an opinion of the country.
Drilling and hocing grain crops, particularly whear, is one improvement that would pay well, we have no doubt. Heeing might be done for a dollar the acre at the most, and perhaps in tho whole expense of cultivation, no part would bo better applied, or produce more benefit to crop and se!!. We have been always of opinion that hocing the land at the particular ume it would require it, namely, nbous the muddle of June, would have a great tendency to destroy the wheat fly; as we suppose they are at that tume concented about the roots of the wheat, among the grass find weeds. We know these improvements, to cause gencral bencfit, or to give any cffectual check to the wheat fy, must be gencrally introduecd; because, otherwise were one farmer to take all the necessary means of cultivating his crop in the very best manner-drilling - hoeing -cleaning-doing all that could be done to ensure a good crop, and destroy the fly whinh his own fields, lus next neaghbour, who would not like any such trouble, nught destroy all the cffec:s of his labour, by havmg a slovenly managed crup of wheat or barley that nursed and protected the tly, and that could not be prevented from coming to the well managed crop of wheat alongside.IIence it is, that any plan to be cffectual in check. ing the ravages of the wheat fly must be gener. al, or it will produce no good to the most carcful farmare that ho shoold oxpand hir labouy and capi.
tal in culusating properly, as he will bo subject to have his wheat crop destroyed by the slovenly sultivation of las neighbour.

Much has been said and published in recom. mendation of example farms, and of the great ienefit it would be to agricultural improvement to have them established in erery country. A well conducted farm in evorydeparment, would doubtess be useful as an example to any fatmer who would condescend to be instructed. In the latter end of the month of Junc, we had thepieasure to vistt the farm of Charles Penner, Eisqr., of Lachine, and wo derived very great sattsfac. toon, as we frequently had done before, from our visit. Farming operatoons in cvery department is conducted in the yery best manner. The horses, catte, sheep, and farmang implements are the best of their kind; in fuct, there $1 s$ scarce. ly any thing to be fauted. Mr. Penner cultitates about sixty acres of hops, and it is generally admitted that they are the must judichuasly cultunted and managed, and produces the best article for the brewei ithatis rased in North Amenea. This large hop plantition gises employment to a great number of persons dumar tho spring and summer. We have calculated the probable number of hop-poles employed by Mr. Penner, and found they amount to from $1 \overline{5} 0,000$ to 200,000. Mr. Penner has imported a mill for fromding bones for manure, of which le makes use of a considerable quantity. Ie has also im. ported a most excellent turnip-sowing machine, which deposits the bone or other finc manure in the drills with the seed. We admured particularly a pair of aron drall hatrows, for harrowing no. tatoes or other dilled crops. The harrows are made to fit the rodgelets exactly, so that in harrowin ${ }_{2}$ the potatoes before they come un, every part of the ridgelet is harrowed, and the furrows are not filled up as by bush-harrowing. We recommend to any farmer who has an opportunty to sec these implemense, as wh are sure that Mr. Penner wahll allow them to be seen by any one who wished it. Mr. Penner makes use of the Cultivator in his hop plantation and $m$ has fallows, and it is an implement that every farmer should be in possession of. It is impossible for any farmer to visit Mr. Pemmer's establishment whout deriving both proftit and satisfaction from it. We would further obscrve that Mr. D'enner hasplant ed seyeral thorn hedges, both of the native and English white-thorn, and that they are in a most thriving condition. Were thorn hedges general. ly substituted for tho wretched looking rail fences that disfigure our landscape, $1 t$ would be one of the greatest improvementa that could be effected in the country, and there ducs not exist a doubt that they might be substituted. IIr. Penner is in the habit of buming clay, talien from the banks of drains, \&e., for manure, and finds it to antswer well. This example migh: be advautageously folluwed in burning ciay tor munare.

## HOPS.

The crpense of forming new hop plantations is very considerable. In some districts in Eingland, where the land is properly prepared, and all the work executed in tho best manner, they cstimate the cost of forming new plantations, at from seventy to one hundred pounds per acre.This estimate, we consider, much too higit certainly, but cannot speak from personal experience. The annual expense of cultivation per acre, including every item up to the period that the hope are sont to market, but not incluling
duty, whin is $\mathbf{L 2}$. per cwt., is cstinuated at 125. per acre. The averago prodico per acre in England from 1818 to 1812 , was about to 73 cwt. Some farmers, however, cstumate the aver. age produce at only 6 ewt. per aere. 'Ihe average proce of hops in England darng the period referred to, was no: much over one shathing the pound weight, or 115 s . per cwt., including the duty of 40 s . per ewt. The rent of land is not included in the expenses of cultivation, \&c. Of course we uny suppose with such alarge enpend ture on cultivation, manure, \&e., \&c., the hops are managed on the best possible system, inevery part of the progress of their cultivation. The destruction of vermin whichinfest the plat no small item of the expense. It is no: 11 , ic way that hops are culivated in many parts of Norih America, that English hop jlantations are inanaged. If the expenditure is large the work is proportionately wall exceuted in Eing' ad.Hops have to be bighly monured, and ant firme may estimate what it will crist preacre manure land woll. The expense of ralination, S.e., we are satisfied will nut amount, in this c minry. to what it is said it am mints to in Euglant, but we know the expense wall be very cunsiderable here, if the work is exccuted as it should be.

We have been frequently told thatit was inju. rious to the succeching year's crop of hay, t" suffer the after.grass or latter-moth to remain on the land the fall previous unconsumed, vither b! the depasturing of catule or other means. We were, howevcr, of a dific reat opmion, amd thought that a rich covering of latirrmoh, remaining on the land in the fall and the commencement of winter, would be nearly as beneficial to the sur. cceding year's crop of hay, is a light top-dreca. ing of manure wrold be. We have frequents proved by exprrience the correciness of our ojpinion. Last fall in particular, we had some of our meadow covered with a heavy crop of latier. moth, shoumit the catle were allowed to pasture in it all the fall. This year, where there was the most grass lett last fall, we have the heaviest crop of hay we recollect to have seen in the country. We make this statement to show that it is not aiways those that are longest in the country, that are cajable of gaving the lest in. struction in agricultural management. We do not object to the depasturing of catle and sheep on the latter-moth, on the contrary we recom. mead the practice, provided the soil is suficient. ly dry and firm to sustain the weight of the cattle walking tipon it, without being cut up by theis fect; but we wish to show that the latier-moth, remaimme unconrunced upon meadows at the commencement of winter, will not injure the succecding year's crop of hay, hut on the contrary, will greatly merease the produce.

Though the warcs of habut is luw in most sceizons of the country this year, and the suiply of labour abundent, yet farmers have no cne ua:agement to cinjloy labour in consequence of the low price of prodace. There is abundance of work to be executed on every farm in the l'ro. vince. We have upon our own farm manty unprovements that we see highly necesary to be made: and that we are ashamed to have umbone, but nevertheless we must forcgo the satisfactoon of doing them. There is no adsantage mansing crops, if there is no market or demand. Every thing is deranged and out of place whle our markets aro opon to furcign compctition. If wo had an abundant crop of hay, a pars migh
be tanaf.atured mito butchers' meat, if this mba! when made could be suld. In the eamo waye large products of oats, burles, peas, \&c., thot camot be exported, might be fed to catile, slicen, and swine ; but no, our good fryenda tho nono agticultural classes would nothave a so. Chean produce from a foreign country is the thing for rhent, nus mater chought it should be the cause of rum to the whole agricultural pojulation, amb check all improvement in the country:

We tale this opportunuty to acknowledge our . Whtyation to Wilham Shaw, Esqr., of London, Lditor of The Mark Lane Express, the Lamers? Magame, and unc of the most efficicnt members of the Rojal Enghsh Agricultural Soceety. This gentleman has fur a long tume sent ue the Mark I.anc Faprese, wheh has becn of great use to ue in uur hambio cmdeavuurs to promute tho im: provement of Canadan agriculture. Ita hus 'dsu kunlly ufficed us The Farmers' Magazano, which, trout what we hive seen of it, we belteve lu be the must usefid agriciltural periudical that is published in luiain or any other cunntry. Wa feel cncouraged when offered aid trom such a ficnd to agriculture, as Mr. Shaw is hown to be. It is frum lingland we wish to receive en. couragement and instruction, and we know perfectly well that her gencrous people would afford us both, withom jealonsy or fear of rivalry ; but as kind parents to their aftspring, setaled in a dis--ant poltion of the sanie great Empire. The well mformed porion of the Enghsh people are aware, that it wall not projudice herr interests that Cun: ada shuuld yeld a large and valuathe annuel pro. dace, and that it would be ther interest to purchase the produce from them should they requiro it, in preference to buying a similar produce from freigncrs. All that we can spare will not bo - Wificient to purchase from our English friends the manufuctures we require. Every shilling hery wotid pay to us for ag icultur.:I produce would go back to them in one form or anothef: We teli our English friends that British America tans a most excellent sonl and climate, and would, f caphal and labour was ajplled to its judicious cultivation, yicld abuadantly in corn, cattle, and dairy produce. If, however the produce of a foreugn state is allowed to fill up our mar'icts and demand, we cannot have any inducement our: - hes, wor can we ofier encouragement to others it) cxpend labour and capi alin producing what would not be likely to refund the expendituro.

We bug to offir cur most greatiul acknow: ledgareats to our respectable corrospondent l. L. Simanunds, Esqr., of Lundon, Fullow ofthe Statis: acal Sucicty of Lemdon, and member of the Royal Cugheh Asrucultural Soculy, for the valuablo pipers he has bent us, and we shall take every opportunty of communicating the contents of these papers to unt Subseribers. We regret that we cannot consentently givo the Drawngs of varivus implements sent us by Mr. Smmonds, but we expect that in a short time we shall be able to to more m this way. lits hig! ly gratify. ing to find that some of our fellow subjects in England ate mierested ta the prospicriay of our agri. cui.. 1 . e in British America. Mt. Simmonds has lieen umammonsly elected an horaurary member of the Montreal Destrict dgricultural Society.

Let no man be two proud to word. Let no man be ashamed of a batio rist or a senbetant colvtexswer. Lez him be ashamed only of ig. norance and sloth. Iet no man bo oshamed of poverty. Lot lum only be ashamod of 1d.paobe and dishoncety.

AGRICULIURAL REIORT FOR CANADA EAS'I.
From the date of our last report to the end of June, it continued cold and wet for the scason. From the first of July, however, the weuther has been extremely favourable, and vegetation has made great progress. With the exception of barley and peas, the grain crops are backward. Wheat has been gonernlly lato sown, in order that it might havo a better clance to escape the fly. We sowed spring wheat on the 23 rd of May, and on the 1Gth Instant, the car was near. ly all shot out, and the fly appeared very numer. ous, and actively employed in depositing their eggs in the ear. To what extent they may injure the crop, it is impossible to conjecture at present, but wo fear that a large proportion of it will be deatroyed. Our full wheat was not in car befire the first week of July, though sown the Gih of September last. The wheat fy appeared abont the 27 th of June in our fall wheat, but we expect It will not be injured to any great extent, as the cars are very largo and strong, and the grain is covered with thick, rougl glumes, which we believe the fly was not generally able to pierce with It ovipositor, in order to deposit its egrgs. We have examined several ears, and though we found the barve of the fly in many grains, yet we hope the injury is not extensive. When we sowed thes wheat last fall, we expected it would be in car early in June, (we had, on one occasiun, apring sown wheat, in ear the 12 h of Junc), and thus escape the wheat fly, as we never have seen them before the 25th of Junc. This year, how. ever, was unfavourable to fall wheat, as it got injured in consequence of an insufficient cuvermg of snow in winter, and the epring was so culd that its growth was greatly checked, and it was not in ear so carly by a fortnight or three weeks, as it might have been in ordinary seasons From our oxperiment this year, we recommend strongly, sowing fall wheat carly, on well dram. ed and well prepared rich soil, either in drills or ploughed lightly in. By sowing in this way, on rich soil, we would expect, in ordinary snasons, the wheat would be so forward in spring, that it would be out of all danger before tire fly would appear, and this wo beliere to be the most certan means of produring wheat at present in Enstern Canada. There is toogreat a risk in sowng late in spring. We know that our late spring wheat is, at this moment, extremely liaile to destroyed by rust or mildew, and if it be in the slightest de. gree affected with this disease, while in a soft Inxuriant state of its grow th, the crop will scarce. ly be worth cuting. It may, however, escape if the weather is dry and favourable. Allother late sown spring wheat is liable to the same ca. mality, and particularly so, where the crop is sich and luxuriant.

Batley, gencrally, hns a very promising ajpeareace of a good crop. Oats is backward from late sowing: and we have never before scon the crop so full of weeds, particularly wild mustard. In. deed, we have seen fiolds so yellow with this weed, that it is impossible to know what sort of other crop is growing with it. Thes procreds from constant croppng with grain, without cither summer fallow, or allowing the land to repose under grass. Wo believe, that in no other coun. try are weeds allowed to prevail to such an excrit at in Canada. It appears as if farmers,
when they cult:vate nud sow a fich, aro indifer. ent whether it produces useful phants or weeds. They eut and gather whatever happens to grow in it, and cultivate and sow in the same way the succecting year, with exactly the same prospect if gnulhering as much useless weeds as valuable gruin, from the ir land aud labour. It is really discredualle to farmers to have the commery so over.run with wecds; and it is full timo that some eflictent means should be adopted to check ther growth. On land suitablo tor pens, we have seen some excellent crops, but where the land is heavy and moist, the crop will not be good. Peas should not be sown on land that is not perfectly dry and suitable fur them. Indian. enrn, generally is a poor crop. On sume naturally dry, and wam suils, it may prute an aver. age crop, provided the remainder of the season is favourathe; but hitherto this spring lins been very umfavourahle for Indian-curn. Tlus plant, abovo all others we culivate, requircs a dry and warm season to producs it in perfection, even on the most suitable soils. 1 large guantay of buck-whent is sown, but we camol yet report what the crop is likely to be, as it has only made its appearance over ground. Potasoes have been planted to a great extent, but we have ob. served considerable failures on land insufficiently drained, and from dry rot in the sced. This sprini, has been very unfavulathle for the cult. vation of potatoes on chay suils. Such sulls, wero not in a rood state this scason, for the ploughings areessary fur potatoes. The consequence is, that the carth put up to the potatue plants in a damp state, becomes subsequently so dry and hard, that it is impussible fur the crup to be good. At all tines of the cultivation of pota. toes, the soil requires to be diy and loose, and in must seasons like this, it is almost impossible to culivate potators advantageously on heavy clay soils. We do not, therefore, expect that there will be a largo average produce from this crop this year.

