Budding cherries, plums, de, mary fe done so soon at the temnimal but- berin to furm distlatl! Grape vitu- hould ber layered it it is destrod to proparate fom them. This is a verys simphe and sume muthod wimuliphication. Head down strong shoots of this year's growth, and bury the middle portion of them with a few inches of soil. Befor winter, plents of roots will hare formed, and strong plants may thus be got. Old raspleery canes mar be cut duwn so moon as the bearing season is over. Strawberties may, if desired, be transplanted during the period of partial rest that succeeds fruiting. They uust be taken up carefilly, the large leares cut off, and the ponts kept moist by planting them in mud, and keep. ing the surface well mulched. Insects of various kinds muat still be watched for among the fruit, and, as far as possible, destroged. The kitchen garden will need close attention this month. What with weding, bocing. making collery trenches, transplanting late cabloages. cauliflowers, de., there will be enougb to do. Encouraging returns now begin to be received in the shape of wholesome vegetables, and this, while it remunerates past labour, incites to further diligence. Swarming, the care of new stocks, and watching, from time to time, the condition of the Wecs, will necessitate daily visits to the apiary. Meantime "the little busy bue $"$ is repaying the attention bestowed by "the swect store she makes" during the short weeks of the aleeting summer time.

## Broad and Narrow Furrows.

rae English farmer thinhs no ploughing good for any thing that is not narrow in the furrow, and straight as a line :-he expects every strip of soil to be turned fairly over, and laid closely and compactly against the preceding slice; and where the ploughing is on clover ley for fall wieat, the "presser" is used to follow the plough and "press" each succeding furrow slice so close down on the preceding, as to leave no room for the seed to waste by falling betreen the furrow slices, and so being too deep to come up well, or be lost altogether. Clover ley land in England is preferred for wheat in all these kinds of rich land where the four-field system is used, riz., wheat, turnips, barley, clover, and then wheat again. In this system the land is nerer allowed to lie two years in clover, and the clover is generally fed close off before plonghing. It has first been mown for hay, then pastured; where manure is required, it is spread on the clover before ploughing, and then plougbed in. This in Britain forms an allmirable tilth for wheat, but does not seem in such favour lere. The reason we imagine is, that the semen for sowing fall wheat is so much earier here than in Britain. Here, if we lope for a crop, it must be sown during the first week in September. In Britain they constantly sow as late as the fift of November, thus securing three months more feed from the clocer. The has crop on closer land in Canada is much later. Here we use tinothy and clover; there they use rge grass rith the clorer, and cut as soon as the clover flowers are well developed.

Clorer ley land ahows good ploughing (or what is called such) to much better effect than almost any other. There is sufficient adbesion in the furrow slice to hold well together, and as the land is always clear from obstruction, and "fared out," as it is called, with the utmost exactness, the field when finished shows a completeness and orderly appearance rery seldom attained in Canada. The wheat being sown on the newly-turnedi-up ground, naturally fulls from the sides of the ridge into the hollows, and to an unpracticed eye appears to have been drilled. The furrows are seldom more than ninc inches wide, and oftener seren inches; and when the land is clean from couch grase or other reeds, the work is beantiful ; but where couch grass is plentiful, it grows as timet nearly as the wheat. As the furror slices are not turned completely orer, but only partially so,
the couch grass is only buried on one side, and
springs out betreen the furow slices with great luxuriance. This muat be wront. - the couch grass where buried cullicieutly weep is hilled, where the blake can grow the root npreaty egually hat. and the conseguence in, that the wheat stubble (that is, the ground after the wheut is cut) is one mass and mat of couch roots. We must believe, reasoning from analogy, that the same land, if plunghed with the double Michigan plough, of which a cut will be seen on page No. 113 of Vol. 1. Casaios Farmer, would be infinitely better done. The double action of this plough would make f.ur completer work, though not so sightly. The upper and formard or coulter plough shims off all the clover and couch roots, and deposits them at the lontom of the last furrow; the second mould-1soard or main plough brings up the lower soil free from roots and weods, and thoroughly covers ererything likely again to grow, and leares it to rot and decay at the bottom of the furrow; so that when well tone no one can tell, without furning orer the soil, what the last crop was. We bave seen wheat stubble (ami that not cut short by any means) so completely buried ly this double plough, that it was entirely covered unt of sight, and no one not knowing the work of the plengh ronld suppose it possible to bave been a wheat stubble fiell, as it looked, with one ploughing only, more like a very clean old fallow.
The result of the English clorer ley ploughing and its atteudant couch cultiration, is seen next scason. The conch grass has so spread and increased that when the land is fallowed by repeated ploughings, draggings, and harrowings, and all the roots of the grass are got to the surface, it has to lee raked and hand-picked off and burnt on the ground. the couch heaps being often as close together nearls, if not quite, as to weight of crop. as an ordinary cut of a Canada gras; field. After culture with turnips, and then for barley, goes a long was towards killing the remainder of the conel grass; 1 Jut there is always surficient left in the soil of all land farourable to it, to give a thorough crop the fourth year, and we cannot but in a great measure attribute this to the peculiar mode of ploughing the clover ley for wheat. Conch grass thoroughly buried 5 or 6 inches deep is killed: but where it is only half buried, it seems to delight in such cultiration, and increases with great rapidity. Jf ploughing is intended not only to more the soil, but to kill the weels which rould otberwise survive, that kind of ploughing which buries the weeds deepest and moit completely mast be the best; and if
this is the case. sich ploughing as is shown off at this is the casc. such ploughing as is shown of at
plonghing matches, instead of meeting with reward. ought to be universally condemned. What should we say of the tardence who conducted his digging in such a manner as to leave half the weeds and grass within the influence of the air, so as to allow their roots to increase and fill the ground during the grow ing of the succeeding crop? We imagine he would soon le sent to the right hbont, and told that a hog would root up the ground better: and yet in all good ploughing (s.) called) this is most certainly the case. We do not for a moment mean to decry the shill which is shown at ploughing matches. Such exhibitions lead to the beat results, and create a competition which must conduce to good ; but we wish that farmers would look a little farther, and consider results as well as the beanty of the present process. All, so far as we erer heard. coneijer that good dig. ging is the best possible mode of cultivating the soil ; and if we would at all approach the result of digging. it must be by completely and thoroughly burging all that was on the surface so deeply, that there is no chance of its again growing from the same root. We know a certain rougtness or means of burying the sed is absolutely necessary. but we to not think anything like so much " seed furrow," as ordinary good ploughing lears, is absolutely necessary. We are well arrare that in drill husbandry one-half or
one-third of the seed will often produce as heaty a yichl per acre as the quantity commonly used on ine old brondeast system. The reason for this is manifestly that the seed is all crenly spread orer the land at an eren and regular depth; Whereas, in sow. ing broadcast on land rongbly ploughed, a great deal of the seed is buricd too deeply erer to come up at all, and a good deal is left so near the surface that it perishes.
Let any one try 100 gralns of wheat at 1, 2, 3, 4 , be found to veretate at 2 incbes, the next at 3 , and
so on until at $G$ inches deep none will come up at all, or if any does, it Fill bo poor, punr, lightt-green Further evidence on this head can be obtained by counting the wheat plants on a sequare yart ; yot will tind by the rale of plant you have that nere erery seed sown to grow, a peck of wheat would b sumfichl for an acre. We know that some seed will be lost by birds, and some plants will be dentroyed by insects; but not more than one-fourth the mumbel of seeds sown broadcast ever come to maturity. This, however, is not the case with drilled grain.

