

Controlled Sampling Plans

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ABSTRACT

[4] considered sampling plans for which the second order inclusion probabilities are zero for pairs of contiguous units and constant for pairs of non-contiguous units. The practical motivation for the use of such plans is pointed out and a statistical condition is identified under which these plans are more efficient than the corresponding simple random sampling plans. Results on the existence and construction of these plans are also obtained.

Key Words : contiguous units; unbiased estimation; probability; random sampling