The hay crop has greatly improved since the first of July. On gond rich meadows, the crop will be excellent; but on old meadows that were not very fertile or sufficiently drained, the crop is yet very short and light. The mowing of hay is enmeneneed this week in the neighbourhood of Montreal, and we hope the weather may be fa. vourable for the hasy harvest. The shyhtest rain falling upon hay hat is once cut down, is extremcly injurious to it, unless it be put up in well made cocks. We would recommend all far. mers, whodesire to have good hay, rather to al. low ther men to be delc, than cut down hay in wet weather. When hay is cut down in the wet, one hour's hot sma will destroy the colour of 1 , and very much deteriorate the quahey and lessen the valuc. The farmer who cuts down his hay in wet weather is sure to lose more by the injury the hay sustams, than he can possibly goin by the saving of time. Puro timothy is easy cured, and the less it is exposed to dew, or sun, more than is necessary to dry it, the better it will be. It is a bad plan to nllow hay to remain in small cochs longer than is required to save it. Clover or soft natural hay, may require some tune to season in cocks; but the hay, of whatever sort, that remains long in cocks, will be more or less injurcd on the outside and at the bottom of the cocks: and disis injured part mixed with the good part, detcriorates the ruality of the wholc. Wo
therefure, frum our uwn experienco, recommend that hay sliuuld not, if possible, be cexposed to rain or dew, from the moment it is cut down; that it bhould not be exposed to the sun, more than is ncocssary ta dry it ; that all the sap should be preserved in it as much as possible; and tha: it should be put up as soon as it can be dried and cured, in barns or well made stacks; pusing about half a gallon of salt to oach load of fify bundles of timothy, and from that quantuy to ono gallon to a loud of clover. We incrcase a hutlo the quantity of salt applicd, if the hay has suffered injury in curing, or to hay of coarse qualty. We have found the dew partacularly munronsto new mown hay, that has been fur any time pre. viously expused to the sun. It will change the colvur uf it as mush as rain would do. T'o gres, int thas, all hay cut in the furenoon, or up to threo or four c'olock of a hot day, should be put up in small cocks in the crenng. If hay loses cuiour or sweet smell, it ta a eure token that it has not been well cured. The colour may sometimes be injured lyy slight fermentatior. ; but if the hay so discoloured retams its sweet emell, its quality is not anjured. It is only when fermentation pro. ceeds so far as to cause the hay to have a somer and musty smell, that it is sure to be injured.For the use of our own stock, we would wish our hay to ternent slightly, prusuded it was not trum wet it had recwived in the process of curng. Pure timelhy, we cuncone to be the best sort of hing that is known when we:l cured. On neh lands, that are occasionally top.dressed however, it is impossible to grow pure umothy, some clover will be sure to be mised wathit. Frovided thero is not too large a proportion of elover, the hay ts not of less value for having some clover in it. In Eingland, clover selty for a higher price than any other hay brought to market. Where puro umothy grows, the crop is generally thin, and the whole produce light. ha heary crop of timo. Hy and a littlo clover mixed with it, will pay tho farmer best; though the price may be sumething less in the market. For our own consumpuon upne the farm, we would always wish to have our hay mixed in reasonable proportions of tuno. thy and clover. A heavy crop of clover is difficult to cure and preserve the colour, unless tho weather is very fine. It requires the greatest attention and that the cocks shouid be carcfully made ; for if not, in case of heavy ram, it will bo sure to pass through them to the botom, and if once thoroughly wet, after it has been parily dried, it never recovers its colour, or is of so much value as if it had been carcfully managed. It is not for the instruction of competent farmers that we ofier these renarks, but for the consideration of strangers coming to the country, and others who may tako an micrest in reading our comnumications.

The pastures are gencrally good this year, and tim produce of the dairy abundant and cheap.Catic and sheen should faten well this year, as the weather is neither too wet nor too hot, to allow them to feed and thrive. The price of butchers' meat is low, and we do not see any reason that it should not continue so all this year.Some of the orchards in the neighbourlood of Montreal, have been much damaged this year by catterpillars, that have completely stripped them of their leaves and blossoms. Frut, however, is of so title value here, that to lessen the quanuty will not be a material loss. Labour is to be had
employ labuarers. Frum tho present depresed etate of agnculture and the ecarcity of muncy, Farmers cannot employ mure hauds than ate actally necessary to attend to tho crops and har. rest them. Under present circumstances, it is out of the question to think of employing labour. ors, in executing improvements however neces. sary and likely to pay. It is distrossing to be obliged to refuse cmployment to the many poor emigrants who are constantly scekmg it, and who we believe to be much in want of the menns to carn subsistance. It would, we humbly con. reive, be extrenely desirable that public works should be put in operation this year, in order to give these poor emigrants, who have beon mdtrred, by the must flattering representatums to come to the cuantry, some means to carn sub) sistance. If they were able to pruvide for them. selves for the first year, they would be able to do better for the future, nfier thiny hecome acquaint. ed with the country. In public works they cannot bo at a losq because they are generally acguninted wilh that sort of datour. We did sup. pose that in Western Canada, labourers to any extent, might obtam employment; but when we have advesed them to go there, they have replied to us, that there was no encouragement for them there. If employment ean bo obtamed in West ern Canada, metructions should be given to poor enigrauts where turnoced, and if means were requied by them to take them ap the countr!, we conccive that a part of the puble funds cuuth not be more usefully applied, than in furmshang the means to enable these peopie to proceed to where they can obtain employment. It is dis. heartening to them, and injuriuns to the public welfare, that ablebodied men should lie idle nad wandering about Qucliee and Montreal, if it were possible to give them useful employment.lhese people, though poor now, may become in a very short time, consumers of British gonds nam mayers of revenuc. Indecd, they would be so now, if they only got employment. Forty thonsamd emugrams have already come to Canadn thes yenr, and what prospect do they meet with? A large proprortion of then are ide and wanderang thout the country seekng work; and how. ever disposed farmers might be to give them work, the means are wanturg to employ them at any other work but what is unavoldible. We fiave lenghened out thas report more than we in. tended, but wo fett merested in the sulyect, and we hope our readers will feel the same interest in what we have submated for their consideration.

We would observe in conclusion, that as the price of oats in our market is very low, 1s. 3J. to 1 s .4 d . the minat, we would suggest the pro. pricts of convertung part of $t$ into oatuncal for the English market. The price of oatmeal in the Liverpool market, by the latest advices, was from 28 s . to 30 s . the 210 lbs . This price would pay well, and we think it will not he less for some months. The value of putatocs has been greally incrensed in the Muntreal market thas month, in consequence of the great number of poor strangers, and the sumply beeng tathershort. They sell at jresent for 2s. 63. to 3s. the bushel. Hay is very low, Irom 20s. to 25?, the hundred bundles of $1,600 \mathrm{lbs}$. The latter price is scldom obtained for the very best old hay. S:raw, from 12s. 6d. to 17s. 6d. the hundred bandles of 1,200 lles. Canada wheat, G0lbs. 7s.; barley, 2s. 6:1. to 2 s .8 d. ; peas, 3s. to 3 s .4 d ; butter from Gd. to. 8 d . per 1 lb .
The loss of wheat to the farmer is most severcly felt. It has been the causo of deranging the whole system of agriculture. A large pro.,
portion of the arable land ui every farm, might have been appropriated to tho gruming of whent, but since the failure of that crop, all the land is ensinloyed in producing crops that can only be consumed in Canada. Hence, the market must be glutted with this description of produce; and if the lands in tillage could he properly cullivat. ed, this produce might be more that doubled.It is therefore, highly esonntial that cevery experiment should be tred in Eastern Canadn, to pro. duce wheat as herotofore.

Cote St. Faul, 21st. July, 18.12.
MR. HOWITT'S PREMISES AND STOCK.
In an another column will be seen a correct portrait and pedigree of Mr. Juhn Iluwitt's heifer Aneluc. In the month of June last, while on a tour through the Western part of the country, we availed ourselies on that occasion, of calling on that gentleman te cramine his choice herd of pure blood short-horn Durham cattle, and his superior well bred flock of South Down sheep. Mr. Howitt's is one of the largest farms in Westcrn Canada. His doman extends over upwards of 1,400 acres of excellent land, nearly oue half of which is under cultuation; and sows 200 acres of fallowed land wheat anaually. His barn is the best wationt exception that ever came under our notice; it is 120 feet in length, and 70 teet in widh, with a lean-to 30 feet wide extending the whole length of the building, whach makes it 100 feet modth. 'Ihere is a stone wall 9 fect higll under the whole of the main buildangs, which is fitted up in commodious stables of every description, and cellars for roots. The lean-to is used for the purposes of sheds for horned cattle, enclosed at each end, and supported by the wall on one side, and a rack the whole length of the building on the other, excepting passages at intervals for the cattle to pass and repass mito the yard. The second story is lad with a ten meh plank floor closely jounted, whuch gues the whole, the appearance of ummense thrashing floors. These tloors are used in the summer season for granary purposes, and was covered with some hundreds of pounds worth of wheat, at the period above mentioned. 'The whole of the exterior of this admirable barn is well painted, which gives it an imposing appearance.

We have scen much excellent imported stoch from Great Bratain, but none, in our opinion, of a better selectuon than Mr. Howitt's. II:s ineffer Anelia camot be matched for beauty and symetry in shape in this Province. She is also, as her weight indicates, of manmuth suze, when her age ss taken into consideration; and when we saw her, was in the highest condtion, although she had nothing the whole winter but wheat straw. Ile has a number of full bred bulls and cows, wheh not only does much credit to the spirited indwidual who bred them, but arc an incalculable acqu sition to the surrounding country.
South Down Sheep were always particular favourites of ours; but they were ren. dered more so, when we saw them in their pure state. We deem the South Downs
woll adapted to this country from the haris nature of their constitution, and the quality of the wool. It is at all times difficult to give a correct written description of any par. ticular grade of stock, hence the necessity of illustrating stock by drawings. As wo conceive that the introduction of a good breed of shecp of considerable consequence to our common country, we will endeavour to give a correct drawing of one of Mr. Howitt's South Downs in our next, and in the meantime give some of their pecular characteristics:-The head small and hornless; the face speckled or gray; the eyes full and light, but not prominent; the neck of a mediun length; the breast wide, deep, and projectugg forward between the fourlege, mdicatung a good constitution and disposition to thrive; the shoulders on a fevel with the back, but not wide above; the ribe coming out horizontally from the spine, and extending far backwards; the hipe wide; the space between them and the łast rib very narrow; and the ribs presenting a circular form tike a barrel: the back and belly straught; the legs of a medium length, and the hone fino, and the legs a speckled giay or dark colour : the belly well covered with woul, and the wool extenaing town before and behand the knee: the whole fleece fine, short, close, and slightly curlech and quite free from coarse hairs.

## UNDERDRAINING.

In England, the mrocess of underdraining is varied according to circumstances; but the plans most highly recommended and most generally practised, are made with draining-tiles of which there are a great variety of serts: but as the makine and burning of tules would be attended with immense cost in this country, where manual labour bears such a disproportion to the prices of the products raised from land; and as the great object of farming to profit, is to get every thing done in the cheapest and best possible manner, we would advise the adoption of such plans to carry out the improvements in husbandry, which we may introduce from time to time to our Sulhscribera, as will be in strict conformity with that principte, and adapted to the peculiar circum. stances of the ?'rovince.

We have seen the following.plan, pratisen, and will be found to be durable from 12 to 1.) years; and cheap, ard simple in its conar raction. If the land jntended to be drain. cd, be of a stiff retentive subsoil, it may be effectually drained, by sinking an open dran the desired depth, then make a tench in the centre about 6 inches wide and the same in widths coter the same over with slabs, then a layer of brush, and lastly fill it up with the carth thrown out. We attach more importance to this too much neglected mode of reclaimng sour and unproductive land than many, or else it would be more practused. On sandy souls it-may be dispensed with, but on heavy clay solls, it is absolutely necessary to drann the land to insure a crop of wheat. We earncsily invite our Subscribers to make experiments, if they have not already done so, on this or any other subject that would have a tendency to elevate the character of husbandry, and wo wish them to forward the operandin and-results for publication in the columns of thas sults for public
Culfivator.

## HPOTERY.

SPRING.
by mrs. cowaro tiomas.
(Comed from The Mark Iathe Express).
When unto (ind your matin pray'rs are simh, The sun shines rloudlessly athere your head; The birds are warbleng-the flow're's houm: And no dear ont is slumbering in the momb. So recontly, 'I'me's had no puwer to dry The teur that ialls trom Surrow's woc.fraught cye.
With limb clastic, and whh heart serene,
You step, clate, alung the meadous arcen
You must be happs-Nature's whth yon, then! Toil, care, and gatu, are with the tann-pent nata Their fev'sish ears driuk not the lillimg somed Of gurgling brook-iliry cannot luok around On fair Creation's works; all they behuld Is artifictal-to be bought and soliProduced by labour so intense-severeThat they enveigh against existence here. Pantung to speed beyond those radient skins, Whose lyght on carlh is Slav'ry's sacrifice; Gladuess unapeakable is m the fiehta, Each timid fluw'r delicious pertune yelds; Like medicated balm an angel brmgs From bow'rs of Paradise, on ats fund winys; While ev'ry breath of air that fans the face, With senovated licalth the frame duth brace; Filling the heart whth that deep sense of jow, Whase holy purenes nothing can destrus Biddug Man own, amaz'd, the wonderous Mand lhat cloth'd in luveliness a sumstamid land, t'eopling with jocund burds each vermal grove And proveng Farth still worthy of His luve! The sonl whitgreatul admiration filld, Fecls ev'ry fiorco anscordatut passuon still'd; Loses, at last, its taint of earhly lear'n, And owns the purity alone of Heaven!

