## ROTHAMSTED EXPERIMENTAL STATION HARPENDEN, HERTS

Director: SIR JOHN RUSSELL, D.Sc., F.R.S.

R. A. FISHER, Sc.D. J. WISHART, D.Sc.

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Dear Major Darwin,

After reading through the marked passage in your letter to Whitney, and his explanation of his diagrams, I think there is one point which you have not taken into account . His black columns represent by their height the average score of the class concerned, and not the frequency of that class. Now if such a test was applied to all the children of a group of families it would be absolutely right without correction Again if it were applied to all for the size of the family. of the children whose innate ability exceeded a fixed minimum, it would still be right; (but of course a much less sensitive comparison,) for the chosen sample of the abler groups would still be better on the average than that of the less able groups. as well as being relatively more numerous. great difference in variability between the groups) .

But if the Yale students have been selected from the families in which they were born on account both of ability and of means the effect shown in the diagram is capable of an easy explanation. For parents of small families of lower ability will give their sons an education equal to parents of higher ability who have larger families; and the Yale group is selected not for equal ability of the parents, but for equal education of the children. It is/though you had a salon the hostess of which liked rosts and toliticians. Among those represented there will then be a negative correlation between toutic and political gifts, whether there is any such correlation

in the population at: large or not.

Ecoking cursorily I think this effect will be found all through the book. If I read the table on p. 161 rightly those who rise socially, among the eminent, marry less, are more frequently childless when married, and leave fewer children if not childless. This points to children being an obstacle to the progress of the parent, in addition to its effect upon the prospects of the children. A point I had not sufficiently realised. The marriage rate is important, but I think it only gives about & of the total difference.

Yes. I have Haldane's papers but they are very dull.

I must really find time to read Whitney, as it is full of stimulating material, and I have always felt that the effect of hereditary infertility could be made to appear from such studies; I want much some time to plan a decisive set of observations.

Yours sincerely,

R. A. File

P.S.

I have sent off my letter to the "American Naturalist" having forgottem to wait for your opinion on the last paragraph.

But I should still much like to know it.

Whe that your justing which is much his yel his is retained to imment

pour, while on fully home then?