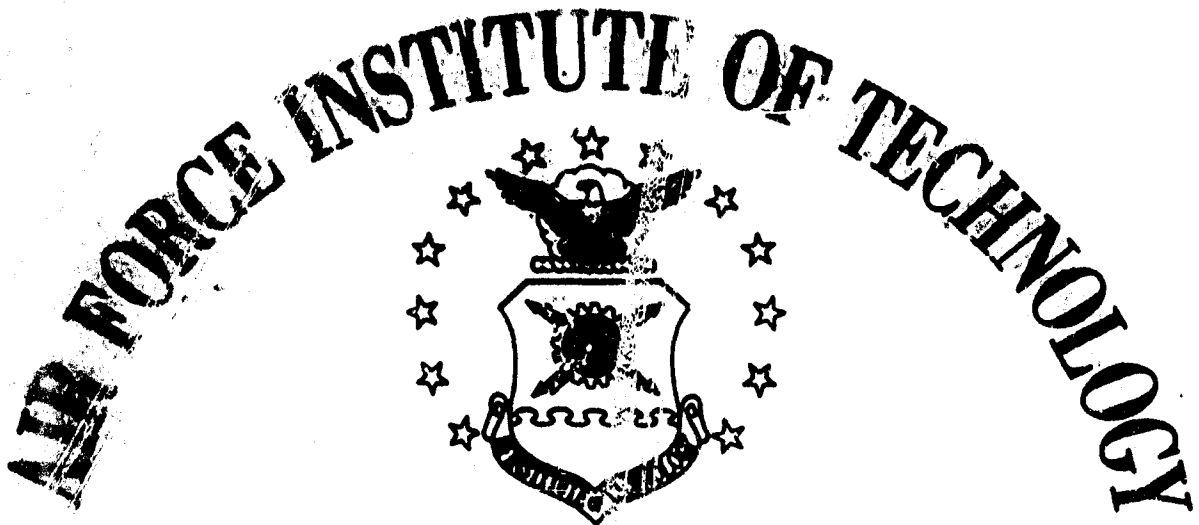
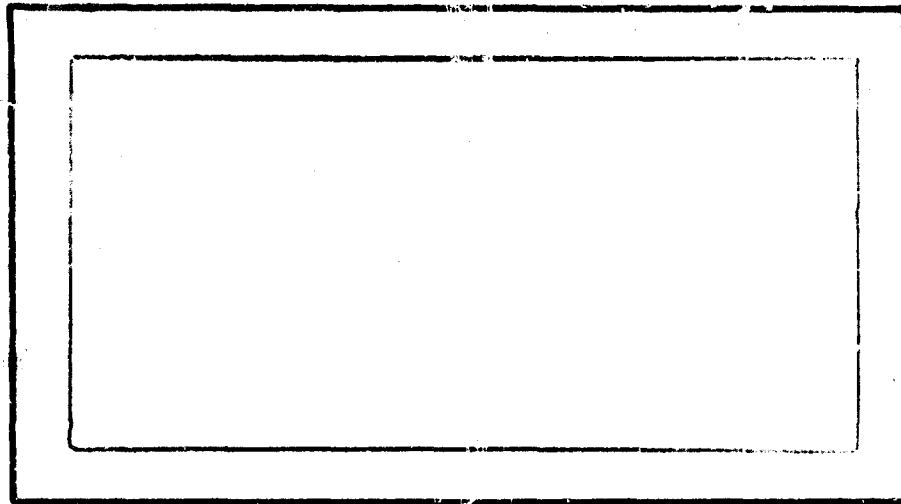


AD 684 696



AIR UNIVERSITY  
UNITED STATES AIR FORCE



SCHOOL OF ENGINEERING

WRIGHT-PATTERSON AIR FORCE BASE, OHIO

Best Available Copy

AD 684 696-100 00 00

Reproduced by the  
CLEARINGHOUSE  
for Federal Scientific & Technical  
Information Springfield Va. 22151

DDC  
APR 7 1969  
B

62

LEAST-SQUARES CONDITIONAL  
ESTIMATION OF THE LOCATION PARAMETER  
OF WEIBULL POPULATIONS

THESIS

GAW/MATH/68-1 William J. Herman  
Captain USAF

This document has been approved  
for public release and sale; its  
distribution is unlimited.