## Fron the Farmer's Gazette.

Farmer, happy is thy lot;
Peace and plenty crown the spat
Which in wisdom thon hast chose ; Solid confort e"erflous
From thy guet pleasam home,
E'en the fields o'er whelh you roam,
With soft accens seem to sily,
Thou art happy every day.
Far from city's noisy strife,
Thine's a calm and ranguilife; In thy garden, flowrets thrive; From thy viucs, that will derve
Fare luxuriant, rich and vast;
From thy trecs, a sweet repist;
Fanthful fichds will gladiy bring I'reasures great, a boundless sprang.

In the cauntry's baliny air,
Healh's hrght usage thon mos'th wear Knowledge deop thua mas'st obram; Richest blessings houmay'st gain; Indenendence gilds thy path,
Thou tue frectora ever hath;
'lhine's a statum, enved bere
Than a prinec's thr mer of puwer.
A FARMER'S DAUGIIER.

MHE GOLDES Maitiv of Sin mattiew hate.
A Sunday well spent,
l3nngs a week of content,
And healdis fur tle timio of to. morrow : But a Sabbath profaned,
Whatsoc'er may be gamed,
Is a certain forcrumner of sorrow.

Eitsess $n$ f Tmagos.-Jercmy Taylor says that the world is a board with perg-lwles, some square, and some round, and that certain men, fitted for one stato of hings and not for another, are syuare pegs which get into round holos. Nothing cau adjust them to theirstatione, or fix them with any firmacss or unrightness. Change their position, and cot oach right-but tho chango is impossible.

## OUR BOYHOOD.

Tlie memney of boyhond is ever agrecable for the close approach it makes at times ts) a state of perfect contentedness. We can remember when certan gratificalions that we had hoped for were conceded, we were pertectly happy in the enjoyment of then, at least as luing as they contimated to be huvelises. In manhood, to put us moto poseession of any thung which we desired, no matter how lung we had been wishnin for It, was to make us dissatisfied mmediately. Its pussesson was the surnal for dacontentcdncss; new destres, and new hopes, new longhars and crashige arose, from wheh we were tree while the sitate of expectation of the olyect with wheh we had just been gratified exmed. The consummation of boyish hope led for some short epace into a heasen of satisfaction, a litule term which we could say, "Now we want nothing more in the world." 'Whe interval, short as it might be, was one of pe.fect felecsty. If we had for days been expectung a hulnday, and it had arrised, we spent it with a companion or two in a complete frution of hope. For at least balf that day we well recollect that no vond was left mour bosom, no craving desire made us restless, until the tonl and fatugue of play and exercise produced satiety, and gave a destre of repose. We were always, howeser, keenly alme to the miseries of borhood, for most acute miseries boyhood may have, and nuthing is more unfounded and unfeeling than the notion that boys are insensible, or sutier but litte from the mortification that may be mincted upon them The painful eliect there is no doubt is more cranescent than in after-fife, but it cuts as deep at the moment. Of all youthful miser. ies, the tyramny of the pedagogue of old times was the most unsufierable; how often has it broken the manly spirit of youth, cruslied its noble pride, and smothered its desire of emulation. A humdred bojs, all differing in character aml temperament, were formerly, like so many German soldiers, taurht by the cane. 'Ihey must acquire the same task, in the same manner, and in the same stated period of time. The lively and studious, the dull and acute, were treated in a way perfectly similar; and the ecourre-the infamons and degrading punshment of the scourge-was the inevitable lot of hun whth whom it was a physical inposshility to learn the allotied portion, equally with the indolent or wilful neglecter of his duties. It is curious, that most of the shmang characters in our hiterature in whom genus has been most eminently displayed, Hu: zarely discovered to possess reinarkabir theats at school, if many of them were not thought irretricvable blockineads. Somethiner not very well anthenticated is told of 1) yrd'n's startlmg hes pedagorue uith an exceilent cuuplet; but for the most part the slaves in after-life, the plodding man of business, the commentarist, or future college thtor, were the master's fatourites. The truth is, that line and rule were made for those who camot work without; and the favourites of nature, the mighty mithigences among men, were not to be treated hike machines. Their lofty and proud spirits muthnied and rebelled areainst the plourh-drivinge system of cocrcion. 'Ihey could not but revolt secretly, and imbibe a distate for what was attempted to be forced uponthem instead of being introduced by the and of reason and suavity. This system has been very much changed of late years, except in three or four.great grammar schools. We are happy we never had any thang to do whth faccings and floggugs. We can well remember the terrific impression they made on our mind, as our fricids were aflicted by
them. They gave us mich a repugnance to the system, that we determined, with a reEolution and coolness rarely found in one of our young years, that m case parental authority bure down the antipathy we felt aganst such a torture, we would run away tu sla. We even went so far as io calen. late on the surest means of doing this with success, and we had some peculiar local fa: cultses in our favour. We had anticipated, which boys selilom do, the obstacles that lay in our was, athd young as we were, wo verily believe, had we made the attempt, wo should have succeeded. It was not our des. timy, however, to be driven to the trial; an excelleat mother, by her interference, saved us the necessity of an act wheh myght have been folluwed by a long and bitter repent. ance.

Man must not be broken in like a hurse, if we wish him to preserve a truly high and noble sprit. Reason and shame are his legitimate controllers. 4 soldier once flogged may do as well for an Austrian army, where men must be automatons, as before; but in munds formed for great actions a blow destroys every valuable qually. For our part, we should even now feel anndignant blush of shame in the presence of his master or his ushers who had flogged us every week from the age of eight to eighteen. Wo should abhor them. How they are so complacently regarded by their scholars in afterlife we camnot tell : the latter surely cannot have feelings like ours-but perhaps we aro over-6ensitive.

There is a great deal of honour in unsophisticated boylood. The disgrace cast on tale-bearing ought never to be removed.Nothng is so ill-judged as to encourage es. pionarge, and to reward spies and trators to thers companions. The integrity and strasght. forwardness of a govermment proves its strength and ensures its durability. Tho boy who, rather than betray a companion, endures a flogging and keeps a secret inviolate, is a young hero, and has the elements of much grood in him, in spite of Mr. Locke; such a spirit ought to be adnured rather than censured. To encourage a tale-bearer is to sanction the committal of a new crime to obtain oftentines the punishment of one of less marnitude. That master must be stupid and idle, who cannot obtain a knowledre of all he may require in such cases from a separate and close cross-exammation of ju= vemle accomplices.

But we have wandered from boyhood to education. From describing a few sensations peculiar to incipient man in a etate of nature, we have wandered into that statc which is to fit him for artificial life. We crave pardon of the reader for the digression; but we believe that it is, after all, nore to the advantage of socicty for men to hive honest, hold, and high ideas of indeperdence, and pure feelings of honour, than to be mere construers of ancient tongucs employed on words only, not dreammgr about making them the medium for conducting the learner to virtuous actions.-Eng. pagu

Differfice between I'hysical and Devtal Labour.- Whilst we are in hand Whit these four parts of the Institute, we often having occaston to go into the city, and from thence into the country, did, in some sort, envy the state of the honest ploughman and other mechanics. For one when he was at his work, would merrily sug, and the ploughman whistle some selfpleasing tune, and yet their work both proceeded and succeeded: but we that takes upon to write, doth captivate all the facule ties and powers both of mind and body, and must be only atcentive to that which be
collecteth, without any expression of joy or cheerfulness while hic is at his work.-Sir Lidioarl Coke.

Entomil Lamotrs.-Whe romuctor of an able amd imflucutial paper ( $\boldsymbol{T}$ he S , prethorr) gives the following estimate of the labours of an editor:-"Many penple estimate the ability of a newpaper, and the industry and talents of its editor, by the variety and quantity of editorial mater it contains. Nothing can be more fallacious. It is comparatively an easy task to pour out daily columus of words-words, upnu any and all subjects.lis ideas may flow in one "waslyy audecerlastiug flood'r and his command of languare may enabie hin to string them together like
bunches of onions; and yet his paper way bunches of onions; and yet his paper may be a meagre and poor concern. Hut what is his labour, the toil of such a man, who displays his • leader-matter' ever so largely, to that imposed upon a judicious, well-informed editor, who exercises lis vocation with an hourly consciousness of its responeibilities and its duties, and devotes himself to the condurt of his paper with the same care and assiduity that a sensible lawyer bestows upon a suit, or a humane plyysician upon a patient-without regard to show or display? Indeed, the mere writing part of editing a paper is but a small portion of the work. The industry even is not shown there. The care, the taste, the time cmploged in selecting, is far more amportantthe tact of a good editor is shown more by his selection than any thing else ; and that, we all know, is half the battle. But, as we have sadd, an editor ought to be cstimated, and his labours understood and apprectated by the general condact of his paper-nts tone-1ts temper-tis manner-its unform consistent course-its primciples-its amm Its manliness-its courtesy-itsdignityits propriety. To preserve all these, as they should be preserved, is enough to occupy fully the tume and attention of any man. If to this be added the general supervision of the newspaper establishmuent, which most editors have to encounter, the wonder is how they can find either time or "head room' to do it all."

A Fact for the Cheap-Bread Agita-rons.--It was stated by M. Iedru-Rollun, in his address to the Court of P'eers on belaif of M. Dupnty, that there are eight millions of persons im France at the present une in a slate of misery. France is one of the countries to whach the agitators pomt, where the luxury of "Cheap Bread" is to be had -if money can be procured to purchase.

Agriculturi anong the Chinese.-In classumg the people, the Chinese place the Laterati in the foremost rank, as learning is with them the stepping-stone to honour; but immednately after the learnec, the husbandman takes precedence of all others, because engaged in rasimg the necessaries of life. Agricultural employments are thus honoured in Chuma from wise and poltuc notuves, the country requirng cultivation to the utmost extent, to provide tor ts populaton.

Agricultural Machnemx.-Tho Ilighland and Agricultural Suciety of Scothand, has again announced a prenium for the first successful application of stean to the cultivatuon of the soll. No premium was awaried last year, and the conmittec amounce their incention of withdrawing the nutice after the present year. The particulars with reforenco to the premium may, per-
haps, be interesting to sone of our readers, and wo, therefore, subjoin them: $-\Lambda$ premium of five humired sovercigns, or such other sum as the directors may see proper in the circumstances, will be atwarded for the first surcessful applicatum of steam-puner to the Culti ation of the soil. Dy the culthation of the soil are to be umderstuont the operat ons of plouglung and harrowing, or prepariur the soll in an equally eflicient mauner, and the other purpuses for which anumal power is now hsed ; and the sucress of the mention will be judged of sa relation to its applecabluy to the ahone purpmes in the orduary situations of farms ta the country, and to the saving out tune, Lalour, and outhay, which th may poseess over anmal power, as now generally employed in the culluston of the son.

The royal englimingricultural.
society. society.

## mokiara crover.

William Taylor, Esq., F. L. S. of 34 t , Re-gent-street, presented to the society a bundie of Bolhara clover, (recenty cut) with a coloured engraving of the plant, and the following account of its cultivaton :-
"A small packet of the seed of the clover in question, which appears to be a varkety of inclulutus arborea, was given me ly Mr. Loudon in the sprimg of 1833. It seretated freely, and grew most lusuriantly, up to the latter part of September, when it was four feet high; it was then mown, and the stallis were manufactured into strong and durable hemp. Iorses eat the plant with great avidty in its young state; and to judge from its extraco dimary growth the first year, it mav he fed off three tmes, namely, the midlle of June, July, and August. It stood the winter of 1839-10 well, proving itself th be a hardy plant On the 2sih of $\Lambda_{\text {prill }}$, 1840, a small portion of to was cut, whelh was then 15 inches high; on the 2 the of May again, herght 16 meches; and subsequenty on the 254h of June, heyftht 17 m ches; in August 15 meles, and in Septem. ber 12 incles ; the first llowers appeared in June, and by the mudlle of July it was corered with its highly fragrant white blossom. A large portion had been left for seed, and towards the end of Septomber the crop was harvested, each plant produciag from 10 to 20,000 seede, the stalks beng tron 12 to $1: 3$ feet in height. From the experiments $\mathbf{I}$ have made with Bothara clover, I should calculate that an acre would produce from 20 to 30 tons of green herbage. The first year it may be cut in June, July, and August, each cutting averaging thiree to fi e tons of green herbage. The second year, in April, May, June, July, August, and September, each month producing three to five tons of herbage. If intenided to be saved for seed, it must not be catt more than three times, in April, May, and Jute. The roots form a sort of manure; and from two to threc tons of hemp. Great advantage must be derived from its cultivation, as it forms a valuable green food for all sorts of catile at an early period of the season; and if cut when 15 or 20 incless hegh, an abundant crop would be prodacel, gedelay hay superior in quality and quantity to the common herbage plants. t'o judge from what has mitherto been seen of the Buthara cluwer, it a;plears to be a raluable bienual phant, well adduped for gron th in thas comintry; biur is it ulhbely that it may be lutud to thrive on nuch soils as, by a rriculluristi, are terned clut er-sick; whereby ts value noula be greatly enhanced. Should it, as may reasonably be expected, in ordnary seasons, on
good soils, be ready for cutting in the early
part of April: farmers who have no grass, and but a flort supply of hay, carrote, or turnips, would derive cesential bencfit from it. The 13ok hara clover being a tall, deeprouted plant, with a strung stem well clothed "wha fulanes amblus sull, it heeps the ground It a mure perfect pute than most other phans of the arthici.al grase hime, and, consequently, will he mure vuthental in amelioratugy dind prep parmes suls for the reception of wheat cruys. It is a plant capable of bemy cultuated with strecess and adrantage un ahu"ut a! heavy and dry descriptions of land if in a tulerable state of fertility ; and it may lie sorin from March till June. The propurtion of seed that is necessary must Bary accurduy to the quality of the land and the state of pitparatum to wheth thas iveen brought ; wn the richer descriptions of soil that are free from weeds, 8 to 10 lbs. may be sufficient fur an acre; whereas 14 to 15 ths. will not be too much for those that are of stiff quality, or which possess a less degree of fertulity. As already indicated, tho crop may either he mown fur hay, ent every muthih as green herbage for different sorts of live stock, or scrve for the grazing of catthe and sheep. The separation of the seed from the capsule does nut require so much havur and eapense as the common clovers. It is thrashed in the same manner as trefoil, and sent to the mill to free the seed from the lask. The Bohhara clover is likely to answer well, and may, in a great measure, render this comntry mulependent of foreign clover-sed. On arcount of to clegant appearance, and the framrance of its blossom. it likense deserves a place in every flowergrarien."

