Appendix 3.8: Good Estimators of α and ß^2

A lognormal distribution has two parameters associated with it: α and ß^2. Minimum unbiased estimators for these parameters are given in Aitchison and Brown (1966) as:

$$\alpha = e^{\bar{y}} \psi_n(\tfrac{1}{2} v_y^2)$$

and

$$\beta^2 = e^{2\bar{y}} [\Psi_n(2v_y^2) - \Psi_n(\tfrac{n-2}{n-1} v_y^2)]$$