GAW/MATH/68-1

LEAST-SQUARES CONDITIONAL  
ESTIMATION OF THE LOCATION PARAMETER  
OF WEIBULL POPULATIONS

THESIS

Presented to the Faculty of the School of Engineering of  
the Air Force Institute of Technology  
Air University  
in Partial Fulfillment of the  
Requirements for the Degree of  
Master of Science

by

William J. Herman, B.S.A.E.

Captain                      USAF

Graduate Air Weapons

June 1968

This document has been approved  
for public release and sale; its  
distribution is unlimited.

Preface

This thesis represents one in a series of theses on the estimation of Weibull location and scale parameters. The primary objective was to tabulate coefficients for a conditional estimator for the location parameter. However, it was found that by including the coefficients for the scale parameter estimator, one could eliminate the need for reference to previously compiled tables for simultaneous estimators.

The estimation technique, while applied only to the Weibull distribution here, is presented in general form and can easily be applied to many continuous density functions. The theoretical development is presented in complete detail.

I would like to express my indebtedness to my thesis advisor and sponsor, Professor Albert H. Moore, for his guidance and encouragement in both the formulation and solution of the estimation problem. His insight into the concepts involved enabled me to present a clear, thorough development of the estimation technique.

Contents

	Page
Preface . . . . .	11
Abstract . . . . .	12
I. Introduction . . . . .	1
Background . . . . .	1
Purpose . . . . .	2
Definitions and Assumptions . . . . .	3
Definitions . . . . .	3
Assumptions . . . . .	4
II. The Weibull Distribution . . . . .	6
Weibull Moments . . . . .	6
III. Order Statistics . . . . .	10
Distributions of Order Statistics . . . . .	10
Weibull Order Statistics . . . . .	11
Moments of the Weibull Order Statistics . . . . .	14
IV. Method of Least-Squares . . . . .	16
Simultaneous Estimators . . . . .	18
Conditional Estimators . . . . .	24
Simultaneous Estimators from the Conditional Estimators . . . . .	27
V. Tabulation of the Estimation Coefficients . . . . .	28
Method of Tabulation . . . . .	28
Use of the Tables . . . . .	29
Format of the Tables . . . . .	29
Computational Procedure . . . . .	30
Sample Calculation . . . . .	31
Simultaneous Estimators . . . . .	32
Accuracy of the Tables . . . . .	34
VI. Summary and Conclusions . . . . .	36
Summary . . . . .	36
Conclusions . . . . .	37
Bibliography . . . . .	38
Appendix A: Tables for Sample Sizes 2 to 10 . . . . .	40
Appendix B: Tables for Sample Sizes 11 to 13 . . . . .	Supplementary Volume

Abstract

In recent years much attention has been given to the use of order statistics in the estimation of parameters of continuous probability density functions. In this thesis the method of least-squares is used to find minimum-variance, linear, unbiased, conditional estimators for the location and scale parameters of the Weibull probability density function, based on selected order statistics. The shape parameter is assumed to be known. The equations for the estimators are derived in detail. It is shown that the least-squares simultaneous estimators can be obtained directly from the tabled coefficients for the pair of conditional estimators. The results are presented as a table of coefficients to be used in a linear combination of  $l$  order statistics selected from the  $m$  smallest values of an ordered sample of size  $n$ . The coefficients were tabulated for the estimator with the smallest variance for specified values of  $l$ ,  $m$ ,  $n$ , and shape parameter. Tables are provided for sample sizes  $n = 2$  to 13 and for eleven values of shape parameter: 0.5(0.25)2.0(0.5)4.0.

