FEDERAL FARM BOARD

WASHINGTON, D. C.

April 23, 1930.

Dr. R. A. Fisher, Rothamsted Experimental Station, Harperden, Herps, England.

Dear Dr. Fisher:

Several months ago I wrote asking your advice to make sure that

I was correctly interpreting the new methods you developed in your paper

"The General Sampling Distribution of the Multiple Correlation Coefficient,"

a reprint of which you sent me a year ago. As apparently my letter has

failed to reach you, I am writing again.

The particular point on which I am uncertain is the exact meaning of the parameter n_2 , in entering the table of the 5% points of B and β .

I understand that n_1 represents the number of independent variables; that is, n_1 = 1 is for simple correlation r; n_1 = 2 is for $R_{1.23}$, n_1 = 3 is for $R_{1.234}$, etc. But I have not been able to be quite certain whether n_2 should be taken as the total number of paired observations in the sample $(n^4$, as used in your text book), whether it should be n^4 - 1, or whether n_2 = n^4 - n_1 .

As I would like to make use of this latest development of your methods for judging the reliability of observed multiple correlations in some material which I am about to publish, I am anxious to make exactly the right interpretation of your conclusions. For that reason I would appreciate as early a reply as is convenient for you.

With much appreciation for the pioneer work you have been doing, and for your help, I sm

Sincerely yours,

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Mordecai Ezekiel. Assistant Chief Economist.





