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Variance estimation using linear combination of Research Paper non-conventional measures, quartile average and deciles mean ■ M.A. BHAT, S. MAQBOOL AND S. A. MIR See end of the paper for ABSTRACT : Use of auxiliary information in survey sampling plays important role in getting more authors' affiliations precision for estimating population parameters. Thus it has now become indispensable to use auxiliary Correspondence to : information, thus in this paper we propose new modified ratio estimators by using the auxiliary M. A. BHAT information of non conventional location measures, non conventional measures of dispersion, quartile Division of Agricultural average, decile mean and their linear combinations for estimating population variance. The properties Statistics, SKUAST, associated with proposed estimators are assessed by mean square error, bias and compared with KASHMIR (J&K) INDIA Email : mabhat.1500@ existing estimators. By this comparison we conclude that our proposed estimators are more efficient gmail.com than the existing estimators. To support the theoretical results, numerical study is provided. KEY WORDS : Simple random sampling, Bias, Mean square error, Downtown's method, Deciles, Efficiency **Paper History** : How To CITE THIS PAPER: Bhat, M.A., Maqbool, S. and Mir, S.A. (2017). Variance estimation using linear **Received** : 19.05.2017; combination of non-conventional measures, quartile average and deciles mean. Internat. Res. J. Agric. Eco. & **Revised** : 21.08.2017; Accepted : 28.08.2017 Stat., 8 (2): 431-434, DOI: 10.15740/HAS/IRJAES/8.2/431-434.