Mr. G.thes stated to the council, that the plant now buown as the "Bakhara clover" was dentual with the Trifntium Mefilotus ntha, or (as it had been foinerly called) the Mrluutus afficenalts allur, a phat which had been partailly colturated m thes country for the last twenty-five years, and the seed regularly iulporied b: Messrs. Thomas Gibbs aud $C n$, who had been in the habit of recomuending the growth of a small breadth of thas clover, fur the purpose of mixing it with inay that mught have been damaged by "ct weather, the fragrance of the lear impartung to the whole the smell cif new hay; also for cutt ng and placing in layers with out straw, for the parpose of cuttung into chaff, tacks being formed of alternate layers of the straw and clover. Mr. Gibuss stated that this clover grew to a glanatic height, but should be cut at any early stage, as otherwise it would be ligneous or woody in stalk, the soll most favourable to its cultivation being a deep rich mould.

## cretar menhot.

My. Taylor having presented to the socicty a coloured drawner of the Melibotus Crelicum, trans.unted the following account of the plant:-
" $\Lambda$ few secis were sent me from the $I_{s-}$ land of Crete, under the name of the Melilutus Creticum, as a plant that would be found highly useful for feeding cattle. The seed was sown the 20hh of Ma. - h, produced fluwers in June, and ly the suidde of July it was concred win this harlhy fragrant yellow bluosulus: ripanded seed in dugust ; height of the plant 20 ninches. The MR illous Creticum secins to be a valuable plant, and well calculated fur growing ia this country. It semms to pursies all the properties sufficient to recomaneth at to the notice of agriculturiste, particuluty a as its stalhs are very succulent, and its iolage very abundant; and when sown un autumu, it may be cut and cleared from the ground in the bepinning of June fullowing, and the land fallowed for wheat or sprung corn. It forms a valuable
green fool for cathlo at an early neriod of the season, and, if cat when in tull tlower, It yichlds a most idmundant erop. It ecems to be relishod ly all sorts of catte, particularly milch cowe, in consequence of ifs ewret herhaceots flisour, whether ent in a green state for food, or made into hay ; and a plant well adapted for making imo hay, on account of its foliare, when dried, beng foumd to impart to tho whole crop an arreeable sweet scent, similar to that of the sweet-scented vernal grass, or inh oxamhum orloratum. from its beautiful gellow epilies of flowers, it will form an elegrant ornamental plant in every garden."

## NEW DRAINAGE BILL.

$\dot{\Lambda}$ very important bill cmitled "An act io promote the Dramaye of Lands in Ireland mud improvencm of Naygation and water jower in comection whi such Dramage," has been before the House of Commons, and has been lately reprinted with several alterationé. It occupies seventy-six pages, and contains ono hundred and sexiy-two clanses.

Secs. 1 to 7 Desides the Commissioners of l'ublic Works, two additional Comms. sivners to le appointed to carry the Act moto execution, who will recewo memorals from any persuns interested in lands lable to be thooded or capable of beng dratined. The memorial to state the bature and extent of the laud, aml praying that it may be drained. Persons iuterested in rivers near such lands may memorial for the improvement oi their natigation. (Gramd furies may memorial through thrir Sicretary, after makng a presentment, for the same purpose. When a memorial is received, the Commissioners may require either the individnal or (irand Jury to make a deposit for defraying the expenses of surveys, schedules, maps, \&c.

Secs. 8 to 18. . Commissioners, atier memorial and deposit, may appoint an Enginecr to inspect the land or river, and mquire mito its preschit state-the capaenty of the land for improvement by dramage, and ths increase in value when miprosed-the inprovable capacity of rivers-w hether existing interests nould be miured by the neces. sary works, and whether fur that purpiose nt may be necessary to "purchase, remove. jinjure, or alter any weir, dan, mull, fartory, or other buldhug, or property." If, on the report, the Commasswners thath the cost of works incommensurable wuth the benefits, they are to decide accordurity; and a they approve of them, they miall cause harther and more minute surveys to be mate, copres of which shall be upen for the puthe $m$ spection. Gramd Juries then to appont a cummittec of seven, who may atteme the mecting of the Cuambsioners, and objeet to any parts of the report. : ©ombssioners to hear endence on oath, and to give the niecturg the fullest mfurmation concerning the wurks.

Secs. 19 to 29. Yresentment Sesserme and Grand Jury may approve of works, and undertake to pay the cost of their exectition; and, they should retuse, may have the works done by securmig the payment of the costs. No dramage wortis, however, to be commenced unless propictors of two-therds of the land concar.
Secs. 29 to 40. Where the weir, dam, or bobstruction of a mill or factory caused dunage Ly, omerthowhy, tir Commissimers hay mike alteratoons and ennstruct works tipreVent, the floods, and discharge the surplas
water, and also declare the Yevel at which water, and also declare the level at which the workng water-power shall be maintained, by erecting a guage for hiat purgnsn-
Owners may object to the level, and Com-
miswhers to dectule on all such ohjections. Where warks connected with milly or factories, hy thoodiag, prevent the permanent improwement of the neighbouring lands, the Commissinuers may alter the machinery, and the levels of the head and fall of the water, but not so as to lessen the power; but where the calculated improvements on the laud ase three times greater than the value of the mill or factory, the Commission. ers may boy them ul, and if tho owners should not agree to the purchase, they may taice them at such a voluation as a jury may allow. llefore such a step is resorted to, the Commissioners shall make a decharation, describing the lame to be improvedits actual value, and the estimated increase by menn: of the proposed works-the names of the asientiurs proprietors, tho cumount of injury canem by the obstructions, and the restrictions under which they may be interfered with. Then follow the procecdings befnre the Superior Courts or the Assistant Barrister.

Secs. 40 to 58. After publication of final notice, $\operatorname{lin}_{\text {n }}$ Comminsimers may proce ${ }^{\text {and }}$ to exectue the works, by ordering reservoirs and embankments to he made, and providing for their future repair-by making such roads as they may deem necessary for that purpose, and diverting the sulplus waters of rwers adioning the reservors. Where embankments may be requisite to afford a constant suphly of water to private works, Commussioners may execute them with the consene of mill proprietors, equal in the value of their working power to two-thirds of the value of the working prome of the mitls aftected. Commissioners to raise troncy for the purpose on such mills or factories.Fishmy weirs may be altered or removed, makinge compensation to the nwners. Where the mill power is improved with the owner's consent, Commissioners may rate hum towards the expenses of the works, and any improvenent made shall be set off against losis by temperary stuppage. Ohucrs or occupiere not to be exunerated from mahng such repairs as they are liable to before the Act.
siecs. 51 to f6. The first section describes the general nature of the works to be erected under the Aet, which are equally extensive and heneticial. Cutamissioners, after three day' notice, in 'y enter lands and hig for materials - fill up hules and pits not found useful, and fence of such as may be. They may make drains through lands not proprised to he drained, garng compensatom for the damare. Thes may cufurce the cleansing of drans; and any party whose lands in y be injured from this neglect may, after service of nothc, proceed to scour
them, and rucover a propurtion of the exthem, and recover a propurtion of the ex-
peases by cupll bill. If cuts or other works in made to injure ruatls or bridges, other 1 Jre convenient roads or bruges to be mindr; and where catsitug bridres are insubingent to carry off the water, Commissioncrs tatay re-cunstruct them. In the alteration of dams or weare, provistons to be made for the migratum of tish. When lands -rall be cut thrubifh, separating the parts of a farm so as: to leave oa cach stde of the works less than a statute acre, or less than fifteen yards wide, the Commissioners, if required by ounce, mast purchase the enture.

The bull goes on to provide that all lands brapfited hy the drainage, shall be subject to the repayment of the money exponded on the draimage with the interest upon the same until repatd. All lands held under the same title shall be subject to the amount expended in the drainage of any part of them.

We give insertion to the heads of this bill, in order that our I.egislaturo may take it into cunsideration and give us a bill somo. thing like it. We tell our Iegislaturé plainly that such a bill wiruld be much moro heneficial to the general improvement and interesta of the country, than most of thoso they have passed during their lant Seasion.

Pronstafess.-Promptness in mechanies is of the higliest importance. the farmer who sows or reaps out of season, will not lose mote by doing things out of the proper time, than will the mechanic in a long runi by neglecting to perform work and fulfil ordors as promised.

The farmer sees plainly by the operations of nature around hinn; the inuportance of promptness and dispatch. If he is late in sowing, he fiads that the scason of genial rains : ind sunshine are passing away without preparationt; on his part, to profit by them ; and the green fielits of his neightour are ant evilence of his loss; and spurs him on to action:

But the mechanic has less evtdences of his loss by neglect. The customer that is often disappomted, may bear the eval silentjy, but resolves to learn by caperience and lork for one more prompt for the future.

Disa, ${ }^{\text {pmintments in mechanical work are }}$ srious cuils; and a great many excellent workmen, who have but little to do, are among the first in their profession in shill; and could to a large burintss, were they as much noted for their promptness as for theit skll and mgenuty.-Far. Journul.

Practical Inints on Agmicultural To: pics. - The following hints is condensed from Loudon's "Encyclopudia of Agricul: ture:-
"In salting or curing butter the use of wooden vessels is preferable, and they should be made from timher which has been previously boiled fout hours; to free it from pyroligneous acid, -or they should be made of the lime tree, winch wond is without this acu. 'I'o terd a horse when hard ridden', or if weakly and tender, it is often useful, to gve bread, or bread with ale or gruel- It is of the utmost consequence, if the journey be of several days continuance, that the batings are sufficiently long to allow the horse to digest lis food. When any young man intends embracing agriculture as a profession, whether as ploughman, bailiff, steward, land-valuer, or rent-paying farmer, he ought to undergo a course of minual labour for one year or more, in order to aequire the mechanism of all agricultural pperations.When the pupil is not ilestined for any peculiar county, then lie should be sent to a farmer's in a district of mixed agriculture. When the pupil is insended to be eettled in any particular connty, he ought to be sent to a rounty as uearly as possible of similar soil and chmate, whero the best practices are in use."

Oil of Sithe, or a mixture commonly sold under that name, is nothing but some spirits of turpentine, mineral tar, and seme essentual onl, added in various proportions.The iolloning is a good reccipe for its pre-paration:-'lake spirts of turpentine, one pint ; mineral tar, $\frac{1}{2}$ pint; oil of amber, 3 ounces; onl of rosemary, 1 ounce -Albany

# Mr. HOWITT'S DURIIAM IIEIFER AMELIA. 



To the Editor of I'lic British Amuricen Cultivator.

## Drar Sir,

The above is a Portrait of my Improved Short Horn IIeifer Amelia. $\Lambda$ light roan colour, with spots as represented in the accompanied drawing. This heifer was calved on the 19th of September, l933, and was bred by myself. Her jedigree is as follows:-
"She was sired by Reformer, who was imperted from England in 1e:33, by Rowland Wingfield, Esar., and selected trom the herd of the Rev. II. Berry, Acton Rec.ory, Eromyard. Worcesterslure. Refin mer was got by Warwech, dam Yellow Neck, by 12. Collings' Pilot. Warwick was got by Whare ${ }^{1}$, dam Pease Blassom, by Mr. Whitaker's I'riumph. Grand dam Ilose, by Mr. Barns* Archur. Great grand dam by Allison's Grey Bull. Creat, g. grand dam by a son of Favourite. Triumph was got by Prince of Waterloo, out of IIr. Whitaker's Moss Rase, by Western Comit. Rass Rose was judyed to be the best cow in England."

> AMELIA'S JAM.

Was imported from Elrgland in 1833.She was got by Nheer, (sec Coates' Ierd Book) dam Vanda, by Yuunir Mark. Grand dam Trinket, by Mcteor. Great g. dam Prinress, by Western Comit. Great, g. g. dam Selina, by Fatouritc. Great, g. g. g. dam by Countess, hy Cupid. Great, r. g. g.g. dam Lady, by grand son of Polinbroke:Great, g.g. g. g. g.g. dam Pheinir. Phenix was got by a great, great grand son of the celebrated bull Coniu, who sold for 1,000 guineas.

This pedigree will be found correct by reference to Coates' Herd Book, both on the side of the sire and the dam. She ss the same animal which I mentioned una former communication, published in Thic Cultivator, that had nothing but straw all last winter, and never was put into a bulding. She will weigh 64 stones, 14 lbs. to the stone; and her fattening propensity is
such, that if she had first rate pasture, it pany, when he stood up with the bag upon would be quite nut of my power to say what his shoulder, proved the view the farmers weight she could make.

JOHN HOV' TI'
Guclph, July 20th, 1842.

The Thanes Townel.-The whole of the tunuel, nearly 1,200 feet in lemrth, ts naw completed, and will be opened in a very short time as a public thoroughfare for fout passengers; the workmen are busily colgared in erectung the sharcase un the Wapphing ste, whelh is all that remains to cunnplete thes extraorduary work. 'Ihe machinery, stcaun engmes, and surplus materials are dulvertised to he vold by auction, including the powerful apparatus called "Ithe Sheld," by means of wheh the work was accomphshed. It is said to cuntain 150 tons of iron, and to have cost $£ 10,040 .-M . L$. Express.

