principles of natural history justify it.

It appears necessary :-

ment. (See Mr. Williamson's statement Agricul. p. 44.)

p. 51., and Cul. p. 21.)

Mr. Thorbura.

That the inference is fairly drawn from

tinued for any length of time

the essential properties and generally most of the plants or annuals, by a single reproduction. incidental proporties of the progenitor

dency both to improvement and to deterioration. I experiment.

tion of the progeny.

5th. Although great changes may be produced quently many reproductions.

vauen, &c., will do much to vary the apparent loss of vitality from age in plants

7th. Plants that have lost their vitality are more subject to the attacks of parasites than plants in Mr Smith of Buffalo, and his success has been as depredations to the plants in which they originate. [

8th. The production of abundant blossoms few of which are succeeded by mature fruit, is an indication of loss of vitality, and generally on account of old age.

These propositions are too simple, and obvious to every careful observer, to adout any doubt. It would indeed, seem to be a retrograde movement explain on the phenomena that have been observe I and reported in relation to the potatee rot.

The plant is said to be attacked by aphides. this is true, but a is explained by the 7th proposi tion above - Plants that have lost their vitality are more subject to the attacks of parasites than plants in full vigour. Fungi have been found in great abundance upon the diseased plants. This is explained in the same way, but it is said the attacks of these same fungi are not confined to the notatoe, and hence it is inferred that they do not originate in a disease peculiar to this plant. Parasites often prey upon plants in which they never origi-

It is said again, that crops, in many instances, were less in tred by the rot in 1846, than crops have killed and seen killed. several patches of upon the same ground were in 1845; although these weeds by this simple process. You will at crop of 1845. This is explained by the 6th pro- act accordance with the principles you so clearly position, which also accounts for the different de- explain. I substitute the plough for the hoc, grees of disease in different soils and with different potnich would require too much labour for a large manures. In short there is no well authenticated patch. Wishing you every success -an increase eact in relation to the disease, that may not be of Canada Pariners," and the utter extinction artisfactor, expanded by supposing the cause to of Canada dustles," I beg to say. I am, he from the lag continued propagation by the root, wallout removing from the seed.

Although I have already said more than I at first intended to say, yet I cannot dismiss the subject without bestowing a passing notice upon some editorial remarks in the Albany Cultivator.

himself to take so superficial a view of this impor- sibility of cure. Try it.

appears to me reasonable, because established tant subject. In an article in the January No. p. 21, he says-" If it were true that the potatoe disease were wholly constitutional, as our correspon-1st. Because the committee appointed by the Viceroy of Santa Fe de Bogota, nearly This is a strange inference indeed! He might as one hundred years ago, to investigate the well say, if a man is affected with the scrofula, or same subject, after laborious research report- any other constitutional disease, it is of no conseed that the disease was caused by loss of vi-Iquenco what regimen he adopt, he will be just as tality, which must be renewed by planting likely to die under one course of treatment as the seed from the vines; and further, after another. Again, he says-"If it can be proved five years they reported that among the plan- | that varieties of fruit degenerate by being propaters who had propagated new varieties from gated by grating or budding, we should regard it the seed balls of healthy tubers, not a rotten as evidence that the potatoe might be effected in potatoe could be found. This is a matter of or have spent his days among seedings, not to record found in the archives of the govern- have had opportunity of knowing by his own observation, that although the quality of fruit is not deteriorated but rather improved by grafting; ye 2nd. Because the well attested facts, stat- the vitality of the graft cannot be protracted much ed by Mr. Smith, of Buffalo, as the result of beyond the natural age of the original stock. The his experiments prove the same thing, (Ag. choicest from of former times have all passed away, notwithstanding the efforts to continue It may be stated also that the Savans of them by grafting, and have been succeeded by new Russia, appointed by the Emperor, to invessionation obtained from seedings, many of which tigate the subject have come to the same confact so well established and so important, that it clusion, and induced the Emperor to order ought to be known to all interested in the cultivifrom this country all the seed that could be mon of trees, and other plants; and especially to procured, as stated here by the venerable those, who, from their position, are to give direcoon to the opinion and practice of others.

