April 2, 1942

Dear Dalling,

I am rather puzzled by the comparison of the Cambridge and Weybridge flooks (Inside), for I think you mentioned that these were selected from the same batch of 60 as those at Cambridge, and that you thought at first that the worst-looking sheep of this batch had been sent to you and the better half kept at Cambridge.

I have been comparing my what data we have on these two flocks, and find first for average weight

Cambridge, initially 74.9 lbs finally 67.5

showing an average loss of 7.4 lbs. This loss hee, as 1 previously mentioned, been associated with dosage, and greatly on
the whole in the more heavily dosed sheep. At Weybridge the
initial weight was
80.2 lbs
rising to
83.6

an average gain of 3.4 lbs per sheep, without the association with dosage seen at Cambridge. These weight comparisons suggest that it was the better, rather than the worse, half of the flock that was sent to Weybridge, and that the more heavily infested, if this was the cause of weight difference and difference in increase in weight, were kept at Cambridge.

Comparing the total initial egg counts, one has

	Cambridge	Weybridge
Nematodirus Stronguloides Others	15 2369 3427	2 2395 2102

have had more Nematodirus, Cambridge more of the group of species under "Others", and that Stronguloides was equally distributed between the two halves of the flock. If it is these other species which are really damaging in lamb growth, the initial egg count confirms the weight records in making the Cambridge helf of the flock the more severely affected.

The worm counts, however, are more puzzling. The response to treatment at Weybridge was, on the whole, clear, while that very at Cambridge 1s/obscure and irregular. At zero dosege Weybridge seems to show many more Trichostrongylus axei, which is responsive to the drug, and therefore best estimated at low dosages; but in most species the irregularity seen is gregatent that I can get no clear comparison.

If a selection were made in dividing the flock, I wonder if you could find out on what basis it was made, i.e., general appearance of health, or something more specific and objective.

Yours sincerely,