

1 November 1932.

Professor R. Summerby,
Macdonald College,
Quebec,
Canada.

My dear Prof. Summerby:

I am very glad to hear again how the crop designs are progressing. I think the great thing must be to get a good experiment down at once, without hampering oneself with considering what further information might be wanted later. After all in five years time other land may be available.

The 18 treatment experiment arranged as you suggest should be perfectly sound in principle and easily manageable. Each range makes two blocks of eighteen plots arranged at random. For each crop the analysis goes:

Blocks	1
Treatment	17
Error	18

and you have this for four crops separately. In detail the 17 treatment comparisons can be broken down to

N	1
K	2
P	2
NK	2
NP	2
PK	4
NPK	4

and, of course one can separate the two degrees of freedom for K into $K_2 - K_0$ and $2K_1 - K_0 - K_2$, and all interactions involving K in the same manner. The same can be done with P, if there is any significant effect you want to run down.

Yours sincerely,