report from Memel, is always present. Hence year ago there prevaited in Ohio a most design we have all the symptoms of Rinderpest shown, except diarrhoa and dysentary, in those cases of Mr. M'Call's. The boweis, however, were in a loose state; and although diarhora did not occur, it was apparently only in consequence of the animals having been cut off by the greater violence and rapidity of the disease. But diarrhæa and dysentery are nothing uncommon in this country, and are well known to arise from matters taken into the stomach. Hence these diseases, one of which is generally a consequence of the other, must have been produced by the food on which the animals are fed, perhaps combined with other causes, such as fatigue and want of water, or water of bad These affections of the stomach and bowels at once explain all the other symptoms and conditions. The kind of discharge from the eyes and nostrils, the state of the blood, the flakes of lymph found in the air-passages and elsewhere, and the ulcerations, extending through the digestive organs, are only the natural consequences of the depletion and consequent weakness invariably produced by diarrhoa and dysentary.

From what I have advanced, as well as from the facts of the disease related by Mr. M'Call, and which occur every dry season in this country, I think must appear that the Rinderpest and the disease I have noticed correspond; and as nothing like contagion has produced it in this country, neither can we be satisfied that it is so produced on the Continent, and I believe that it will ultimately be found to arise from causes similar to those prevailing here, and that we have a much safer guarantee against its being brought to this country than either the wholesale slaughter of the cattle, or the cordens drawn round the localities where the disease may have appeared. Instead of merely looking to the means of preventing contagion, we should endeavor to prevent the spread of those general diseases (which I contend are all epizootic) by investigating their causes, and adopting proper means for their prevention or cure. of these cases the simple allowance of a portion of common salt in the food, and sufficient WATER to assist digestion, will be all that is required, and ought to be generally adopted at the season of the year when disease is most apt to occur. Such a plan I recommended in the case of the cattle in Dumfriesshire, already mentioned, and I am informed, with perfect success.

It is a convenient and comparatively easy mode of accounting for almost any general disesse by imputing it to contagion; but the measures taken, in consequence, may be very serious. In this country we have not, as yet, gone the length of destroying animals even suspected of taint, but very inconvenient restrictions were placed on various articles of produce, and, at one time, the farmer was threatenen with an advance on the price of his bonedust in return for an

tive disease among swine, exhibiting many the symptoms of Rinderpest; and because a c responding disease broke out in some places; Scotland, as well might I, on contagion price ples, attribute its introduction to the importion of hams made in Ohio, as suppose that t Rinderpest could be propagated by important the hides, horns, and bones of cattle that be died of it in Germany. Let it not be suppor that this address is dictated by any desire too ticise Professor Simonds' Report. Though-fering on the subject of contagion, I entertain high respect for that gentleman; but I dee my duty not only to direct attention to what my opinion, are the real causes of disease, to allay, so far as in my power, an alarm, founded in itself, and inconvenient, commerciz and otherwise, in its results.

## Experiments on the Growth of Differ Kinds of Flax, &c.

BY JAMES BUCKMAN, F.G.S., F.S.A., ETC.,

Professor of Natural History in the R Agricultural College, Cirencester.

Everything connected with the natural tory of the Flax-plant is so generally inte ing, both in an agricultural and economic; of view, and more especially in the comme relations of this plant to the sister isle, the take this opportunity of laying before our ers a detail of some experiments upon growth of Flax, now in progress in our e. mental garden at the Royal Agricultural We have this season four plots of: each of two and a half yards square, which be described as follows:-

Plot A. Linum usitatissimum, clean see B. Linum usitatissimum, dirty see purposely sown with Dodder cuta epilinum,)

C. Linum perenne, sown in 1855. D. Linum perenne, sown 1858.

A. At the the time of our writing, the is in full perfection, and nearly, if not ripe; it is thirty-four inches in height. e the rows, and apparently of very fine q It is remarkably free from weeds, which be accounted for from the circumstance cleanest possible seed having been used taken altogether, it is the best poss ble i tion of the value of clean seed.

B. This plot is at some distance from order to avoid any possibility of admixtu was sown with the like quantity of seed, t foul state, and besides there was mixed with, purposely, a small quantity of the Cuscuta epilinum, the Dodder previou ported in our columns. In this case but about a quarter of a crop, and n imaginary protection against disease. About a that is so borne down by the Dodder as