LEAST-SQUARES CONDITIONAL  
ESTIMATION OF THE LOCATION PARAMETER  
OF WEIBULL POPULATIONS

1. Introduction

Background

Works on order statistics date back as far as the eighteenth century. One of the earliest works in modern times was written by Pearson in 1902 (Ref 10). More recently Wilks made an important contribution by assembling much of the theory of order statistics in one place (Ref 13). However, much work on the use of order statistics has been accomplished through the efforts of Professor A. H. Moore of the Air Force Institute of Technology (AFIT) and Dr. H. L. Harter of the U. S. Air Force Aerospace Research Laboratory. The present work is one in a series of studies by AFIT thesis students based on the use of order statistics in the estimation of the parameters of important probability distributions.

There are two important reasons for using order statistics in parameter estimation. First, in many estimation problems, such as life testing of industrial products, the data naturally occur in ordered form. Note that order here is taken to mean order in size rather than order of occurrence. The natural order in life testing refers to the fact that the smallest failure time occurs first. The second reason for the use of order statistics in estimation is that the methods apply to censored samples as well as uncensored samples.

The distribution of interest in this work is that developed by Weibull to predict the fatigue life of solid materials (Refs 4, 16). Weibull has also pointed out that his distribution fits such diversified distributions as the yield strength in a Bofors steel, the size of fly ash, the fiber strength of Indian cotton, and the breadth of beans of *Phaseolus Vulgaris* (Ref 15:296). More recently the Weibull distribution has been applied to the analysis of failure data in the electronic components (Ref 1:16).

In analyses of failure of mechanical and electronic parts the guaranteed life is represented by the location parameter of the Weibull distribution. Thus, an estimate of the location parameter, in some applications, is an estimate of the guaranteed life of the component.

#### Purpose

The three parameter Weibull probability density function (pdf) is given by

$$f(x) = \begin{cases} \frac{k}{\theta} \left( \frac{x-c}{\theta} \right)^{k-1} e^{-\left( \frac{x-c}{\theta} \right)^k} & x \geq c \\ 0 & x < c \end{cases} \quad (1)$$

where  $c$  is the location parameter,  $\theta$  is the scale or dispersion parameter, and  $k$  is the shape parameter.

The purpose of this thesis was to tabulate coefficients for a least-squares linear, unbiased, conditional estimator of the location parameter of the Weibull pdf by the use of selected order statistics. The estimator is conditioned on the knowledge of the scale parameter.



$\hat{C}$ , and the shape parameter  $K$ . The estimator is linear in that it is of the form

$$\hat{C} = \sum_{i=1}^n k_i \lambda_i$$

where  $\hat{C}$  is an estimator for the location parameter  $C$ ; the  $\lambda_i$  are the ordered sample values (order statistics); and the  $k_i$  are the tabulated coefficients. The summation is taken over the selected sample values, as defined below.

The prime advantage to the use of the method of least-squares in estimating Weibull parameters is that it leads to an unbiased estimator. Harter and Moore (Refs 8, 9, and 10) and Cohen (Ref 3) have developed maximum-likelihood estimators for the parameters of Weibull populations. Some earlier works in this area are cited by Harter and Moore (Ref 10). However, these estimators are biased, and, in some cases are computationally more complicated than the least-squares linear, unbiased estimators. Thus, in applications where unbiasedness or simplicity are overriding considerations, the least-squares estimators are more desirable than the maximum-likelihood estimators, even though the former may have a larger mean square error.

#### Definitions and Assumptions

Before proceeding further, some definitions and limitations are in order.

Definitions. To understand the concept of order statistics, consider a random sample of size  $n$  from a continuous population. Let the samples be ordered according to size from the smallest to

the largest, and denote the ordered samples  $U_1, U_2, \dots, U_n$ . The  $r^{\text{th}}$  smallest value,  $U_r$ , is called the  $r^{\text{th}}$  order statistic. It is a true statistic and has a density function which is, in general, different from that of the parent population. The distributions of the order statistics are derived in Section III.

Estimators can be based on the entire ordered sample or on some part of the sample. Estimators based on the entire sample are referred to in this paper as  $n$ -order-statistic estimators; those based on a censored sample are called  $m$ -order-statistic estimators. For the purposes of this paper, a censored sample is the subset of the smallest  $m$  sample values out of the  $n$  values. An estimator based on some  $l$  values from a censored sample of size  $m$  ( $l \leq m \leq n$ ) is said to be based on selected order statistics. It is alternatively referred to as an  $l$ -order-statistic estimator.

