ON MANURING AND STEEPING OF SEEDS.

The following very able article appeared in a late number of the Farmers' Cabinet. But few of the Canadian farmers are prepared to make many experiments, especially those of a doubtful nature; but the modes for preparing seeds, here described, are within the reach of many, fluence their operations. and may be practiced no doubt with great advantage. The mixtures might be varied to suit the convenience of the experimenter, and others might be employed, simple and cheap cultivation of the soil by the arsuch as the phosphate, and sulphate of lime, charcoal, guano, and many others are prevented, practically tried for five years, and that might be mentioned, and if this plan was adopted by even a few of our farm- more worthy of the attention of the practical man. ers, most important results would ultimately accrue to the cause of agricultural improvement. There can scarcely be a doubt but that the system of steeping seed grain in some powerful stimulating proportion, food shall be given to each seed or manure will, ere long, be practiced pretty generally, for it is obvious that many soils have been robbed of the true elements of production by injudicious cultivation; and the cheapest way that those substances can be restored to the soil, for by manuring the seeds themselves which we wish the use of the crop is, by preparing the seed with such solutions as may be defi-thed: cient in the soil. Agricultural chemistry most beautifully points out the neces- any usually unfruitful soil. sity of supplying the land with such food as is found in the crop when in a state of in the soil, or of which it has been exhausted by perfect growth; this can only be known previous crops." by analyzation and practical experiment. The latter method of ascertaining the description of manure, and the amount familiar with the natural wants of the crops he required for the various crops and for wishes to raise, and with the kind of substances different soils, is the one which the practieal farmer must employ in the present ploys in preparing them for the seed. "infant state of agricultural science. and by this nethod most important dis-lby steeping the seeds in calammoniae, and drying

coveries may be made without entailing The diseases and casualties more or less subject to the crops cultivated in this country may almost wholly be prevented, if those who cultivate the soil would consult their own interests by Istudying into "the why and the wherefore" of the causes and effects which in-

Another German pamphlet on this subject has lately appeared from the pen of a Mr. Vietor, an apothecary at Neiderholm, in Hesse Darmstadt, under the title of "The Manuring of Seeds, or a tificial manuring of seed, by which, at the same time, the rust and other diseases of the corn-crops proved on a large scale." By C. L. Vietor. This author describes his methods, and is so far Before detailing these methods, however, I shall insert a few of his preliminary observations.

As the principle upon which the manuring of the seeds ought to be preferred to that of the soil. he remarks "that the manure can never be so equally distributed through the soil that the due plant; and that, besides, before the plant comes to require it, much of the organic matter of the manure has become decomposed and lost, and that even the inorganic matter is liable to assume forms of combination, in which it can with difficulty be made available to the neurishment of the growing plant."

These disadvantages, he says, may be avoided to grow, while, at the same time, the following advantages will attend the adoption of this me-

"1. The same crop may be repeated on the same soil, though already exhausted, or even in

"2. We can manure the seeds with those special substances only which it is not likely to find

This is an advantage which is possessed by all saline and mineral manures, and is one of those benefits which will appear more clearly and strikingly to the practical man as he becomes more which are present in hissoils and in the manures, such as farm yard manure, which he usually em-

"3. As the rotation of crops is rendered necessary chiefly by the abstraction of saline substanexperimenting in agriculture, it is the less from the soil, it may be rendered unnecessary wisest course to do so upon a small scale, by adding again these substances, in such a way as to be within the reach of the seeds only. Thus,