Fetf of Strengti.-A large mumber of the respectable farmers in the nemblourhood of Market Drayton, assembled at the Phemus Inm, on Wednesday the 11h Inst., to watness the decision of a "ager, when James llearimore, the thard son of Mr. Francis Beardmore, of the Dary-house, near Drayton, (a youth only seventeen jears of age), was backed to lit' up from the fluor, and get tpon lus stoulder, a bag of wheat, (of three bushels, weyghng $2: 0$ lbs., bag included), with his right hand alone, unaided by his left hand, with which he was not to touch the bag. This very extraordmary fete of strength he very cleverly performed in the Marliet-room of the Phenix Inn, befure the assembled conepany, hy hus stuoping down, layug the bag on hus lap with has rught haud, then turnugg it round has hup upun his back, afterwards hitclung it up his back and bringing it to his right shoulder, kept his left hand and arm down by hus right side quite c!ear away from th-a nust undaralleled performance. The free and genertuok of the performance, which very few could do with both hands, in tho middle of the room.-Ib.

Ausimatia.-A. Accounts of February 18t. from Syduey, ia noticing a sale in the interiw, of 1,000 head of cattle, at two pounds per head, and 5,000 sheep at five shijlings cach bevides two stations, with the use of the muplements, improvements, \&ic., given iil, take occasion to observe that the purchaser of thas lot, as well as other buyers "ho had entered into siinilar speculations; would ultunately, and probably within a very short t me, realize a handsome fortunc', woul being in grod request in the home market, and stock so unprecidently low, as to make it impussible that it should not soon get dearer. Gentlemen of capital, arriving from the mother country, had a rare oppor: tunity of conmencing well upon this accomet, and in the hunted district, which has been long setted, stations could be par: chased, wath almost cyery rural comfort' equal to those at our Eurlish farms. We must not forget to state also, however, that the accuonts from some quarters notice the emstence of severe drought again, in con: sequence of which the flocks and herds werd sufternis to a most seroous extent, this being in the Mauland district, and further, that the bushramgers were extremely annoying to the settlers up the country.-1b.

Instantaneous Ginger Beer. - Fili a buttle with pure cold water, then have à cork ready so fit it, also a string or wire to t.e it doun with, and a mallet to drive thio cork, so that no tinde may be lost ; now put mito the buttle sugar to your taste, (syrup is better), and a teaspoonful of good powderel gnger, shake all well, then add the sixth part of an vunce of supercarbonate of soda; cork rapidly, and tie down-shake the botthe well-cut the string-the cork will fly -und drint ginger beer:-lo.

On qur Advantages wheit have: bees
beriven, and abre mikity to achate to
 or of the. Phistapirs of Shertamy

R. Maborv, B (2., М. 1).

In order that senl may to adrantageously subjected to contioted cropping, the tarmer must keep up its essential qualties by ploughing, harrowing, and any otwr operations necessary to pulverize it. The value of the impalpable matter th soil has bren already alluded to, and we shal accorduas! confine ourselves in this phace to the entimeration of the practical adrantages arbere from a knowledge of the facts there brounht forward.
The effect of ploughng, harrowng, \&c., Eec, is twofold: 1st. It howes the soll, and renders it more jnrous: zurl. It pulveriaes it; both of these are of the greatest value: while the first prepares the soil for freer attmission of ar amd mosture, the latter readers these capaibe of acturs ehemically upon the differemt ingredents camamed beneath its surface. The necessity of miverming is evident, becanse, as far as phams are romenrned, it is of hitle consequence whether their ruts come nin contace with an argluthnated mass oi ;owder, or a stone ; buth are equally impenctrable, and henee botharion equally useless ; so that a soil hadly puiverized is in many respeces smmar to a wre stony soil, wilh one eacepton, str, that the masses of matter whela are capable of berus reduced to ponder, being more porou: than stone, are capable of abisorbus a greater Yliantity of the liguits contamed an somi, and thereby imporersingy the land; it is 1 iore. fore of the uthost consequence for the fertility of the suil, that it should rom tume in time be pulterized to the greatest exsent of which it is capable, wholat the cxpemit ure of too great a quastity of habur. all mast be aware that Jetifo Tull was sodeeple impressed with the inportance of thos patrerizing of the soil, that he trequend atarmed that, if properly pertormed, ti might: altegether supersede the mecosity of maming. Oif course this i.dea is estracigran, bat sill. as it resulted from pracical caperience, on teads to show in a fociach haht :len areat value of the operation. In jrocess of time, science may cuable us to emphay sone more efficient metion for tacreas are the quantity of impalpable mater in soll, in a shorter period than it can be etiected lay the gradaal disintegration of the slumes by ibe miluenee of the weather, and thos remider the lowess sands capable ef proftable calusat:on.

Sonl intended for contimued cultivation must have tis stuply of organir momior, and part also of tas mameral meredinete, retter:ed by returmage to si, fram time in time, the shape of manure, what heve here reme ed from it on the form of rrine. Wer hat already observel tiat phyeinti...ists ore tar from bemg at one an thinir i!lone roperdiag

 of a grod supply; many, bowner, suppry thas the ahac of manares ron i fempety ia

 Uns as it mat, wa bate si, it infiry ar


may be smaned by stedvare canafaly there lation subsisture between the crin-mitio ol of a soul, and that of the manure hest suifon for it, because at will invariably be fomel
contains the best supply of whatever is detic.ent in quantaly in the sonl for which it is indomed, and that much grond materal is ahatly lost or rendered unprothable by the absence of any attennt to accommodato the manare to the soil. When the rescarc!. $n ;$ of the chemist shall have emabled him to irecide with aecuracy as to the pecular food binst adipted for cach crup, has acoommo. dation will be capable of being carried to a much greater extemt that it posiblby can be at mresent.
But the condition, as well as the compoition of the manure must be attended to, branse suil must have to actinty presers. ed by addine to it, at certain perions, sub. stance in a state of fermentation. Numerous facts tend to prove that the success of many crips depends upun the existence of fembentinar mater in the sosh, and that bowever rich it moy he in other respects, these crops can only be adrantagenusly cultirated after a frest addtion of monure : this is partica'arly the case wath the turuip. Withut dun the richest son will hear but an indifferent crop; whe whh manure, rery poor soil, if it be no: 100 wet, will at all imes give a grod return. Seipter hoe mot as yet been able to accomet for thes salisfatorily, although many of her votaries are willing to aclinouledge ats truth, aud it is obvious that an acquamance with the fict must be of the greatest valuc in assicting the farmer in his arrangements, for he with of course apply dung when he intends torpice a crop refuring the exastence of fremonating mater, and ilus ensure ts vince se, white he dies no tinury to the folbou iou cr fo, whese grow th is, to a certan ettent, leas depeadent on the condation of the soil.

It frequmbly hapons that the farmer is
 ditin', an acroum of eerta:a deferts mader Whiply it hereme, ad whel the recorded exprria oren of hi- ancerturs has miturmed hme ant ha nomermme or conateracted by certan arcercens which he may carry mo etiect with wate ar lowe fachis, accordug to carcumenomn . The chat at these are dramin:, hining, and pariar and harange and
 piot not what is rc.lly catected ly cach, so tint fromers mey he preventc. 1 from ursapplying thron from ignoramec of ther pecthar mode oi cliun.
(To le Continuce?).

## From The Colonial Furmer.

## PEAT, AND MICII MOUID.

What writers comound these two very diferent sulustaces ander tic name of veriable maticr, sumetiaca obscrume that a 1 ra.y lie barrea in consequence of the ve nus of noweable matior. thes hanguage is culeuhated to masicad, ame confuse the waur shadent ia arriculture. I: Biarope hirre hue been deputes concernang the ar: in if pent, and sume very whasten!
 Nfine thrye are such preat prmaties, and


 i di t Ta:. i ace zampos wers , it inet are we the greater part oat



 parportion of the peat o as origmally what is
getables, comprelending the "Ross" or hard onter bark of the trees, and the thin paper-like outer bark of the shruhs and evererren plants. This is hy far the most improishalle part of vegetables, amb in a vastty greater proportion upon the slouly-growing trees aid shruls of the barrens, than on the proiluctions of a fertile poil. Together with the "ross" of the fir", there is a considerable guanity of resin which falls from the trees with it. This is iucreased by the leaves of the various shrubs of barreal heathy around which generally hold a consiterable proportion of resin, thenether with the astringent amtisepties, tanma, and gallic acid.These last are indeed contained in the barks of nearly all trees and shurbs of the barrens in large proportinns. Their taste is not perceptible in any considnrable degree in the "Ross," but as this was origimally hark, abounding in astringent matter, there is grond reason to think it still retains it, neutralzed by oxygon, for which astringents have sucli an affinity that they will take it from motric aid, as any one may convince hanself by putting a solution of nitrate of silver into a strong decoction of black spruer bark, or dwarf laurel leaves, when the slluer will be deprasited in a metallic form. There is also a considerable quantity of charenn ${ }^{2}$. ani a porsion of the shells of sinall hug \& of various kinds (colcopterous inseris) in wed with the other ingrediente. For the lan 4 whre peat is found is rotered whth trees of the fir lind, always liable to be oserrun by tires in dry seasms; and one heavy rain, after the ground has been :moothed by a fire which has lurnt off the moss and strainer of sma!! bushes, carries thore materal ento the swamps than had entered them for sp:en years before, ami it is at stach tumes that the charcoal is floated in, torether wath the shells of innumerable bugs who had been killed by the fire that burnt ofit the moss on witheh they burrosed. When the wood of bures is destroyed they ;rothee mose, dimmutuce s!rubs, and smail juceless sediges, which aboummg in resin, tanm or woody matter, have very littie anuctage, amd for this reason decay very shomly. These substances are deprived of a mast of the soluble matter they once contatued by sterpug in water for ages. It is met strange that th:s, when drained and exposed to the ar shouh prove a barren soil; It is composed of the hatf decayed remains of vegetables natives of a barren soil, vegeandes whelis can thrme only on a poor soil. Thomake thas support the piants of a fertile sul, somethag mast be added to it which it l:as not, and it must be deprived of a part of somethang whecis it has.

The vegetables which grows on fertile soils hold a large quantity of a meilaginous mater imstead of resinous, and a considerable quantity of potash. When dead they change to a fine mould in which the natives of surf snils grow rapidly, and of thas hind of we nonte matter there is never an excess, the grmad that has most of it being the manct frrite. Fetween the fertile mould produend by the decayed leares of cablage, 1:rruipe, or tolnacro, and the fieat formed fro:n "Ross," resin, sulphur, and decaycd mese, there are many eradations; and wion :wamp soil is used to increase the manure, the bent should te chosen. That which has bexa forewh from the leaves and decayed weol irowl lardumod land should be preferred, and suct is to be foume in the swamps whrh heve a -onsiderable brook passing (t' roueh :hem, fromed from a number of rirute's which descend from a hardiood hill. The brut for inel, and least valuable for ananure, is ir the swamps near which the muly growth of wood is of the Fir or I'ine nuly growh of wood is of the rir or line
fanuly; and very small aud scrubbed. Xet
this barren peat is the best to plough in deep upon clayey gromul to serve as adrain, for it will change but little in half a century; it is also useful to mix with putresent manure in the summer to preserse it for the next season. llemg thelt imapable of fermentation it prevents the fermentativa and decompration of the mamare. liat in the suri:ar, when to fit it for ase, it is necessary to induce some fermentation it may be readily made to heat, by turning and miximg with it a portion of seaweed or of the prehle of meat or fish. Where larire quantities of peat have been mixed with the sul, it is always deposited to produce sorrel, which continues to thourish for many years; some have supposed thes to be caused by an acd in the peat, but it is mure prubable ullay to the coarseness of this knal of suil which does nut in the course of many years become fine and compact, and the sorrel has been observed to occupy groumd manured wah a maxture of wood-ashes and peat, as readily as that whech was cutered with peat aunce.

Wefds in Gimss Iand-Ox.eyc Daisy. -'Thes plant will probably abound in the ensuing summer, being lable to increase in dry seasons such as the last. It is a forthnate circumstance that the only two weeds which spread much an our mowner land, the Crowfout and the Ox-eye Dassy; will hoth make very tolerable hay. The daisy is by many accounted worthtess, because betur earher in flower than our commun grasses, it is generally mowed two late. But 1 i it is mowed when nearly all in flower, but befure eny of the seed is ripe, it will be futind cyual to the at erage guality of the hay in Halifas market for cous; but horses du net aypear to be fond of it. When it is allowed to ripen its seed it produces a great quamtity, which is genc:ally spread with the manure over all the cultiated ground. When there is a succession of dry seasons, perhaps the best way to master it, is to give a top-dressing to the grass land sufficient to make it produce at least two tons oi hay to the acre, when the daisy will be found to be mostly suffocated by the clover.-ll.

Crowfoot or Cuters Curs.-This prefers moist and rich soils. Cattle eat it willmagly early in the stason, but it becomes so very acid when in flower that they then avoid it. It loses its arrimony by drying, and makes very good hay, hut it is like the Daisy, too early for Clover and Titnothy, often turning black and decaying before mowing time. Top-dressing will not dimiaish the proportion of Crunfoot; to ge: rini of it, the land should be ploughed, a croy, of roots theen from it, and then be daid down with clean seed. The practice of using the sweepings of the barn lowr for Erass seed alimys serves to introbure weeds. Wherever Crowfoot furms the princ.pal part of the crop, it should always be moned while it is full of flowers, as it will then mate rery grod hay for cows.-Ib.

Saltheg Meat.-The method for which a patent has been lately taken out by dir. Dayne, is thus described: -The meat to be salted is phaced whinin a strong uron veesel, whech is closcel in an arr-ught manner, and the air cxhausted from it by means of an ar pump; a communication is then opened wat, a brine sessel, whence the brine nows into the receiver, unth it is about half filled; the air-pump is then agrain worked to draw off every particle of air from the meat, ise.every particle of ar from the meat, ive--
The yrine is then perniticd to fill tho re-
cencr, and a farther quantity is injected by means of a common forcing-pump, the pres sure being resulated by a sate ithe learded with abou: 100 or 150 llo: winh the
 pressure for about 15 mantes, the nimt i cared, and may be tahen unt of the rectaser - Alhentum.

