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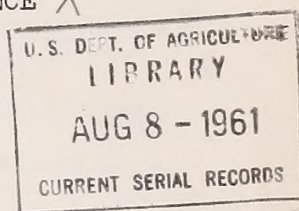
No. 176

March 1961

X AN IBM 704 COMPUTER PROGRAM

FOR COMPUTING BARTLETT'S TEST OF HOMOGENIETY OF VARIANCE X

By
Sharon B. Davidson, Statistical Assistant
and George D. Frazier, Research Forester



A test of homogeneity of variance is necessary before class means can be compared.

Bartlett^{1/} has described a method of testing the significance of difference between two or more sample variances. The details necessary for the calculation of a corrected Chi Square relationship are described in Snedecor.^{2/}

An IBM 704 computer program has been developed at the Pacific Southwest Forest and Range Experiment Station ^{3/} using the procedure described by Snedecor. This program computes a corrected Chi Square for "n" samples with either equal or unequal sample sizes.

A copy of the program deck, a sample output listing, operating instructions, and input card format can be obtained by writing to the:

Director
Pacific Southwest Forest and Range Experiment Station
P. O. Box 245
Berkeley 1, California.

^{1/} M. S. Bartlett, "Supplement to the Journal of the Royal Statistical Society," 4: 137, 1937.

^{2/} George W. Snedecor, Statistical Methods, 5th Ed.; 2nd printing; The Iowa State College Press, Ames, 1957, pp. 285-289.

^{3/} The University of California Computer Center provided time on the IBM 704 for compiling and debugging this program.

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