Censored samples occur frequently in life testing since length of time or unit cost can make testing until all items on test have failed too expensive. The advantage in the use of selected order statistics for estimation is that a small number of appropriately selected samples may yield an estimator only slightly less efficient than one based on the entire censored sample.

Assumptions. The underlying assumption in this thesis is that it is known, either from prior experience or theoretical considerations, that the Weibull pdf adequately models the population under consideration. As pointed out above, there are many cases in which it is known that the Weibull pdf is applicable, so that this assumption is not too restrictive. It is further assumed that the scale and shape parameters are known. Previous AFIT theses have considered the

problems of estimating  $C$  and  $\Theta$  simultaneously (Ref 13), and of estimating  $\Theta$  with  $C$  known (Ref 2). If  $K$  is not known, there are techniques for estimating it (Ref 6).

The coefficients for the conditional estimation of  $\Theta$  were recalculated because it was found that knowledge of the conditional estimators for  $C$  and  $\Theta$  makes tabulation of simultaneous estimation coefficients unnecessary (see Section IV).

The thesis was limited to samples of size  $n = 2$  to 13 and to eleven values of shape parameter,  $K : 0.5(0.25)2.0(0.5)4.0$ . (This notation means from 0.5 to 2.0 in steps of 0.25 and from 2.0 to 4.0 in steps of 0.5).

The remainder of the thesis is devoted to a discussion of the Weibull pdf; the development of the distributions of order statistics; the derivation of the least-squares estimators for the location and scale parameters; and, finally a description of the use of the tables. Appendix A in this volume contains tables of the coefficients of estimation of  $C$  and  $\Theta$  for sample sizes 2 to 10; Appendix B, in the Supplementary Volume, contains tables of the coefficients of estimation for sample sizes 11 to 13.

## II. The Weibull Distribution

The Weibull pdf, given by Eq(1) is repeated below:

$$f(x) = \begin{cases} \frac{K}{\Theta} \left(\frac{x-c}{\Theta}\right)^{K-1} e^{-\left(\frac{x-c}{\Theta}\right)^K} & x \geq c \\ 0 & x < c \end{cases} \quad (1)$$

where  $C$  is the location parameter,  $\Theta$  is the scale parameter, and  $K$  is the shape parameter. The Weibull cumulative distribution function (cdf) is given by

$$F(x) = \begin{cases} 1 - e^{-\left(\frac{x-c}{\Theta}\right)^K} & x \geq c \\ 0 & x < c \end{cases} \quad (2)$$

### Weibull Moments

The  $r^{\text{th}}$  moment about the origin of a probability density function is defined by the relation

$$E(X^r) = \int_{-\infty}^{\infty} x^r f(x) dx \quad (3)$$

where the function  $E[g(x)]$  is the expected value of the function  $g(x)$ . Here an upper case letter refers to a random variable and a lower case letter refers to the value of the random variable.

The Weibull moments from Eq(3) are

$$E(X^r) = \int_c^{\infty} x^r \frac{K}{\theta} \left(\frac{x-c}{\theta}\right)^{K-1} e^{-\left(\frac{x-c}{\theta}\right)^K} dx \quad (4)$$

In evaluating the integral of Eq(4) it is easier to work with the new random variable  $Z = (X-C)/\theta$ . Then  $X = \theta Z + C$ , and the  $r^{\text{th}}$  moment of  $X$  is given by

$$E(X^r) = E[(\theta Z + C)^r] \quad (5)$$

For a particular value of  $r$ , the expression  $(\theta Z + C)^r$  can be expanded by the binomial theorem. If the moments of  $Z$  are known,  $E(X^r)$  then easily found with the aid of the relations

$$E(K) = K \text{ if } K = \text{const} \quad (6)$$

and 
$$E[(\theta Z)^r] = \theta^r E(Z^r) \quad (7)$$

The pdf of  $Z$  is given by (Ref 5:132):

$$f(z) = f(x) \left| \frac{dx}{dz} \right| \quad (8)$$

From Eq(1),  $f(z)$  is found to be

$$f(z) = \begin{cases} K z^{K-1} e^{-z^K} & z \geq 0 \\ 0 & z < 0 \end{cases} \quad (9)$$