Maxars.-At a late meeting of the Ashmoleau Society, Professor Danbeny exlubuted a specmen of Mr. Damell's New Patent Manure, wheh is stated by the It: ventor to consist of carbmate of ammonia, sawdets, and bituminous matter. As the materia!s from which this nen kind of fertilzecr is drawn appear to consist of murpanic matter exclusively, Dr. Daubeny pointed out its disconory as an instance, amonget many ohere, of the means which nature has phaced wahn our reach for increasiag the amount of vegetable produce proportion.tely to the increase of mankind, and so maintainiag the necessary ratio between subsistence and an increasiug population. In a purely past. sral or agricultural cobmunty, it moght be unnecessary to have recourse to any other fertilaing substances that those which the manure of animuts afiods; lat in a hirghy adranced condsion of socie? , in consequence of the harye anount of jrodace consumed by the mhathans of the great towns, a becomes necessary to sech for ne:s materals to support the loss "hath the sun of the country sastams. Thats hoiedust is procured from Sunth Auerica m such quanituer, that at is conamed, on the culculation that cach head of cattle supplies bony abatter equal to ollbs. an we:ght, fhat nut less than vie mathontwo handred theneand onera, are sharghered anamally m that cuantry ior the supply of huac-matare to lughand du:ac. Guano, or the dung of sea-birds, is hewae an empensure article of amportation for the same purpose; but as buith these suares will fail in propurtion as the several colattries becume more pewipled, it is furtatate that we may fied subitatues for them in in. orranic substances. Such is the nilrate of sodn, so mach uscd of late; such is the new masure iawented by Mr. s)aniell; and at may be cunfidenily predicted, that by the discoucry of such agents. agriculture will be emabled to keep pace wath the increase of popalaton, tithe later be not stimatated by man ise rerulationa; and that as animal hice mereases in a direct rato to the anomi of subsstence, so the nutricious effects of ambmal manare, by gomy greater e:ergy and wour to the organs of phants, "ill cause them to dran miore abundatitis from the ai:nosphere, and thereby force a prophition-
 lor. Iluckland ihonsht that an anportant prumerple, respectang simulating manures, had been bronght furward, wi., that a plat:s. under thedr actom, drat s more frecly from the atmosphere. In addition tolise mercase of human mamure with popuintion, the quantity of carhon given out ly ammals, amd lent to be absurbet liy pia:ats, as prupnoticatately inereased. Me furtier madseried to the discramation neceessaty to be caerrised m restormg artaficially latid that bias been crhamsted, and sistaticed a case fursished by l'rofessor Juimston, of Durham, of certam pastures in Clieshire, which had become exhausied of their phosphate of lime, by i.s being absorbed into the checse made wath the milli of the cattle fed there, and which were rentored by a top-dressigg of Wheh werc restore

## PATENE WOOD.CARYING.

We have been hirhly grataicel by an inepertion of the prucess and preceeds of this
 der the diret twan a ilesers. Mranhevate and (io, of IVmmatiosmet, Comat-(i,riden-
 of carsing in wod shouad hase been alloweal tufuriat its place in the ranks of architecturat abjuctis, we are delighted at any hing whinh promiees to rense a manhprised s? we of dewrathel. The tendency of the ase is to cytardioh art and to precipitate sernce. Wual-caring stood half "ay hetween the two, and seems to have Elared the fate of matay other mediaturs by being -ent to the wall. The patent in questwat if it ducs nut ofter a rebial of its full epira, it any rate presents a reproduction of its forms.

The process combines the double action of heat and preselre; and there are not wanting selentatic reasuns who the wood, subjectiol to atis fear? 11 urdeal, shond be firmer in tevture thais in its matural condition. We have implied that the forms intended to be imat:ted are fathfuly preserved; and we furthee consuder that the tune matarted by the action of fire, is extremely gratifying in the ege by its rithess and tarici:. The specitaens submited to our notice presented a very strhaing appearance, and we cond not hat ! ancy we were standiant amidet the houdicraft of past ages, rather thin aruilut the promace of a pateat of today. Ma-site raricd oak-tables, magnificent cabincto, bohd cathedral screens,
 pictare-ir maes, caraices, curbeli, lassi-rclieri, and other chlds and ends of a disman. thed catheiral-chi,e, :aet our ziew, and at prises which, in "the prerent miserably puor day," are groat recommendations.

We are :ut sainciently aupuated with the detarts of its merc..imice operation, to state wah aschacy the comparative expene oi real carnag and "! ouent carving o" bat the reduationatite coist of the later must le a sirmag mance:nent to those zir. :anci who hate at ma.ine for things of other dutice, but whe d.call the wacertanty of necceary oukiay as uch ta the sagueness and incongletences of the suiply of the desired oljects. A perion with such a taste may nut desigra itis os:3 net Gothac sanctum; 2 ad iastead uf raching his tate to reconcile chance incuagratare, may tranuailly superi thend the gre-oriatacel phatig of his harmonous stures. . In adhiral might line his caban wh scupatares of heruec deeds or Xeptunian embicms, and when his perilous colirse as ran, he may transport deen to his terrestral retrent. The charchman may decorate has sudio w. ha Compl truths on action, nor fear tw lente lelam, th tho sh.ftars of has useful career, these memorals of his creca. The man of hicerary leisure may strrunid hasascit wa clawnail remmisecn-ces-the geolug.ot $w$ ah ath anpression of tise latest fussul reanat:s; :n lach, is adaptation to human tusics is unhmed, and we await "ahi groat aterest the results of thos aggemens mivention.
ITh::t is of still greater importance in our vie: is :is prowtect :i aftaris of reviving the - Sit of Curna:e; by the necesstity wheh at present exsts for the laliours of the artistoecrentific chisel madaphatana of parts to the whole. We dankt mot that the wealtiny will prefer lhose effurts which are unique, and wall ceciasomally resut to genuine carring; but for the gencrality of Eredividuale, who are not so cudowch, the substutution of the fine and barjed forms of ancient art, for the flumsy aad tas eless effects of modern cabi-nei-making will be a boon of wheh they will speedily accept the advintage.- Ens. nop.

## a HEW SEASONABLIE HNM'S.

This is the most important momth in the gear to the agrecultu:ist. In order that he may harvest his crops with profit to himself and case to his lahourers, the mplements or tools should be ingond order and of the best quality. Much of the wheat harvest will be housed before this reaches vur Subacribers, herefore it will not be necessary to treat on the subject. Oats and pease should he cut hefore they are dead ripe, or else there will be mach loss sustaned by shattering. Save every blade of your stran, as you may require $1 t$ before the close of the coming winter. The plan of throwing out much of the best straw in autum, when at is not eaten, is too much pracuced. A better use may be made of it thus-as seon as your grain is thrashed, either carefully stack your straw, or store it in houses for the purpose. When you cut your second crop of clover, which should be done as somn as the princijal part be in fower, make it into bay, which is very seldom well cured at that season; and lay ore layer of straw, and anbther of hay, and repent the process to your whole crop; and we promise you that yon will have good hay, and the stran wial be much improved, which of itself wiil telnay you for your trouble.

Fallowing--This suhiject is of such vast importance and the field for discussion so wide, that whole volumes might be written upon it without cxhaustang or diminishing its interest. The few hints we gave in our last, we trust will noi he lost sight of by our readers, and we hope they will make similar experiments. As we have often repeated, the drilling in of wheat wol.id add mach to the product, and arhcat-groring would be a more certain business, as there wonh be less liability of the crop bemg winter-libled and injured by m:liew. If any doubt our assertion, we adviee them to lay up a few acres in rows or clrills, as represented in our last, then the result will be groved by ocular demonstration; and we promise them that the advantage will be visible to the pocke as well as to the eis.

We noticed, a few days since, two fields of wheat, sown with an amported drill, which in our opinion will average to buehels per acre. The feld in question is on the estate 'ot Messre. Thorn and J'arsons, Esiquires, Yonge Strect, Vaughan. We exammed the Brinl. It would cosi about ciaj.

If you plough in you whear, by all means harrow it once afterwarde, and properly water-fnron: Manage your had so that there will be no possibitty of the pians ‘sustaining injury by surtarcomater.

The whent-growers do unt pay suficient Bituention to the culture of clover. This phant is justly considezed the best fora for wheat. Aluch of the light sandy mandsu:ght te made the most valuable, by seeding a large proportins of is down to clover, and by turning under the green suard for wheat. In the preparation of clovery leys for wheas, Hany melhods lave been fracuced with ad-
mirable success. If the laud be not clean from nosious weeds and wild grasees, the hest plan would bo to let the clover attain as large a growth as possilhe, in the early part of the season, and then harrow it down in the direction you inteml to plough, and turn the whole under. The sced in this ease should not be allowed to ripen. Another methonl is $t 0$ allow the clover a rood start in the spring, and depasture it through the summer with sheep or horned catte, and when the tume for seeding arrives, turn under the clover, and sow and harrow in; but the phan we most admire is, to have the land in hugh cultivation previous to the clo-rer-seeds beng sowa. Cut the first crop of clover for hay, and turn under the scrond as above. Gypsum should always be used on clover; and the land may be increased in ferthey yearly, under judncious cultivation, by its amplication.
Scel Wheat-Old seed is preferable to new, if properly secured; the if used, great caution should be observed that the germinating principle lave not been injured by heating in the mow or granary. If new be used, it should be left etanding until dead ripe; and the field or patch intended for sed, should have every stalk of rye, chess, and cockle carefully pulied out while standing, and if neglected, the two latter can be separated by means of a hand sicre. A good fanning machine, by two drersinge, will make a sample fit for market, notwithstanding it may be very inpure before commenciag the operation; yet, by close examination, it will be found unfit for seed. We wish to be understeon that we denonuce the doctrines of transmutation of grains. New varicties of the same kind may be propagated by a judicious manarencn, on scientific principles; bui we positisely assert that it would be a violation of one of the first laws of mature, that twoor more kinds could be cultivated or produced from the sane kind. We conld as som believe that wheat would change into rye or iser rersu, as tiat it would turn mo chess. The latter grain, for so we venture to style it, is not so liable to winier-kill as wheat, and will remain uninjured if inundated with water, for a numier of months in the wimer season; and the wheat being billed on places thus exposed, gives the chess a chance to tiller, and thus the unskilful husbandman autributes the canse to an all-wise lrovidence.
The I'rejaration of Scal Wheat is various; but the surest cure that has been discovered to prevent smai is, to every three bushels of wheat take one pound of blue vitrol, disenten it into athout cight guarts of hot water, mix it with the whent, and s:is it weil five or six times, and dry it with newly elacked lime. The only preventio we have ever used is a solmtion of salt and waicr, made sufficimily strong to bear upa fresh hail nero. Atcer remaimug a few hours in the same, we dried wath newly slacked lume. These has invarahly provel sucress. fini whth us. it man will prepare dirty bushels in a day: Wie advise that class of farmers who never fail to bare a smutly crop
of wheat, to prepare at least a part of their seed as alove, and we warrant thom that the result will be satisfactory.

The proper tume for sowing fall trheat in Western Camada, is from the first of September to the fifteenth, and if not sown be. fore the twentieth, it would be much better to sow such land with spring wheat, as it has proved a more certain ernp on summer fatlowed land, than late fall sown. We have seen spring wheat produce 3.5 bushels per acre, thes preparel. Some farmers practice sowing their wheat in August; we cannot recomment it for the folloming reasons:If the fall be very open and fine, the plants will tiller if sown too early, which as virtu. ally destroys the crop as if winter-killedand the biemial weeds, if any are allowed to remain in the ground after the summerfallowing operation, will get the start of the wheat in the spring, and in many instances we have seen whole crops destroyed from lins cause. Some seasons it answers well; but on an averagre of scasons, the resul:s of too carly sowing would be as disastrous as sowing after the period above mentioned.

Water-furmaing should not be neglected, and should be performed as soon as the crops are sown and harrowed, and the angles siould be opened with a spade.
In conclusion; we have directed your attention to a few subjects, that we trust "ill be worthy your serious consideration and practice ; and hoge you will obtain remunerating prices for the products of your industry and toil, and that your pockets may be full of money, and live long to enjoy the blessings with which a kitid and bountfu! l'rovidence has been pleased to surzound you.

MONTHLY REPORT OF TIIE CROMS IN chaidd westr.

