

ABSTRACT

In this thesis, the Probability Weighted Moments, L-Moments of Truncated Weibull distributions and L-Moment estimators of standardized and two parameter Left-truncated Weibull distribution are derived.

Chapter 1, comprises the introduction of Probability Weighted Moments, L-Moments, Weibull distribution, and Truncated Weibull distribution along with their application. Review of the transcendental functions and objective of the study is also given at the end.

Chapter 2, provides a brief literature review of Probability Weighted Moments, L-Moments, Weibull distribution, and Truncated Weibull distributions.

In Chapter 3 the Probability Weighted Moments and L-Moments of Left-Truncated, Right-Truncated and Doubly Truncated Weibull distributions have been derived. In addition, the L-Moments estimators of standardized Left-truncated (i.e. shape parameter) and two parameters Left-truncated Weibull distributions (i.e. shape and scale parameters) are also derived.

In Chapter 4, the L-Moments estimates of the shape parameter of standardized Left-Truncated Weibull distribution have been estimated. Conclusions and recommendations are also given in this chapter.