In American ploughing, owing to our being used to newlycleared land, where straight, oven plonghing is inponsible, that plough which will go over the most ground in a day in gencrally (perhaps too often) considered the bent. The old Pully plough throws furrow of fourteen inches wide when forced to lis work; it hearel up the ground in a rery rough state, requiring the drag to lerel jt ; but many will yet argue that it sares both time and labolur, and prodnces as good a crop as the best Scotch plough Which can be obtained; whilst judging from the apparent labour of the horses (for we bave nerer seen adynamometer of the horbes (for we bave nerer seen a dynamometer
used with it) it goes no harder, if so hard, as the Scotch or best English ploughs. It certainly breakn up the ground most perfectly, and docs a great den of work, though it does not do it handsomely-accorling to receired ideas.
We do not mean to lay down the law that either the wide or narrow furrow is the lest,-our object is by discussing the matter to make farmers think of what they do, and possibly place the matter in a nem and lifferent light before them.

## Agricultural Associations and Orderdraining:

To the Falitor of Taz Canada Farmaz:
Sir,-Our Agricultural Associations coald not do betler than to encourage a thorough system of drainage. There are prizes given for all kinds of produce, but none for the best mode of preparing the land to grow them. It is strange, in the face of such positive proof of the beneft of draining, as is given in Great Dritain and the United States, that our Socictien hare not erinced a more lively interest in this direction. Some may say that our country is new, and, hence, it cannot be expected, nor is it required, that we should thorough drain. Now, since our country is old caough to ahow improved stock, and implements of erery conceirable variety, I hold that it is high time to show improved farms. And, unquentiomably, the most permanent and profitable auriliary to this end is, a thorough syatem of drainage. It ahona also be remembered that the freshness of the soll furnishea an additional reason for draining it, as, by adopting his courne, we will preserve it in if original lisht ness, friability, and fertility, for generations.
Your isuce, of Junc Ist, contains an excellent communication on the mubject of "Spring Sceding and Drainage," in which the writer, Mr. Onborne, malies a munificent offer to a "Drainage Prive Fund." In refercace to the terms of Mr. Osborne's proposal I am of opinion that the competitons should not be restricted to une tiles of not leas than three inch bore restricted to une tiles of not less than three inch bore, as tiles of this ize do not constitute ten per cent of
those used in thorough draining. $\boldsymbol{A}$ bore of 2 inches is sufficiently large for lateral drains, under ordinary circumstances, aay, thirty feet apart, and may extend to the length of forty roods. It is uscless to drain as an expense of $\$ 2 j$ per acro, when it can be done at effectually for from $\$ 18$ to $\$ 20$ per acre. Three inch tiles are sold at $\$ 10$ per thousand, and two inch at SO ; while a thousand of the former makes two good oads, and the same number of the latter bat one, a consideration which lemens the cost materially, when the distance of carriage is great. Hence, it is obrious, that a prize oficred, under the reatrictions referred to, would only hinder the object which it is designed to encourage, an farmers would be deterred from draining entirely.
I would suggent, an an amendment, that a prize should be given to the farmer who invested the greatcst amount of money in drainage, Fhich ehonld be determined by a certain afred price, per rood, according to the cire of tiles nsed, and depth of draln. The size of tiles ahould not be less than two inchem, and depth of drain, as Mr. Obborne specifes, "not less than thirty inches,' but this might be left to the option of the compotitor, as no mane man will commit suicide for the sake of the Insurance. This courto wonld prerent a monopoly of the fund, by ang one who might be preposscased in farour of tilea, of any particular size, regardlem of cont, and would bo an additional inducement to farmeri to contribute to the fund.

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[^0]:    Brampten.

