rentilation. In Mr. Davidson's byres there | length of the byre. too much, very clearly showing, as I have dy stated, that the disease arises from exre to drafts and currents of air, and to a t of proper ventilation and drainage; and consider these offises are of importance, as trating the cance of the disease, I have reted Mr. Davidson to state in a letter his own unt of the cases, which I subjoin. In this ment it will be observed that there are some 's which would go to prove that the disease been communicated by contagion; but in pinion they have an opposite tendency. It ied that in 1845 he bought a cow in the burgh market, which turned out to have o pneumonia; that after lingering for more six weeks, without his being aware of the e of the case, others became affected, and, sease rapidly spreading through his cows, in weeks thereafter they were all affected. no doubt, at first sight, looks as if the dishad arisen from contagion; but when we der the length of time the disease had exin the byre before any effect had been pro-, and when it is known that the disease addenly increased all over the country at reriod, it will at once be seen that a strong e of doubt is thrown over the subject. again, it will be observed that Mr. Davidor the next three years, had had occasional These he considers to be of spontaneous : but it is evident that others may infer notwithstanding all his precautions, the of the disease had still existed in his byre, at the disease was only arrested by sending nce those cows that became affected. And rain, in 1849-50, another diseased beast troduced into his stock, and the disease time spread so rapidly that he was at induced to try the effect of improved arent of the byrcs, with proper ventilation ainage; but I shall here allow him to give a statement of his case.

EAN PARK, BALERNO, 11th June, 1857.

CSOR DICK.

Sir,-As requested, I proceed to give result of the alterations on my byres. yre originally was 83 feet long, and 244 e, inside measurement, and fitted up for le, having an opening or bole opposite uble trivace or stall for the purposes of ng food, light, and air, to the cows from The byre stood longitudinally about t and south west, having one door in t to the south-east, one in the back to th-west, and one in the end facing the The roof was closely covered with bere was a gangway up the centre of the d the cows stood on each side of it with ads to the wall. From their being so enings in the walls, and none in the s a current of air through the whole proved.

We had no pleura among our cows previously to 1845; but there were frequent colds, and weeds or inflamed udders, occasional attacks of murrain, and that, too, without any traceable infection. And when any sudden and severe change of weather took place there was an immediate falling off in the supply of their milk-this falling off telling, with almost barometric precision, the change in the atmosphere-and all plainly traceable to the cross currents of air through the byre to which the cows were exposed.

About the year 1845 I bought a cow in Edinburgh market, which turned out to be affected with pleuro pneumonia. It was a lingering case, lasting upwards of six weeks without my being aware of the nature of the disease; and at the end of that period the disease attacked one or two of the other cows, and spread so rapidly that, within other three weeks, every cow I had was affected, and the whole either died or were sold off the premises, as I wished the byre thoroughly cleaned before buying in a new stock.

The byre then stood empty some time, was thoroughly cleaned from the roof to the causeway, and repeatedly washed with hot lime, and chloride of lime. And after I thought all danger of infection was removed, a fresh lot of cows was bought in, not in public markets, but privately, and from stocks known to be healthy; but, not-withstanding all our precautions—and we could trace no cause for infection—we had in the course of the next three years ten or twelve separate cases of plena; which, however, never spread among the stock, as the diseased animal was at once sold off on the disease showing itself. These occasional cases of pleura, as well as the frequent colds, and weeded udders, to which the cows were then subject, I attribute entirely to the currents of air to which the cows were then exposed in the byre-together with, perhaps, a predisposal of their systems to this disease—as I knew it was not communicated by infection.

About the year 1849 1 again unfortunately bought a diseased cow, which stood undetected for some considerable time among the rest. Almost every beast I had took the disease, and I lost heavily. After again consulting with you, and trying the effect of a temporary subdivision of the byre by straw partitions as you suggested, I resolved to try the effect of altering and subdividing the byre into four divisions or byres, completely separated from each other by stone partition walls, each byre having one door and one opening window, and the whole being thoroughly ventilated by an opening on each side of the ridge of the roof, and extending the whole length of the roof, through which a constant stream of foul and heated air ascends, and a constant supply of pure and cool air descends, to the manifest comfort of the cattle, and at the re were many cross drafts of air; and same time without exposing them to any cross wind blew strongly from the south-west draughts of air. The drainage was also im-