Now from Eq(3):

$$E(Z^r) = \int_0^{\infty} k z^{k-1+r} e^{-z^k} dz \quad (10)$$

To evaluate this integral, let  $w = z^k$ . Then  $z = w^{\frac{1}{k}}$  and  $dz = \frac{1}{k} w^{\frac{1}{k}-1} dw$ ; Eq(10) becomes

$$E(Z^r) = \int_0^{\infty} w^{(1+r/k)-1} e^{-w} dw \quad (11)$$

This integral can be recognized as the gamma function, so that:

$$E(Z^r) = \Gamma\left(1 + \frac{r}{k}\right) \quad (12)$$

The expected value or mean of the Weibull pdf is now seen to be

$$E(X) = C + \theta E(Z)$$

or

$$E(X) = C + \theta \Gamma\left(1 + \frac{1}{k}\right) \quad (13)$$

The variance is defined as

$$\text{Var}(X) = E[(X - \mu)^2] \quad (14)$$

where  $\mu = E(X)$ .

It can be shown (Ref 5:95) that the variance is also given by

$$\text{Var}(X) = E(X^2) - \mu^2 \quad (15)$$

With the aid of Eq(7) we find that the Weibull variance is expressed

GAW/MATH/66-1

by

$$\text{Var}(\bar{X}) = \theta^2 \text{Var}(\bar{Z}) = \theta^2 \left[ \Gamma\left(1 + \frac{2}{k}\right) - \Gamma^2\left(1 + \frac{1}{k}\right) \right] \quad (16)$$

The higher moments are found in a similar manner.

III. Order Statistics

Let  $X_1, X_2, \dots, X_n$  be a random sample of size  $n$  from a continuous distribution with pdf  $f(x)$  and cdf  $F(x)$ . If these samples are arranged in order of increasing magnitude, and denoted  $U_1, U_2, \dots, U_{n-1}, U_n$ , then the  $r^{\text{th}}$  smallest value,  $U_r$ , is called the  $r^{\text{th}}$  order statistic. In this section, the distributions of the order statistics are derived in a general form. The distributions of the Weibull order statistics and some of their moments are derived from these general expressions.

Distributions of Order Statistics

Let the real line be divided into three parts:  $-\infty$  to  $U_r$ ,  $U_r$  to  $U_r + \epsilon$ , and  $U_r + \epsilon$  to  $+\infty$ . For a sample of size  $n$ , the probability that  $r-1$  values fall in the first interval, one falls in the second, and  $n-r$  fall in the third is given by the multinomial law as

$$\frac{n!}{(n-r)!(r-1)!} \left[ \int_{-\infty}^{U_r} f(x) dx \right]^{r-1} \int_{U_r}^{U_r + \epsilon} f(x) dx \left[ \int_{U_r + \epsilon}^{\infty} f(x) dx \right]^{n-r} \quad (17)$$

According to the law of the mean, there exists a  $\xi$  such that

$$\int_{U_r}^{U_r + \epsilon} f(x) dx = f(\xi) \epsilon \quad \text{if } U_r \leq \xi \leq U_r + \epsilon \quad (18)$$

Then in the limit as  $\epsilon \rightarrow 0$ , the probability density function of

$U_r$ , the  $r^{\text{th}}$  order statistic becomes (Ref 5:205):



$$g(u_r) = \frac{n!}{(n-r)!(r-1)!} \left[ \int_{-\infty}^{u_r} f(x) dx \right]^{r-1} f(u_r) \left[ \int_{u_r}^{\infty} f(x) dx \right]^{n-r}, \quad -\infty < u_r < \infty \quad (19)$$

