February 13, 1942

Dear Peture.

Thanks for your letter. The extra degree of freedom from Winches was the comparison between those receiving no tablets and no dranch, which I take to be equivalent treatments. Perhaps, however, no phenothizzine in dranch animals received as sort of imperative beaver tost I had forgotten about.

Table 1 is really Cx^D, i.e., conething proportional to the actual number of eggs expected in the sheep count. I did this for two reasons, first because it seemed a heady way to deal with the lost sheep, and next because in examining agreement with expectation I did not want the lower egg counts to have so much weight compared with high ery counts as a straight analysis of the logarithm would imply.

In view of the very striking results of the worm counts, I should wash out the attempt in this first note to get qualitative indications. The fact is that in so many sheep other species predominate in the egg count that, with our formed experiment, the worm counts are such more decisive on differential effects. I am very glad you have looked at the egg counts specially from this stendpoint, and that they confirm the worm counts, as I have not done this.

If one takes five times the weight difference between the first and last weighings at five intervals apart, three times the difference between the second and fifth, and pace the difference between the third and fourth, one should divide by $5^p + 3^p + 1^r = 35$ for estimating the average increase for interval, or by 7 for the average increase over five intervals. I thought this would make use of repeated weighings better than using the simple difference of first and last relightings; out of course it makes little difference. Anyhow, this is where the 7 in place of a comes from.

apecies to the drup may be the largest factor in orking the remute irregular, both in ear count and in weight; but as ented hasonary experiments so. I don't think the results give saything to growthe at, though there is, of course, a lot about them that I would not like to try to explain. I marine that, if a nation-wide course, were started now with compulsory dranching, it might well produce about 50 tons of mutton on the hoof for every ton of phenothiszine used for the next year or two, which may well be what metters most; but it certainly looks as though this advantage would be accommended by a change in the intestinal found which would make the flocks in a few years time very much less responsive to treatment. The more recalcitrant members of the menageric may be relatively harmless now,

I should nate to think that members of the Committee were under an obligation to understand the statistical inalysis, though of course I feel under an obligation myself to make its results in-

telligible, not only in respect of what they seem to me to indicate, but in respect of the extent to which the arrest flocks have confirmed, or failed to confirm, each others evidence. I do think your worm counts have been most important, but so for I have not any others to compare them with. Tell me if any other points occur to you. By all means send me the data you mention, unless you would rather make the point you ball on them yourself.

Yours sincerely.