Again he seems to infer from his own experiprinciples and facts in natural history I shall cance that the disease in the potatoe cannot be now attempt to show, and 1 hope to do it read, cated by planting the seeds. He says— of satisfactorily to ever candid mind. It may be the six or seven kinds produced from seed, nearly proper here to state some of these principles and were evidently officied officied, by the potatoe disease." Yet he admits that—"One or two and facts—I offer the following proposi- kinds seemed to have more natural stamma than the others, and continued vigorous till the close of 1st Although most plants may be propagated the season." This is precisely the result indicated either by seed or by cuttings, the former method by the 3rd. 4th and 5th of the above propositions, only can be perpetual: the latter can not be con-It is not to be supposed that a deeply seitled con-2nd The progeny of any plant will possess all sututional disease can be wholly eradicated from

His own account, however, shows considerable 3rd. There is in the procreation of plants a ten. (advancement towards renovation by a single

4th. The better the condition of the plant at the | There is certainly enough of probability about time of procreation the better will be the condi-) this theory to claim for it a candid consideration. Let it then be fairly and fully investigated. Let experiments of planting seed, be continued, and in plants, yet these changes require time and fre. Het the facts observed in all attempts, to renew the vigour of the plant in this way, be compared 6th. The circustances of soil, climate, and cultiparent discrepancies let them be published, and of they cannot be explained, by the principle of this theory, let it be abandoned.

An important step has already been taken by a vigorous state. Plants have their peculiar pa- great as could reasonably be expected. It has, in rasites but they are not always confined in their fact, been in exact accordance with the fixed law-

This subject should be met by careful investigation, founded upon sound-principles, and guided by common sense; not by that guessing method which knows no principle, unless it be to adopt the most popular opinion.

In conclusion, let me ask-is there not much eason to believe that if these experiments be coned, they are sufficient for my purpose; they will bulls selected from the most vigorous plants; in it during the winter. a few years the potatoe rot will have wholly ceased, and this distressing calamity will have passed

To the Editors of the Canada Farmer.

GENTLEMEN :- I beg to state for the information of your correspondent "Thistle Farmer," that a sure way of extirpating the Canada thistle is as follows:-Plough them early in the spring and continue ploughing them every two or three weeks during the summer. The next year pursue the same course and in the fall you may sow wheat, your ground will be in good order and you will not be troubled with many thistles. I the seed for the crop of 1816 was taken from the once see. Messrs. Editors, that this plan is in ex-

A SCHOCKIBLE.

Whaby, May 15th, 1847.

WARTS.—Warts on the udder and teats of cows may be easily removed, simply by washing them in a solution of alimn and water. We have them in a solution of alum and water. Fregret that a person who stands so high, as the editor of this valuable periodical, allow the editor of this valuable periodical, allow the editor of this valuable periodical, allow the periodical to the periodical of the many first trip of the periodical allow the periodical allows the periodi

FORWARDING BUSINESS-CITY IMPROVEMENTS.

From the Government wharf at the west to Gooderham's wharf at the East of the city is a distance of about two miles, along which is interspersed a large number of wharves, all showing signs of substantial improvement. The class of vessels employed in the Lake and River trade is every year getting larger; and it is found that the smaller ones have not the slightest chance of competing successfully with the larger. It is said by those who understand the subject, that when the counts to Montreal are completed, flour can be profitably carried from this city to Quebec for 1s. 3d. a barrel; though last summer the forwarders charged 23, and in the fall 2s. 6d., and even higher than that. The Kingston forwarders have not yet published their tatiff of rates, but it is said that they stoutly refuse to carry flour from Kingston to Montreal for 3s. and it is expected that they will demand 3s. 6d.

In noticing the improvements that have taken place in the wharves of this city since the close of unvigation last fall, we will commence at the East and proceed to the West.:

GOODERHAM AND WORTS WHARF .- This is a new wharf, built during the winter, with a store-house upon it, by Gooderham and Worts, owners of the City Steam Mills.

The mention of steam mills reminds us that Mr. Cleal has just got a Steam-mill into operation in the vicinity of the market, in the Engine of which he has made some improve-

Mr. SMALL'S WHARF is the next as we proceed westward. A new Glue Manufactory and shed for drying have been built on this wharf during the winter. A new Steamboat, the property of Mr. Lamontaine, has been built at this wharf. She is intended to run to the Island, her proprietor having leased five acres of ground, from the City Corporation, near the Block-house on the Peninsula.

Mr. CLLL's SHIP YARD. - A new threemasted Schooner, the Iceland, 130 tons burthen, has been built here during the winter. A new Schooner, the Ardelia, 75 tons burthen, has been built at Mrs. Maitland's old wharf suce the fall of last year.

MR. CAWTHRA'S WHARF .- New buildings have been put up here for a Timber Yard.

MR. ALLEN'S NEW STEAM MILL.-The next important undertaking westward, on this line, is an extensive new Steam Flour Mill, which is being built on the property of Mr. Geo. Allen, son of the Hon. Wm. Allen, and which we believe is to contain six run of

MACHELL'S WHARF, which is the next in in science to attempt to prove them, yet if grant-tinued not only planting seed but the seed of order, has had a new Store-house built upon

> FRONT OF THE MARKET .- The Corporation have put down breast-works, and are busily employed in filling up with earth, which when completed will extend to the esplanade bating about 80 feet.