In terms of the cumulative density function,  $F(x)$  :

$$g(u_r) = \frac{n!}{(n-r)!(r-1)!} \left[ F(u_r) \right]^{r-1} f(u_r) \left[ 1 - F(u_r) \right]^{n-r}, \quad -\infty < u_r < \infty \quad (20)$$

A similar procedure leads to the following expression for the joint distribution of  $U_r$  and  $U_s$ ,  $r < s$  :

$$g(u_r, u_s) = \frac{n!}{(r-1)!(s-r-1)!(n-s)!} \left[ F(u_r) \right]^{r-1} \left[ F(u_s) - F(u_r) \right]^{s-r-1} \cdot \left[ 1 - F(u_s) \right]^{n-s} f(u_r) f(u_s), \quad -\infty < u_r < u_s < \infty \quad (21)$$

### Weibull Order Statistics

The Weibull cdf and pdf can now be substituted into Eq(20) to give an expression for the distributions of the Weibull order statistics. Eqs(1) and (2) give the Weibull pdf and cdf as

$$f(x) = \begin{cases} \frac{K}{\theta} \left( \frac{x-C}{\theta} \right)^{K-1} e^{-\left( \frac{x-C}{\theta} \right)^K} & x \geq C \\ 0 & x < C \end{cases} \quad (1)$$

$$F(x) = \begin{cases} 1 - e^{-\left(\frac{x-c}{\theta}\right)^k} & x \geq c \\ 0 & x < c \end{cases} \quad (2)$$

Eq(20) for the Weibull pdf now becomes:

$$g(u_r) = \frac{n!}{(r-1)!(n-r)!} \left[ 1 - e^{-\left(\frac{u_r-c}{\theta}\right)^k} \right]^{r-1} \left[ e^{-\left(\frac{u_r-c}{\theta}\right)^k} \right]^{n-r} \cdot \frac{k}{\theta} \left(\frac{u_r-c}{\theta}\right)^{k-1} e^{-\left(\frac{u_r-c}{\theta}\right)^k}, \quad 0 \leq c < u_r < \infty \quad (22)$$

The joint density is

$$g(u_r, u_s) = \frac{n!}{(r-1)!(s-r-1)!(n-s)!} \left[ 1 - e^{-\left(\frac{u_r-c}{\theta}\right)^k} \right]^{r-1} \cdot \left[ e^{-\left(\frac{u_r-c}{\theta}\right)^k} - e^{-\left(\frac{u_s-c}{\theta}\right)^k} \right]^{s-r-1} \left[ e^{-\left(\frac{u_s-c}{\theta}\right)^k} \right]^{n-s} \cdot \left(\frac{k}{\theta}\right)^2 \left(\frac{u_r-c}{\theta}\right)^{k-1} \left(\frac{u_s-c}{\theta}\right)^{k-1} \exp\left\{-\left[\left(\frac{u_r-c}{\theta}\right)^k + \left(\frac{u_s-c}{\theta}\right)^k\right]\right\}, \quad 0 \leq u_r < u_s < \infty \quad (23)$$

So far, the distributions of the Weibull order statistics have been derived using the three parameter Weibull pdf. In the parameter estimation technique discussed in the following section, use is made of standardized order statistics. Therefore the remainder of the derivations in this section will be limited to the distributions and moments of the standardized order statistics. It should be noted

that there is no loss of generality in this technique.

If the substitution  $Z = (X-C)/\theta$  is made in the Weibull pdf, the resulting density function is Weibull with  $C=0$  and  $\theta=1$ . From Eq(9):

$$f(z) = k z^{k-1} e^{-z^k} \quad z \geq 0 \quad (9)$$

where the parameter  $k$  is assumed known. The cdf is now given by

$$F(z) = \begin{cases} 1 - e^{-z^k} & z \geq 0 \\ 0 & z < 0 \end{cases} \quad (24)$$

