practicable, to the action of frost, snow, and air, journey would prove to be a kind of wildgoes is a most beneficial practice, and is largely fol. chase, and that he would probably have to trave lowed, in several parts of the country. Heavy far and wide before meeting with a case. The lowed, in several parts of the country. Heavy correctness of that opinion is shown by the mands are more particularly benefitted by being port now published, Professor Simonds having thus exposed in winter, and are found far more had to travel nearly 1500 miles before seeing easily managed in spring; thus securing a finer single case. tilth and an earlier seed bed. The underdrain opinion from the accounts I had received of the ing of such lands as require that most efficient means of amelioration and permanent improvement, can, from want of funds, and other causes, be only gradually carried out. But much may be done towards the attainment of this important object by furrow draining, either with the plough or spade, so as to relieve the surface from any considerable quantities of stagnant water.

## On the Non-contagious Nature of Epizootic Diseases.

BY PROFESSOR DICK, EDINBURGH.

(Continued from page 488.)

As already stated, when the report of the new plague or cattle pest reached this country, more than a year ago, my attention was directed to the subject, and, from the various detailed accounts of it in the newspapers, I came to the conclusion that it was an epizootic arising from some general-cause or causes cting on the digestive organs of the cattle in the countries where it prevailed, and that, unless these causes existed in this country, the disease would not make its appearance here. As this cattle-pest had committed great ravages in the east of Europe, and was supposed to be approaching this country, and to be highly infectious, it excited great alarm amongst owners of stock. The alarm rapidly extended, and a proposal was made—by, I believe, the Royal Agricultural Improvement Society of Ireland, which was afterwards followed up by the Boyal Agricultural Society of England-to send a veterinary surgeon to the Continent to investigate the nature of the disease. The Directors of the Highland and Agricultural Society having been solicited to join in the project, I was requested to attend a meeting of the Board to give my opinion on the propriety of joining in the expense of sending Professor Simonds, who had been proposed by the English Society. I stated that I considered such a mission to be unnecessary, as we could get every information regarding the disease from the veterinary surgeons on the Continent—a highly-educated body of men who had given the subject profound attention, and a translated precis of whose works would, it appeared to me, be more serviceable than any such mission as was projected. I moreover extremely lively for a short period."

I had been led to form such a obtained in a letter from the Vice-Consul at Memel, near to which the disease had approach In that letter it is stated-

"I could not be in a place more fitted to obtain for you the information which you desir's, seeing that this celebrated cattle disease is at presen within forty miles of us; and, moreover, the day after my arrival here, I was called upon h the Earl of Clarendon to answer the same queries, and obtain the same information as the now desired by you, and which I am now, a course, perfectly prepared to answer, having obtained the facts from the best and most a The symptoms of the disease thentic source. are: The animal, when attacked, becomes a tremely lively for a short period; the appetit is lost: the body trembles; the gums becominflamed; the eye becomes very dull, and & charges matter; the hair becomes very rough and the glossy pile disappears. Towards if and the glossy pile disappears. Towards it latter stages the animal suffers from seve diarrhoa, death ensues in from eight to twek On dissection the food will be found, the third stomach, a powdery dry mass. T stomach of the healthy animal is rose-coloure but when attacked by the disease, it assumes dark-red colour, and the veins become black No cure is ever attempted for the disease int district: but I am informed that, in varie parts of Russia, the animal has been subject to a process of steam bathing (that is, plan under the influence of steam), which has several cases proved successful. The only r thod adopted in this vicinity to stop the progr of the disease is by immediately instituting military guard round the farm or estate whe it appears, and neither man nor beast is allow to pass this guard until the last vestige of disease has disappeared. The disease is doubtedly contagious, and may be cone, from one place to another by goats, or she or even human beings. I have asked permis from Lord Clarendon to visit the district wh the disease is at present raging, which, if gr ed, will enable me to give you more delicalthough not more authentic, information shall be at all times happy to furnish you. any further particulars on the subject, if desire

The symptoms detailed in the foregoingle are very condensed, but they embody all a described by Professor Simonds. one prominent symptom, which has been great measure overlooked. In the letter: stated that the animal, when attacked, "beat stated that I apprehended Professor Simonds' given as a general symptom: but, with the