MR. BOULTON'S WHARF has been extended 13 cribs in length during the winter.

MR. HELLIWELL'S WHARF has likewise been extended 9 crib.

MR, MAITLAND'S WHARF has undergone thorough repairs and extensive improvements. A new front has been put to it, and the old parts at the sides renewed. A new Storehouse 100 feet by 60, and capable of holding 15,000 barrels of flour, at a cost of about .£1000, under the superintendence of J. Johnston, Esq., Architect. The Custom-house has made it a bondingwarchouse. There are now three bondingwarehouses in the city, viz., Maitland's, Browne's, and Gorrie's. On Maitland's wharf there are 1000 barrels of flour and 100 barrels of oatmeal, for the Toronto Highland Relief Fund. A handsome new brand, "Highland Rehef Toronto" has been made for the purpose of branding them. There are also on this wharf 50 barrels of flour for the Scarboro Highland Relief Fund .- [Examiner.

" WE HAVE DONE WITH THEM."

Our readers must bear with us; we have an unpleasant subject in hand. The Editor of the Cultivator basthrown down the gauntlet; and the first law of nature, self-defence, bids us take it up. With that peculiar cumming, which characterizes the lower order of animals, the Editor of that paper attempts, in the outset, to get the better of us by placing us in a filse position. Let the public hear his accusation:-

" In the April number of the above paper (the Canada Farmer) the learned Editors have thought proper to make three most unwarrantable attacks upon us; and indeed their short career has been pointedly marked with a factions spirit of opposition to the conductor of this magazine, which strangely and strongly contrasts with the spirit we have, both in private and public, main-factor to arch than?" fested towards them

We deny the whole charge, and call upon the Editor of the Cultivator to produce his proof, not a tittle of which has be attempted to bring forward. That our allusions to the Cultirator have invariably been made in the spirit of candour and fair discussion, we appeal to our readers, we apreal to the public, we appeal to the whole cotemporary press, which from Halifax to Wisconsin has noticed our labours in a most flattering manner. Unless the Cultivator produce proof to support his accusation, he will stand convicted of having uttered a deliberate falsehood. He claims great credit for "the spirit which he has manifested" to us in private. We acknowledge that until recently we have no rudeness or incivility to complain of On the contrary, one of the Editors of this journal, was, after a very slight acquaintance, asked by the Editor of the Cultivator what Grammar there is, composed for children, from which he the (Ethtor of the Cultivator) would be likely, in the shortest time, to learn the radiments of his native tongue. "Cobbett's Grammar" was recommended in the same friendly spirit in which the advice was asked. But, we are sorry to observe, that every subsequent number of the Cultirator bears conclusive evidence that our advice has not been acted upon. And now the Editor of the Cultivator, who cannot write a single sentence in English correctly, and whose journal, save a few extracts, would be a disgrace to the literature of any country, turns round and advises us "not to write on subjects we do not under-

The Editor of the Cultivator never lets shp an opportunity of putting houself: "For the information of these Editors (of the Farmer) we would state, that we print an edition of eleven thousand copies of the Culticator " "Print"? Pray, Sir. how many do you circulate? Asthis information is given for our especial benefit, we are, of course, at liberty to make use of it, and comment upon it in all its bearings. We have no doubt that two thousand, or thereabouts, of the Cultivator, is sent into the world at each issue, of which some hundreds have been, in a very unfair manner, thrust upon the members of Agricultural Societies; many of whom, however, have the good sense to leave copies addressed to them in the Post Office, rightly judging that it would be very foolish to add the loss of postage to the

The Cultivator has been got into circulation by the most barefaced jugglery that ever imposed on a credulous public. Before that journal came into existence, several really valuaable American Agricultural journals were circulated in the Province. But on the establishment of Agricultural Societies in Canada, which the parrot-like Editor of the Cultivator, echoing the sentiments of American journals, recommended; and has since incessantly contunned to chatter about; at this time, or shortly after, he made these Societies a crutch for his deformed banding to lean upon. So soon as he succeeded in getting it made part and parcel of these Agricultural Societies, his object was gained. The speculation was successful, and the Editor of the Cultivator set up for a Patriot! Somewhat different from the Patriot of former days.

There can, of course, be no impropriety in Agricultural Societies taking Agricultural papers; on the contrary, it is their duty to desseminate knowledge by such means; but it is not right that every member of an Agricultural Society should be forced to pay for a journal, which all the more intelligent look upon with contempt. Valuable Agricultural journals have in consequence of shis manocuvre been nearly driven out of circulations and the Culticator has therefore inflicted a serious injury on the Agricultural interest. The thing was managed in the first instance by whining and spiritless appeals to the sympathy of the farmers; by fabricating stories about five-hundred pounds being lost in one year by the Culticator: when, as any printer will attest, the whole cost