

A Double Acceptance Sampling Plan for Truncated Life Test Having Exponentiated Transmuted Weibull Distribution

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Abstract : The main purpose of this paper is to design a double acceptance sampling plan under the time truncated life test when the product lifetime follows an exponentiated transmuted Weibull distribution. Here, the motive is to meet both the consumer's risk and producer's risk simultaneously at the specified quality levels, while the termination time is specified. A comparison between the results of the double and single acceptance sampling plans is conducted. We demonstrate the applicability of our results to real data sets.

Keywords : double sampling plan, single sampling plan, producer's risk, consumer's risk, exponentiated transmuted weibull distribution, time truncated experiment, single, double, Marshal-Olkin

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