We perceive from our cexchange papers that the fall sown wheat, has lieen partially injured by mildelf; in every district in the Province; but not to that extent, that the imbuence from the same disease was felt in the harrest of $1 \$ 39$. We have seen gentlemen from almost every populous township in the Ilrme District, and have insariably made it a point to inquire of the state of the crops in their respective neighbourhoods, and tie reply has been, without exception, that the late sown fall whent, will not produce hald an average crop. Various causes buve been assigned by modern writers on verctable playstology for thas disease; and ahluough it is a subject on which we have bestowed mach research, botin theoresically and practically ; and have noticed its action on the phant in sarious stages of the disease, and umier a diversity of circumstances as it regards the preparition of the soll, and its uathatal location; yet, we are not satisfied as to the true canse, and will not give a decided apinion on the suhject.
At the perin's of our writing this, (the 12th of August), the wheat harvest is quite
 crops wall not lie completely housed before the 20 th of the month．S＇prug whent，ryc， pease，oats，and barley are above an aser－ age crop．I＇akng the backward cold spring into consideration，we have abundant rea． son to be thankful，as twas thouglit at oue time that the crops would not yicld sutiici－ ent for the consumption of the country； whereas on the contrary，if the harsest hold fine，thore will be a greater amount of pro． duce of every desaription for exportation，of the present year＇s rrowth，than has been exported in any single year sinco the first settlement of the colony．

We would hope tho husbandmen may re－ ceive remuncrating prices for the produce of his farm；but from the report of the crops in（ireat Britain and the United States， we would not be justufied in holding out ant－ ticipations wheh there would he a doubt of their realizing．Some of the Americath aro ficultural papers，have coolly calculated the number of surplus bushels of wheat，that the United States will have to export．The highest of these estimates that lave come under our notice，is $36,000,000$ ，of whith the States of Michigran，Illinois，and Oliso will be able to spare one half of that quanti－ ty．We have not only witnessed，but felt the influence which the present mode of trade and intercourse between thus coumtry and the United States，have on Camadian arriculture；and have come to the conclu－ sion，that unless a reciprosity of dealing be established between the two countries，and encouragement be given by the Inme Gor－ ernment to colonial industry and enterprize， that farming in the Canadas wall be a doubt－ ful，and in many cases ruinous busumes．－ It is thought a disgrace in this country for an auriculturist to encumber his real estate for the purpose of enternarg mto speculation， and tatie the country through there will no be found one farm in thirty morigarged． Our American neighbours of＂the plough＂ manage their businese in a different style ： almost crery farmer makes it a puint to mortgage his real estate to enter mio some scheme or speculation，and hence four－fifths of the capital invested in agriculiure is fic－ titious．

Supposing our ncighbours transacted their business on as sure a footing as ourseltes， still they have natural advantages in the new states of the Linion，which act as jow－ erful agents in depressiner agricultural in－ terests in the Cantidas under existang lans －we mean the low prices which lands ：are לrought moto market，and the small outlay required to bring the same mo cultivatum． When all these circumstances are talien into consideration，we conceive the caase will be will understood which enabies the Americans to sell their produce in our mar－ kets，at prices which would be ruinous to us．It may be said hy sonec，why arrue the question farther？by your own admission Canada must be a poor country for farming purposes．Cau it be said uhat England is a poor country for agriculture，hecause bread stuffs and produce of every description can pe raised in the South of Prance and on the borders of the Baltic，at prices that would be ruinous to the English farmer un－ less protected by laws？Lhe same answer that will apply to the one case will be found equally applicable to the outict．

It is obvious that the only thing the Can－ adian farmer can do to effect tue desired change，is to petition our I＇rovincial Ieris－ lature，and that body to the Inpernal L＇alia－ inent．There are the milling micrests，the carrying erade interests，and a varicty of other conflicting interests to be sustained by members of the Legislature；so that it
awale to their own interests，aml call mect－ ings in thear respective townships，previous in the ofening of larlinment，so that the Ilouse u：ay be fully aware of the nature of the protection they so much desire．
Home districit
agricultural society
USDER the patronage of
His Excellency the mizht Hon． Sir Charles Bagot，de．dec．

PURSUANT TO PUBLIC NOTICE， the Ollicers of this Society met at the Conrt IJouse，in the City of＇Toronto，on the 10th day of August， 1812, for the purpose of maknge the necessary arrangement for the Autmma lair and Fat Cattle Show．

I＇he l＇russdent Enwarn W．I＇momrson， Fsun．，Warden for the Jistrict，took the Char，whercupor：it was Resolved，－

That the Autunn Fair and liat Cattle Show，be held at une City of＇loromo，upon the piece of groumd in front of the New Gaol and Court IIouse，on WEDNIESIB．1Y， the twelfth day of Uctober next，when the madermentioned l＇remnams are to be award－ ed for the following Stocl：：－

SHEED．


13est 21．10．Second $\mathcal{L} 1$ ．Hhird 10 ．
fure Lambs－rex of two．
I3est lōs．Second 10s．Third Ēe YoU入（HORSES．
HOMSES UADER THAEE YEARS OLD． Best $\mathbb{1}$ 1．10．Sucond $\mathbb{1} 1 . \quad$＇ihird 10s．

Mases Livore ruser yeans nab．
Best £1．10．Sccond $\mathscr{E} 1 . \quad$ Third 10s．
Honse of Mune cwiber Two 子ears old． Best $£ 1.10$. Second 21 ．＇Third 10s．

YOUNG CAT「LLE．
hul．LS Undra：two ：ears ot．d．
Best 51.0 ．Sccund 1J̄s．Third 10s．

> herems uxdhi: Two yedis ol.d.

Best Cl．0．Sccond 15s．Third 10s． Sminig nethl cal．f．
Best ©1．0．Sucond $\mathbf{1 5}$ ．Third 10 ． sphing neifer calf．
Best El．0．Second los．Third 10s．
FAT CATTLE AND SHEPD．
 Hon：msti：It．
 ren of thiee fat sheni fed in the home District．
Best 11.10 ．Sccond 21 ．Thisd 15 s ．
SWINE．
Duans．
Best 51．10．Secoud S1．
THird 15）E． sows．
Best El．10．Secund S1．Third 15 s
Pcrsons intending to become competitors for I＇remiume，are informed that l＇ens have been consiructed for the purpose of contin－ ung the dificrent anmals，so as to prevent their stranging or being unnecessarily dri－ ven about；for ile temporary use of which the coinpetitors will be clarged one shilling
and elaree penco cach．

A piece of ground adjoining the Show Yard will be appropriated for the exhibition of Stuck for sale，and an Auctioneer will be in attendance to oller the same for dioposal．

As an encourayement to those enterpriz． ing farmers who have already imported Stock inw this Prosince，and as an induce． ment to others to follow their cammple，it has been resolved that if any animal conter． ed for competition be decmed，by the Judges， worthy of the first Praze，and if the owner of the same pruve to the satusfaction of the Judiges，that such specimen of Stock has besn imported from Great Jritain since tho last Autumin liair，he shall upon producing certifieates of the age and breed of the ani－ mal，be cutited to the thanks of the Society， and receive donble the amount of the l＇rem． tum whels would be otherwise awarded．

No person shall be allowed to competo for any of the above Promimas，miless he shall have been a member of this Suciety for at least four months previous to the dat of the liair，or pay the sum of fifteen slat－ liners upon enterng his Stack．

The Suriety hase entered into such ar－ ranrements in the selertion and apponimment of fudger，as to preverat any iuea of par－ tiality．

No person or persons other than the Of－ ficers of the Suciety，are lo interfern witiz the Judges when withe discharge of their duties，by conversation or otherwise．

In order to preveat any idea of partiality in awardmer the Prazes，each competitor for a l＇reminm shall be furnished by the Secre－ tary，（George I）．Wells，Eisqr．），wath a nu－ merical ticlie！，to be fastencd to each ani－ mai entered for a l＇rizc．

Ilie Stork in the Show Yard will not un－ til the l＇remiuns are awarded，be known to the Judges loy the name of the owner＇s or graziers，but solely by the ticliets and num－ hers corresponding wath the Secretary＇s list．

The Sticek to be on the eround by ten oclock in the morning，and remain until three，I＇．M．At I＇2 o＇clock noon，ihe Judres will commence their duties of insuection and decision．

The names of the succesoful candidates－tho Premume they ehall have received－and for what adjudged－will be publicly anuounced by the l＇sestdene，at swo veclock，P．MI，from tho froat sieps of the ofd Court IIonse，upon Church Siree：，and afterwards publislied．
The Fat Caste aud Shrep must be offesed for sale to the luichers，helure the amount of any lremuma for the same shall have been paid to licir owner＇s．
The Sectiary will he in attendance at the Of fiec ot Mesers．Wells se PitzGerald， 150 King Surcc，Toronto，at 10 o＇clock，on the morning of the Exinhtion，firs athe purpose of entering tho names of，and iesung tucheis to the various com－ penturs．Ai 11 ，ecle $k$ the Secretarys lests will be closed，after whech hour no further entry can be made．

## A Elozinhing MEAtch．

Instead of a Gran and Koot Eahbition，tho Secrety have ordered that a sum not exceceding fifteen poinds be approprinted for l＇rizes in 2 Ploughagg Math， 10 take pince on Thursdiay，the 13：h diny of Octoluer next ；and that the following （ientlemen，Messrs．Tortance，Geurge D．Wells， Gibb，D．Smitic，and N．Davis，be a Commiteo wobtain a fich of Green sward，and make the necessary arrangeincuts，of while deve notuce will begizen to the public．

N．B．The nuwe Committee will mect at the Ofice of Mrssps．Wells \＆E FitzGerald， 150 King Sireci，apon Wrdnesdaj；the 7tir day of Suprem－ ber，at 11 ocelock，A．Al．
Ally nerson having a suitable Grecn－sward Ficld whan fire miles of sho City，will have the goodness to give notice of the same in the Secre－ tary，Geurge D．Wells，Esqr．，betorothe 7hh day of September next．

GEORGE D．WELLS， Sccrctary，II．D．A．

From The Farmers' Encyclopedia.

## SALT.

There is, pertaps, no saline substance that exists to so groat an catem maname phants, and wheh has been us-d ar wo buthe a period and to such an extent for these growing ial inland situations, as commem galt. $\hat{A}$ substance which m : only abutads in all plams fromasy on hee sea-shure, but always cxinls in smader froqurtmon, im
 Jhons, Mr. G. Simelati obtaned from 1, 1.0 0 grains of wheat chiof frosa Bedfunthire, ashes 50 ; common satt $2!$ : trum 1,49 parts of the seed, ashes 10 ; common sath 1.6. But frome the same crop, whict: hatd been dressed with 41 bushels of comamm salt per acre, he obtained from 1,400 parts of the chafl; avies at ; comann salt 4 : and from 1,450 parts of the seed, ashes 10 ; cummon salt $\frac{1}{2}$.
Common salt is found wenerally in minate proportions in must cultauicd :ans. blaty detected in 400 gramias of a somal shetwis soil from a Tonlinider hop sarden, neaty 6 parts of common salt.
Besides being in smail propurtions a d:rect food for plants, comment satt alou secans to erform several other sersices to seneta-
 to other salls; for instaner, when aphed to the soil in small proportions, it ceratinly promotes the putrefaction of its orgamic matters.
And again, salt in common with sescral others, appears to exrite or stimulate the plant, when applied tu it in pregmertions mat too excessive; a fact first nuticed by Ducior priestley.

Another use of common and nther salts to vegetation, is the presersathon of the plant from injury by sudden trametions a the temperature of the amocplace ; saliced soils only frecze in intense frosts. Thate repeatedly winnessed ia the case of calimany verctables, such as cablayes, hrucuh, de., that while the probuce of the um-alied purtions of the gromad were half killed by the frost, the sitted portions have total!y cscaped. Many salts have atso the property of retarding the cuaporation of tie inomsture of the soil, others absorb it frum tien athosphere, or are of the class of dehanesciar salt: such are the comuon salt, chluride of calcium, chloride of magnes:a, cubic petre, or nitrate of soda, sic., whineh, in ronsequence, when they are used as fertilizess, they increase this proneriy, so saluable and so cssential to all cultuated soils. 'dhus 1 found by some experiments upon a rich soil near Maldon ial Jisen, worlh 42es. per acre, that 1000 parts dried at a temperature of $912 \circ$, absorbed in cirfteen hours, by exposure to atr saturated with moisture at a temperature of $62^{\circ}$, 2 z parts. liut 1000 parts of the same field which had bern dressed wath twelve bushels of marine salt per acte, under the same circumstazaes, grained 2 z parts; and 16:00 parts of the same sonk, whech had been deessen with siv bushels per acre, qamed 26 part:. Ple attraction of some sahne substance for the moisture of the atmosphere is very constderable. 1 found that lote parts of refuse sath manure, dried at $212^{\circ}$, absoried in three hours by exposure to air saturated with mosture at $60^{\circ}, 10$ ? parts. 1000 parts of the sediment, or pan-seratch of the saltinakers, graimed 10 parts; 1000 parts of Cheshire crushed rock salt, 10 parts; 1000 parts of gypsum, 9 parts. Chiloride of calcium is so powerfully deliguescent, that it absorbs sufficient moisture from the ar to dissolve in $\mathrm{it}_{\text {, and }}$ form a solution. Doctor Afarcet found that 238 graing jn 121 days absorbod 634 grains of water. 288 grainm
of nitrate of lime, a salt found $m$ some of the riehert allovial cinho of the lasst, abourb; m $1 / 77$ das 119 mans. Cidbonate of pot:wh, another sahme ferthase, aloo abourbs mosture. X it it is surliy of the taruters' nivien, trat chat ride of calcuma ss the very -ate wisch is protuced in such abundance by the decomposition of common sath by lame, in the way so successtally recommended, first by the ohl German chrmnet Giduler, by Mr. Hullurshend, Mr. Benneit, athl sa Charles Barell; for by the thow actiun earried on tor three momiths by these subetaces on cathother, hus salt and soda are produced by the deconapostions; and it is nut improbable that when these salts are present m the j. nes of plants, that by thas means the attractue gowers of their leases and roots for aqueous vopour may be increased. Day alludes these esmenthi, yet tooblitle underatud posers of atsori?tion posensed by tegetatles, when he says -"In very inter- hatats, and when the enil in dry; the life of phats stems to be premered by the aburlat moner ot thenr fraves; amilit ts a bentatal chanatatane in the coubsuy of mante, that anteots bignoris is mosi abandant in the atmospiere wina it is ma-t acciced for the parpueses of Infe, and that whan wher sumres of ats supHy are cut uif, this is most cuputs."

Horticelemal Pamononon. - Mrs. Caith, chtor of the Anti-sla ery Stamdard, rines him fombowity actuat of a remarkabie f e eblehin the fathity of hosiun:"A hat ound very heathy barberes benth stom at ilm midot of a piece of gromad. whert a gembeman had ajpropasuted to a fiowc: yrden. The garidener, umallag to lue such a virourous growth, and beng mamed to try an eaperiment, cat it ufi not bar above the rou, and grated a shpol winte roses mio di lt grew rapally, and became a thruing bush; and what wis very singular thugh leases and funers remam. ed in shape bite a rues, the couner changed from white to that deleate stant colour which charecterizes the burberry blossom. The arrauscment of the bush, too, changed its rharacter ; the branches, matead at shooting ont staight like a ruec, assommed the drooging, curving line of the babberry:"

Phevention of Accinents by Fine. A correspondent of the Courier recommends that after apparel, bed furniture, Sc., is washed, it be rinsed in water in which a small quantity of saltpetre has been dissolved. This, he says, haproves the appearance of the artiele, and should it come in coatact wath the fire, prevents ats barst mg mio flame, so that the firr may be exhargitished whatease.-Sclecied

The neatest way to semarate wa: from honey-conab, is to tic tie comb up an a hnen or wooblen bay ; phace at in a keitle of cold water, and hang it orer the fire. As the waier licats, the was melts and rises to the surface, winte all the imparities reman m the hag. it is well to put a few pebibles in the barg to keep it from flonting. 10 .

