

1135-VT-2899 **Gokarna R Aryal***, aryalg@pnw.edu. *Characterizations of Beta Exponential Pareto Distribution with Applications*. Preliminary report.

In this study we develop the so-called beta exponential Pareto (BEP) distribution by using the composition of the beta distribution and exponential Pareto distribution. Several lifetime distributions including the beta Weibull, beta exponential, beta Rayleigh, generalized Weibull, Weibull among others are embedded in the proposed distribution. Various mathematical properties along with parameter estimation and simulation issues are discussed. The importance and flexibility of the proposed model is illustrated by means of real data analysis (Received September 26, 2017)