Eq(20) and (21) can be expressed in terms of ordered samples from a random sample of the standardised variate  $Z$  :

$$g(t_r) = B_1 (1 - e^{-t_r^k})^{r-1} (e^{-t_r^k})^{n-r} k t_r^{k-1} e^{-t_r^k}, \quad 0 < t_r < \infty \quad (25)$$

$$g(t_r, t_s) = B_2 (1 - e^{-t_r^k})^{r-1} (e^{-t_r^k} - e^{-t_s^k})^{s-r-1} (e^{-t_s^k})^{n-s} k^2 (t_r t_s)^{k-1} e^{-(t_r^k + t_s^k)}, \quad 0 < t_r < t_s < \infty \quad (26)$$

where  $t_r$  and  $t_s$  are ordered on  $Z$ , and  $B_1$  and  $B_2$  are constants given by

$$B_1 = \frac{n!}{(r-1)!(n-r)!} \quad (27)$$

$$B_2 = \frac{n!}{(r-1)!(s-r-1)!(n-s)!} \quad (28)$$

Finally, by applying the binomial theorem, Eqs(25) and (26) can be simplified:

$$g(t_r) = B_1 K t_r^{n-1} \left[ \sum_{i=0}^{r-1} \binom{r-1}{i} (-1)^{i+r-1} e^{-t_r^k(n-i)} \right], 0 < t_r < \infty \quad (29)$$

$$g(t_r, t_s) = B_2 K^2 (t_r t_s)^{n-1} \left[ \sum_{i=0}^{r-1} \sum_{j=0}^{s-r-1} (-1)^{i+j} \binom{r-1}{i} \binom{s-r-1}{j} \right. \\ \left. \cdot e^{-t_r^k(s-r+i-j)} e^{-t_s^k(n-s+j+1)} \right], 0 < t_r < t_s < \infty \quad (30)$$

#### Moments of the Weibull Order Statistics

The moments of the standardised Weibull order statistics of interest in this thesis are the mean and variance of the  $r^{\text{th}}$  order statistic, and the covariance of the  $r^{\text{th}}$  and  $s^{\text{th}}$  order statistics.

The  $m^{\text{th}}$  moments about the origin of the standardised order statistics are given by

$$E(T_r^m) = \int_0^{\infty} t_r^m g(t_r) dt_r \quad (31)$$

Substitution of the expression in Eq(29) for  $g(t_r)$  results in the following:

$$E(T_r^m) = B_1 K \int_0^{\infty} t_r^m t_r^{k-1} \left[ \sum_{i=0}^{r-1} \binom{r-1}{i} (-1)^{i+r-1} e^{-t_r^k(n-i)} \right] dt_r \quad (32)$$

When the integration is performed and the resulting expression is simplified, the expression for the  $m^{\text{th}}$  moment is reduced to:

$$E(T_r^m) = B_1 \Gamma\left(1 + \frac{m}{k}\right) \left[ \sum_{i=0}^{r-1} \binom{r-1}{i} (-1)^{i+r-1} (n-i)^{-\left(1 + \frac{m}{k}\right)} \right] \quad (33)$$

The mean and variance of the Weibull order statistics are found from Eq(33) to be

$$E(T_r) = B_1 \Gamma\left(1 + \frac{1}{k}\right) \left[ \sum_{i=0}^{r-1} \binom{r-1}{i} (-1)^{i+r-1} (n-i)^{-\left(1 + \frac{1}{k}\right)} \right] \quad (34)$$

$$\text{and } \text{Var}(T_r) = B_1 \Gamma\left(1 + \frac{2}{k}\right) \left[ \sum_{i=0}^{r-1} \binom{r-1}{i} (-1)^{i+r-1} (n-i)^{-\left(1 + \frac{2}{k}\right)} \right] - [E(T_r)]^2 \quad (35)$$

The derivation of the covariance of the  $r^{\text{th}}$  and  $S^{\text{th}}$  order

statistic is more complicated than the above moments. The covariance is given by the expression

$$\text{Cov}(T_r, T_s) = E(T_r T_s) - E(T_r) E(T_s) \quad (36)$$

where

$$E(T_r T_s) = \int_{-\infty}^{\infty} \int_{-\infty}^{t_s} t_r t_s g(t_r, t_s) dt_r dt_s$$