Common salt cight parts, saltpetre one part, well mixed together and applied to the surface of the ground connected with the trunk of the peach tree, will, it is said, destroy all worms and grube, and promote the thrift of the troom- 16 .

The following is from a correspondent of 'he Allany Cultivator:-
Kreutng Esisi-IIaving tried many wayg of preserving erggs I have found the follow. ing to be the castest, cheapest, surest, and best. 'Take your crock, kege, or barrel, according to the quantity you have, cover the botton with half an inch oi fae salt, and set $y$ ur erys close torether on the small emb; he very particular to put the small emd donom for it pilt in any other position they wiil not kerp as well, and the yolk will adhere to the sheil ; sprinkle them over with salt ea as to lill the merstices, and then put in anuther hayer of eggen and cover with sah, and so on till your vessel is filled. Cover it tight and put it where it will not frecoc, and the rerpes will keep perfectly fresh and good any desmable lengin of the. Ny famly has kept thom in this mamer three years, and tound them all as good as when latd down. It cheve we hate never had a bad eqre smee we commenced preserving then in the mamer, and found them always as gond as when lain down.
The trouble is comparatively nothing, for When we hase a duact or so more than we what to use, we put them in the cask and sirinh!e theat vicr wath salt; and when at any future time we wisia to take then out, they are accessibie and the salt is uniajured. Bat, mark! the esges should be put down before they become stale, say within a week or ten days alee they are laad.
Every man by this process may have eggs as pleny in winter as summer; amp farmers who make a buituess of eelling their cergs, any eas:!y calculate the profits of preservmig them in sumaner and selling then in wimer. liggs, where I hee, sell frequently in summer at edght cemts, and in winter as hurh as thrty-seven and a half cents per duena. In vew of these various considerathons, it must be evident that no investment. that a tarmer can make, will be productive of so great a profit as a few dollars in do. mesuc fowls. They will cast, probably in wo case, more than fifty cents each per year for their food; the trouble of taling care at thena is fully countrlatanced by the pleasure they mive; and they will, or may be made to, produce each on an average, from 200 to 250 egers besides an occasional brood of chickens.

A Cure eon Coxsumptox: - Mr. Adam ISott gives the following statement in The Maine Farmer:-

A friend of mine, who resides in Industry, in this state, told me that his wife was sick of what the doctor called Consumption. Sine was visited by five physicians, who gavo her over. She was very sich-was unable to st up-hand a yery severe cough-and grew no better, "but rather worse"-sho faled very fast. She recollected that she had belore received benefit from the use of St. Jolm's wort ; her tusband procured some of $t$ : it was steeped, and she made it her constant drank. For four or five days thero appeared to be but litle aiteration; but afo inr thas she grew better very fast, her health was so :much improved, that in the course of sw or eyrit weeks she was able to resume her customary occupatoons-she commenced weaving, and wove about 40 yards of clouh. 1) ering this time she made constant use of St. John's wort tea. What had been done may arain be done. It helped her-it may help ouhers.

The tea may be made as you would mako peppermint or any herb tea to drink - by peppermint or any herb tea to arink - The
merely stecping the herb in waler. The horb may bo gatien? any time after it is
large enough, but the best time for gathering it is in the seventh month. Asiapply may now doubtles be fond in almost cuts y hay mow where there is any hay. 1 much approve of thas simple renedy."

Cere for Dropsy.-A friend has furmished us with the tollowng simple curn for dropsy. It has been tried wilh the greatest success by several acquaintances of ours, and we ourselies have proved its eflicacy on $a$ recent case on our plantation :-
1 gallon of best Ilolland Gin;
1 half-pound of White Mustard Seed;
1 handful of Horse Radish Rooi, chopped up;
6 pods of Gailic.
Mix these mgredients together in a jug, and keep the same well corhed. Shake the mixture repeatedily.

Dose.-From a tablespoonfull to a ware glass full, to be grven before each meal.

The most volent cases of drupsy have been cured by this remedy.-S. Abracultar.

To Dairy Womes.-We have recently witnessed a method of makng cheese, which, although not of recent menton, bay be new to many dairy women watha the circulation of our paper. It is somethurg after the mamer adopted in the manutecture of pine-apple cheesc. The curd is prepared as in the ordmary way, and put in a prece of coarse canvass, a portion of the theeads of wheh have been drawn out to make it more open, and allow the whey to esca; e freely. It is then hung up in the cheeseroom, and requires no fariher aitention, as the cheese fly will not athack $t$, and it is not subject to mould. We have the authority of those who have tested the expermment, in saying that this method is a great sas miry of habour; the cheese matures stoner, and is of better quathy than it dressed. The whey is allowed to dram ofi, and it will do so effectually, mstead of the violent pressing, which all dary women observe, forces out a portion of what should reman to add substance and ruchness to the cheese. The bag contaning the cheese should be made in the form of a beef's bladder. It is sometimes knit in the mamer of a fish net, with small meshes, but the most ready method is, to take a piece of coarse limen, and pall out three or four threads altermately, both of warp and fillngs, and put m the proper shape.-Niasara Dcm.

To Mate Slage Chefse.-Take the tops of sage, and having pressed the juice from them by beating in a mortar, do the same with the leaves of spinach, and mix the two juices together. After puthing the remuet to the mill, pour in some of this juice, rerulating the quantity by the coloar and taste to be gren to the cheese. As the curd apppears break it gently, and in an equal manner; then empying it into the clieese vat, let it be a little pressed, in order to make it cat mellow. Havug stood for about seven houre, salt and turn it daly for four or five weeks, when it wall be fit to eat. The sprnach, besides improving the flavour and correcting the bitherness of the sage, will give a much finer colour tham can be obtained from sage alone.

Watenproofrig.- $\boldsymbol{\Lambda}$ pint of linseed oil, two ounces of bees' wax, two ounces of turpentine, two cunces of good tar, and half an ounce of Burgundy pitch, slowly inelted together, and applicd to new boots, will render them woicrproof, durable, and pliant

Gatmer four Himes.- Just as likely as nut, you or yuurs will be sali before anuther sear expres, and hen jun or they will aced ductorms, maless yon conarne to preseat the necessity of a wat from the haght of the saddle bage, by a scasomable use of erven! and wholesome herbs. Nuw so the time to gather and secure them. Cut them when fall blossom and dry them m the shate. The valuable garden herbs are, varo, baten summer-savory, coll's toot, thyme, jepiermant, rue, worm-woud, rhubarl, hoarhouach, Sc. ; and those whel may be gathered tron the fields and roads are, pembroval, thorusalowort, lue-of-uan, sarsaparilha, catmut, motherwort, bubela, groh-thread, made:har, mellows, burdock, common dock, elecampane, Nc., se livery body caia, if he wall, easily secure to hamell any or all these and uther vaduble herbs; and then nean wimer, of he ts sels ani needs the use of them, he wall have them on hand wathout ruamug to a mure thoughtal or providem newhtuour's house after them.
lierte, if uried in the sun, turn yellow, lose them fragrames and mach of then real virtue. They should lie suread out tha, Eat on the flowr of a wariet or upen chanber anal lett to dry in the shade, benirg uccasounaly thried. Whata sullicuentiy ducd, they may be ned m bumches and hung mo. Maine Cultitator.

Asnes.-In no viae thing do farmers mahe so great a motake, as in the cakuatamo when they sell ther astes to the futwa manafacturers. Wicry bushel of asteso ts wurid a dullar to the harmer in the lung ran. Any soil that has been pleatunlly manared whin ashes, wall wot fal, under any mote of culture, in twenty years. l'rofessur lewng has discovered that in taking he hay frum a field, the prine:pal cause of eahamsion to the sull is the loss of putash contaased in the hay, and that it may te readdy restured by sunamg a than coathar of ashes.- Siandy Riacer Farmer.

Comari-In the New England Farmer, rol. Ni, No. 3, page 23, we lad the fullunang statement:-
"The late conquest of Algiers by the Frencl, has made kuown a new cement ued in the public worlis of that city. It is composed of two parts of ashes, three of clay, and one of sand; thes compustion, called by the Moors liabbi, being again mixed whi oil, resists the inclemencies of the weather better than marble itself."

Mr. Dorr, of Roxbury, called upon us a few days aro, to look up the above article an our back rolumes, and stated hat he used : cement made accordng to the above directonns, around the wimtow casmens of a stone house he was benthar, about the tme thas article appered, and thas proved as good as the statement represents. It is as had as marble, and will stick to woud as well as to sionc.-N. E. F'ar.

## USEFUL RFCEIPTS.

Broons Miniman-A. Muyck, in the Albany Cultwator, says he has cured severat cattle of bloody murrain, by the following receipe:-Wake one pint of tat, melt itadd one gill spirits of turpentine; then put in half a pound of sulphur, stir it till it is thin. Put it in a junk bottle, and pour at down the animal's throat.

To make Ofodeldoc. - A liquid opodeldoc for scattering swellings, curing sprans,
quart of prouf whishey, or ether proof spirit, "amm it wer cuals, bit num to blaze, and dissols. in it hade a phat of ruft soap. When coul, puit an a lucile and whathalf an ounce of Cataphor. When the ca:mpher is disesolved it whl le ready for applacation, atad wall furm a cheap and tiseful remedy.

To Dratien Mores-Drive them from ther hulde: iy phacmg slices oi leck, Marlic, ur omen, in a areentate withn their holes: thirir antiptly th these vertables is so erat that doy wili inmednely leave them ard exper themrlves to be taken. In the n:onth of Mlay and liegmang of June, it one sees a mule luil larper than usual, it is pretiy certan that there is a nest of young within a foot or cighteen inches from it.
To hay Chabhan than mas wav.-To cuery lise puat- ut cherries stomed, weigh vac of surar double-refiaed. P'ut the froit t.ato the pre erbit? fan with dery hetle wa-
 wat and machatily dry then; fut then whon the pan an, un, strening the surar beti: een cach laser of cherries; let it siand to melt ; then set the pam un the fire, and make it swhatur hut as belure, take it off; and reIG 1 the thrice wiht the surar. Jrain them Iran: the syra, ; and liay them single to dry on distae, in: die sun or on a stove. When dry, phat them suto a sieve, dip it into a pan of cold water. amd draw it instantly out again, and pous then on a fine soft cloth;
 lut: sun, or una at se. Keep them in a box, Wha laters of whe poper, in a dry place. Thas vay se the thet way to give phimpness to the frat, as well as colour and flavour.
Cuheavi Jas, Black, Ren, on White. let tae rat 'se wery ripe, prek it clean trom the stallis, brase hinatd to every pound put three quarter.s of a puund of loat-sugar; shr $1 t$ well and bol hati an hour.
'Pu Clahmy Slg.at for Swfetmeats. Brah as muth as requared in lareye lumps, and put a pumed to a hali a put of water in a howl, and it will dasolve hetter than when trohen small. Set it over the fire, and the "ell waif whice of an cere ; let it boll up, athl, when ready to rum over, pour a little cwd water in to ghe it a check; but when it rives a second time, tale it off the fire and set it ly in the pana quater of an hour, during which the bulness will swl to the bottom, and lease a black scum on the top, wheh taken of exaty with a skimmer and pour the syrup into a vessel very quickly irom the sedment.
'Ho Presemve Raspammes-Pick your rasplocries un a dry diy, just before they are sully rupe : lay them on a dish, beat and sift their werght in tine sugar, and strew it o:er them. To ciery quart of raspberries, take a quart of red carraat je!!y, and put to If its selght of tine sugar ; Loll and slim it well, then put $i: 1$ your raspiberries, and give then a scald. Thate them offand let them stand lor two hours; then set them on again, and scald ant!! they look clear.
 your currants very carefully and if it be necessaty to wash liem, be sure they are thoroughly dramed. Mace them in a stone jar, well covered, in a got of bohling water.When cooked suft, strain them through a coarse cloth add one pound of fine Liavana sugar to each pound of the jeily, put into a jar and cover as above. Or you may break your currants with a pestle and squeeze them through a cloth. Jut a pint of clean sugar to a pint of juice, and boil it very slow

We tako inuch pleasuro in recommending atr. Harrington's inproved "Straw Cutter," to the notice of the furming public, belioving it to be the Lest article of the kind that has ever been offered in tha Canadian market. It can be worked either by hand or horse power. We have
not spaco allowed us to point out the benclit of this useful Machino, but wo advise tho farmers en call and examme for themeclore,-ELb. Cele.

Connection--It the 18 th the from the top, fint columin, paye 96, fur "ll 10.,." rcad "blat unported Bull, 52 LOs."


GILSON'S DATHETT STILAW CUTTEYR.
OR SAIE by the Subscriber, a largo quantity of the above celebrated Machines. JOLA MARRLNOTON, Irommonerer, No. 110 King Stree, 'Toronta.
N. B.-The above Machines are in general use througtout the Inited States.


150
TONS of Van Norman's and American patiern Cooking and Parlour Sioves for sale by

JOHN IARRRAC'TON, Irommemere, No. 110 King Sireet, dinomo.


## HERKSHIRE HEGGS.

$T$HR Subscriber begs to call the atention of the Farmers who may be desirous of improving their breed of Swine, to his stock of full bred llerkshare llogs, of whirh the following are for disposal on reasonable terms : -7 ligs 6 weeks odd, 5 do, 1.1 weeks old, and 3 Sows and 1 Boar 8 months old.
Mry full bred Berkshire Boar York, which was advertised in the January numier of Tae Cultivatur, is still in my possession, and wall serve Sows for one Dollar cach,

JOILN SEVERN.

Conatents of this Number.
Editorial-Ackuowledgments-Tuour non. pand Smberihrer...............................
Stath:ic:-The ammall produce of Brtam-Rust-Achowfodements11

Exumplorans - 1 hins - Afur grass on mudows................... .....................
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