backwheat, the farmer is free from any fur ther tax on his time during the busy season. After the crop is removed, and without delay. run over the whole with the sultivator till every weed or thistle (should there be any) is cut off. This will excite all the seed that is shelled out to grow, and then it will not be troublesome the next year. Late in the fall the ground may be deeply ploughed, to he sown with barley and seeded down with clover in the spring. Use the cultivator in the spring, but not the plough, and then to the surface. The serious tax on the farmer's time and pocket in boeing out the! thistles from his young grain crops might be ' overcome in the following manner. Two ! neighbouring farmers had, one a field of spring wheat, the other, oats. The ground was ploughed in the fall, and both fields thoroughly infested with thistles. It was in 1866, when the Thistle Act came into operacome in ear, took a sword, in the form of an old light scythe, cutting a piece of the blade off at the burt end and straightening the same tor a handle, then walking through his wheat, ariking right and left, he cleared a space or some ten or twelve feet. The thistles at this time were just a head and shoulders above the grain, so that he did not injure his crop at all. A few days afterwards, the wheat having grown, there was not one thetle to be seen in the field. They were farly checkmand; but being cut off too high, tione of taem were killed. The farmer with h' oats adopted the following plan, which was a cumpat-ory one. When his thistles were hait a yard high, his outs were only about had as much; and seeing that if somebing was not done he would have a crop of histles at the expense of his oats, he had them moved as a crop, cutting them off just at the top of his oats and about half way down the stalk of the taistle. Now, speaking in general terms, these thisdes all died, they never rallied again. Either, or both, of these plans might be useful in the forthcoming season; for to spud them alt out is nearly impossible, as I have seen them so thick that I

In conclusion, I would once more refer to the system proposed by "Vectis" and "C" in contrast with the panacea, or clover system, for the entire subjugation of that pest, the Canada Thistle, which, "Vectis" says, is becoming alarming even on the farms of some of the best farmers. After proposing his infallible remedy-five ploughings-at the beginning of the next paragraph (page167)

them grow exactly as "C" recommends, to good fallow." Now, Sir, here is a desperate the middle of June, and then either mow or disease, known and felt by thousands, and plough them in Then let the ground be well here is the one and only temedy put forth by barrowed, or use the cultivatio, or both; and | "Vectis," and tantalizing to a degree it must then sow the ground with buckwheat. This be to be told that it can do them no good, as can all be attended to after all the root crops they cannot apply it, our if you could, we are sown. The ground being sown with think it would pay you." There is one point the writers both agree in, that if their systems are acted on, it must be both hot and dry. The next thing the country, is entitled to know from these writers is, what plan have and cold, as their work is but just half done.

For the clover system I ask fair play, a foul season, a foul field, and no favour.

PUBLICOLA.

to discuss this important question or pass an, opinion, we cannot forbear remarking that the same ground will not be brought again the smothering system of "Publicola" may undoubtedly clean a field of one crop of the thistle, but what becomes of the countless myriads of seeds with which the soil is filled? What is to hinder their germinating and regrain crop, sown. The great benefit of a fallow and repeated stirring of the ground is that fresh seeds each time are started into life and tion, and there was danger of being flacd, the plants killed by the next operation be-The farmer with the wheat, just before it fore they have matured, and thus the source of the mischief—the seed of the evil—is combatted and exterminated.

Grafting Potatoes.

The potato grafting question, says our English cotemporary, the Agricultural Gazette, is progressing. "It has passed through the stige of assertion, it has had to bear the brunt of ridicale, (this stage is probably not yet complete), and now it is passing through the examination period. By and by, if, after due examination, it shall be accepted, we shall have people crying out that they knew all about it years ago, that it is not new, that thei grandfathers practised it, and so on."

When a standard periodical, like the Agricultural Gazette, speaks of a fact in this manner, we may be sure that it has reliable grounds to go on, and that the question it treve of is neither a myth, nor a humbug; and the subject may very properly be again considered in these cotumis.

The intention of the operation is to cause a variation, a hybridization between two kinds of potatoes, by compelling the mixture of could not do an acre in a week by spudding, the juices and sap of two kinds, and thus to alter the nature of the root, to sink a bad quality and bring forth a good one, and even by such a mixture to produce an absolutely new variety; for the grafting a potato, unlike the grafting of an ordinary tree scion on a stracted eyes, the one for the other, taking tree or woody stock, does not produce a con-especial care that the rind of each eye fits tinuance of the branches and body of one the rind of the tuber, and makes a nice even kind of tree, on the roots of another, but so joint. Then with a knife, or other instru-

had to grow any grain crop, that is, to let' dom that farmers either can or will make a continuing its kind by the future planting of the so produced tubers.

The mode of conducting the operation we reproduce from the same unthority, somewhat shortened, however. Take any two sound poteties of different varieties, whose good qualities you wish to retain, cut out all the eyes of one of them entirely, with a common pocket knile; they cut out a piece of he potato in the form of a wedge, and substitute for the pit so removed, a piece having a good eye or two, nicely sproated, about half an they to propose to meet the exigency of wet, inch long; then the firmly together with a piece of hast matting, or string, having first run a couple of ladies' hair-pins clear through both potators. These hair-pins will prevent _ the tie from slipping off the potatoes, as well Note by Eprion - Without attempting here | as assist in holding both parts together. The fit must be a good one, and the bark or rind . of each must meet as in any other mode of grafting. The operation must be performed quickly, and the grafted set must be planted as soon as possible, as the sup would dry up if exposed for any length of time to the air. The trench should be opened and manured newing all the trouble as soon as the clover ready to receive the grafted tubers, and they field is ploughed under and another, say a should be placed therein and covered un quickly with the soil. Rounds may be grafted with Kidneys, or cice versa, or Rounds may be grafted one on the other. Let it be perfeetly understool that not every on- can graft potatoes successfully, and because you fail don't blame the system. The operation should be performed by a person who tho. roughly understands grafting fruit trees, then there is a chance of success; but even he may fail.

Another system is to take two potato plants growing close together, of different kinds; when the plants are well sproued, remove the earth, and take care that you haveonly a single stem from eacl potato; bring the stems close together, graft the stems by inarching, binding the stems together with a soft elastic bandage, and covering the bandage with wet clay, or grafting wax spread on cloth, so as it may be removed when the stems have united. The result (if the opergtion is successful) is, that the tubers on each plant will show a great variation from each other, and also a great variation from the original kind; and as these variations, in the present state of knowledge on the subject, will be entroly chance work, you have to select from the produce, and try the tubers the second year, before the benefits, or otherwise, can be ascertained.

Another method is to take a large quill, cut it off square, and with the edges of it force it into the body of the potato at the eye, in such a manner as to withdraw the eye and a small portion of the tuber. Then make a similar hole over the eye of another tuber, withdraw the piece, and substitute the abmixes and amalgamates the sap that the pro- ment, cut away all the eyes from the rest of are these strange words, "It is very gel. duce is a joint variety, which is capable of the tuber, leaving the grafted eyes, of course,