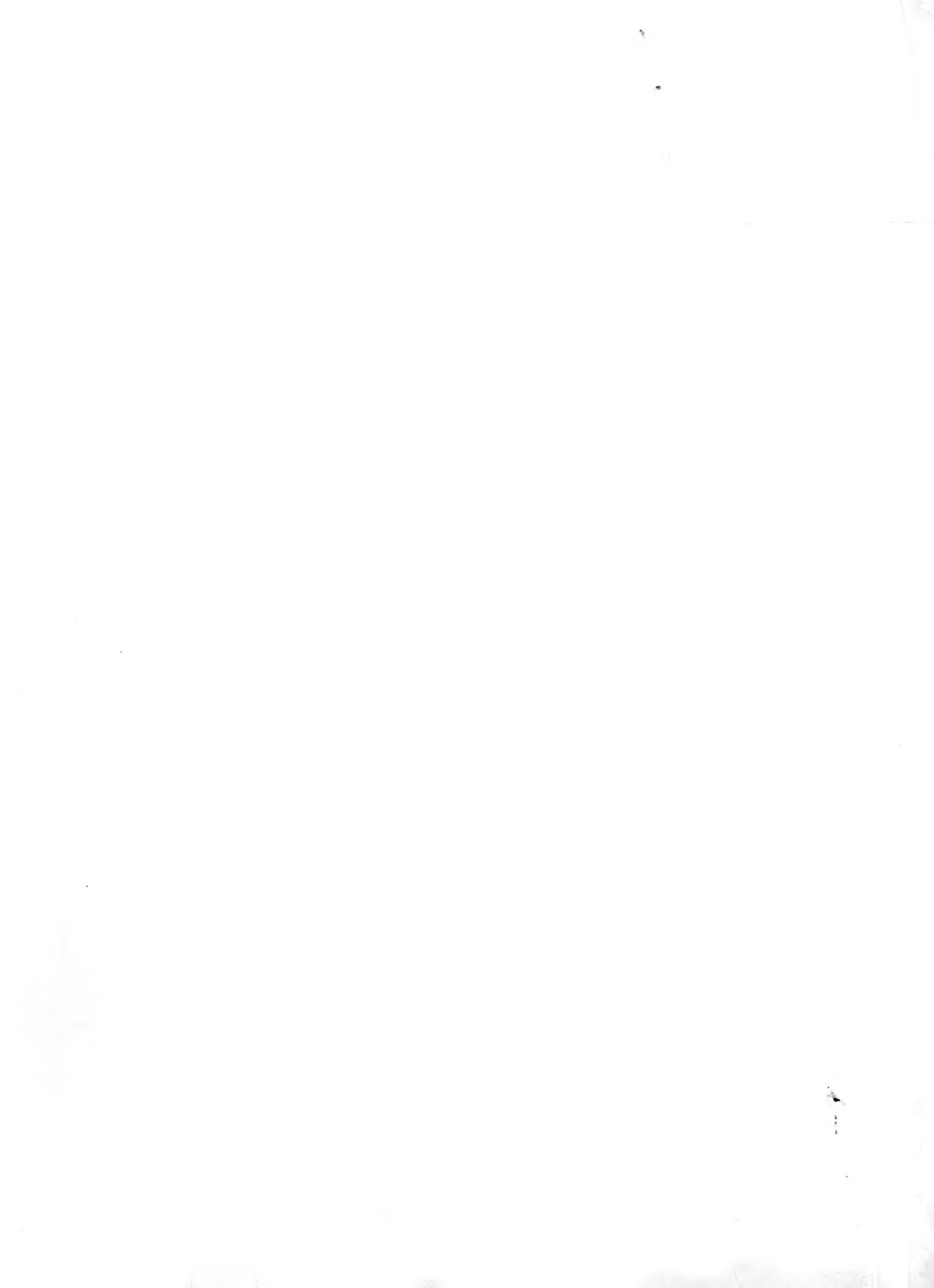


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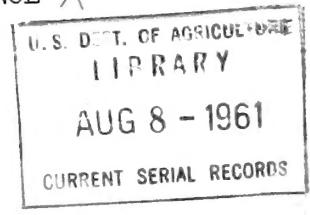
No. 176

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<sup>1/</sup> 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.<sup>2/</sup>

An IBM 704 computer program has been developed at the Pacific Southwest Forest and Range Experiment Station <sup>3/</sup> 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.

<sup>1/</sup> M. S. Bartlett, "Supplement to the Journal of the Royal Statistical Society," 4: 137, 1937.  
<sup>2/</sup> George W. Snedecor, Statistical Methods, 5th Ed.; 2nd printing; The Iowa State College Press, Ames, 1957, pp. 285-289.  
<sup>3/</sup> The University of California Computer Center provided time on the IBM 704 for compiling and debugging this program.

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