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hoalthy nutrition of a new living being. Mr. Rogers has found by experience that potatoes are exempt from rot, if planted late in autumn, and never disturbed in the spring, but cultivated as if planted at the latter season.

It has long been a source of deep regret to us that the study of vegetable pliysiology, and of the diseases incident to cultivated plants, is цenerally so little : lished, and so unpopular, in the farming community. Hence we write every sentence that relates to this science, in the fear of not being understood, and of exciting the disapprobation of many of our readers. But we must still crave their indulgence, while wo pursue the discus. sion of this subject a little further.

The premature developmert of the germs of potatocs is only one, and that perhaps the least injury, which thoughtless cultivators inflict on this invaluable plant. They omit to place within reach of its roots those alkalies and alkaline earths, without which no healthy and perfect tubors can bo formed. According to the most reliable analysis an acre of potatoes, tops and roots, weighing 7,870 lbs. dried, require in their organiza. tion 193 lbs . of pure potash and soda.Ashes and common salt will supply these elements; but others are also needed, which a little gypsum and bones will furnish.

Nothing is more certain than the fact that, to withhold from any being, whother vegetable or animal, its appropriato food, is to impair its constitution, and ex. pose it in an eminent degree to become diseased and destroyed by injuries, whether by insects or other agents, that would fall harmless on well fed, strong, and healthy systems. A violation of the laws of organic lifo will be fatal, sooner or later, according to the extent of such violation, not only to particular beings, but to the fumily in which the injured indi. vidual is a connecting link between the past and the future. From this cause, many families in the highest class or genus of beings, that of man, have become extinct, although once endowed with great vital force. For wise purposes, God destroys families that, from generation to gencration, consume more than they produce, in idleness, extravagance, and vice. This is doubticss done to make room for the expansion of familics, distinguished alike for their industry and temperance, and the physical, moral, and intellectual strength which labour and virtue always confer. If we view human
action in its proper light, it will be found impossible, in the order of Providence, forman to inflict injury upon others, even on a potato plant, erreatly needed as it is by the poor, without bringing on him. self or his orepring a greater injury.But it is unnecessary for us to moralize on this subject; although morality and agriculture are more intmately connected than many suppose. Without any espectal violation of natural laws, we have no doubt that varieties of plants as well as animals will, ouc day, cease to have any living representatives on the earth. The researches made in that de. partment of Geology called Palcontology, which investigates fossil plants and animals, leave no room for doubt in regard to the extinction of many races, that have flourished for thousands of years on the globe. Hence, our able contemporary, Mr. Beecher, editur of the Indiana Farmer and Gardener, cxpressea a general truth too strongly when he says in a recent article,-"Any one tree may wear out; but a varicty never." A famils of plaats, or varicty of such family. may endure for indefinte ages. But in the ceaseless proyress of time, an epoch will arrive when this family, litio all the extinct famities, from the recent mastodondownward, will have no living representative to perpetuate its lineage.

We cannot dismiss this subject without remarking that constitutional wealsness in the putato plant can be remedied as well by propagation from the germs in the tuber, as from the seeds in the ball. The vital principle is as feeble, as much exhausted in the one organ of the being that forms einbryos, as in the other. If vitality be lacking in the germ found in the potato or tuber, it cannot be moro abundant in the seed. If plants gerninated from seeds appers more nealliy and vigorous than those fiom the tuber which gave the seeds, it is owing to extra. neous circumstances, belter care, keeping, less exposure, or some other incident. Unwise culture is only the predisposing cause of the potato rot; while the active agent exists unseen, and umappreciable in the atmosphere, like "the pestilence that walketh in darkness." We have good reason for the remark that, by supplying the crop with the precise ingredients required to form it, in its perfect state, and at the same time avoiding the bad practice of sprouting before planting, the peculiar malaria, insect, cryplogamic, or parasitic plant, or whatever else may complete the work of destruction, will pass harmlese ever the potato field.