In terms of the joint distribution  $g(t_r, t_s)$  derived above, this expression becomes

$$E(T_r T_s) = B_2 K^2 \left[ \sum_{i=0}^{r-1} \sum_{j=0}^{s-r-1} (-1)^{i+j} \binom{r-1}{i} \binom{s-r-1}{j} \int_0^{\infty} \int_0^{t_s} t_r^K e^{-t_r^K (s-r+i-j)} t_s^K e^{-t_s^K (n-s+j+1)} dt_r dt_s \right] \quad (37)$$

The solution to this integral is given by Lieblein (Ref 11:332) as:

$$E(T_r T_s) = B_2 K^2 \sum_{i=0}^{r-1} \sum_{j=0}^{s-r-1} (-1)^{i+j} \binom{r-1}{i} \binom{s-r-1}{j} \Psi(s-r+i-j, n-s+j+1) \quad (38)$$

where  $B_2$  is the same as the constant in Eq(26). The function  $\Psi(\mu, \nu)$  is given by

$$\Psi(\mu, \nu) = K^{-2} (\mu \nu)^{1 + \frac{1}{K}} \Gamma\left(2 + \frac{2}{K}\right) B_p\left(1 + \frac{1}{K}, 1 + \frac{1}{K}\right) \quad (39)$$

where

$$p = \frac{\mu}{\mu+2}$$

and  $B_p$  is the incomplete Beta function.

Values for  $E(\bar{T}_r)$  ,  $\text{Var}(\bar{T}_r)$  , and  $\text{Cov}(\bar{T}_r, \bar{T}_s)$  have been computed by Clark (Ref 2) and improved upon by Musson (Ref 13) for sample sizes of  $n = 2$  to 15. The computed values were used to compute the estimators derived in the next section.

IV. Method of Least-Squares

In this section the method of least-squares estimation for the location and scale parameter of a continuous distribution as presented by Lloyd (Ref 12:20) is developed. The objective of this paper was to table coefficients for a linear, unbiased, conditional estimator for the location parameter. However, it is interesting to use the method of least-squares to first develop simultaneous estimators for the location and scale parameters, and, then to proceed to the development of conditional estimators for both parameters. It is shown that the simultaneous estimators can be obtained from the pair of conditional estimators. The significance of this result is that it is not necessary to table coefficients for both simultaneous and conditional estimators; only the coefficients for the conditional case are needed to get both the conditional and simultaneous estimators. Finally, it is shown that the estimators are unbiased; and the Gauss-Markhoff theorem (Ref 7:260) guarantees that in the class of unbiased, linear estimators, the least-squares estimator has minimum variance.

Simultaneous Estimators

Consider the three parameter Weibull density given by Eq(1) with  $K$  known. Let  $X_1, X_2, \dots, X_n$  be a random sample of size  $n$  from a Weibull population. Let  $U_1, U_2, \dots, U_n$  denote the sample values after ordering, so that  $U_1 \leq U_2 \leq \dots \leq U_n$ . (Since the density function under consideration is continuous, the equality signs may be dropped). If the substitution  $Z = (X-C)/\theta$  is made, the pdf of the random variable  $Z$  will be parameter free, as



shown in Eq(9). Now, if  $t_r = (u_r - c)/\theta$ , the values  $t_r$  are ordered samples from the distribution of  $Z$ . Before proceeding further, some definitions are made.

Let

$$\begin{aligned}\alpha_r &= E(T_r) \\ \nu_{rr} &= \text{Var}(T_r) \\ \nu_{rs} &= \text{Cov}(T_r, T_s)\end{aligned}\tag{40}$$

$$U = \begin{Bmatrix} u_1 \\ u_2 \\ \vdots \\ u_n \end{Bmatrix} \quad \text{a column vector of the ordered observations}$$

$$\vec{1} = \begin{Bmatrix} 1 \\ 1 \\ \vdots \\ 1 \end{Bmatrix} \quad \text{a column vector of ones}$$

$$\vec{\alpha} = \begin{Bmatrix} \alpha_1 \\ \alpha_2 \\ \vdots \\ \alpha_n \end{Bmatrix} \quad \text{a column vector of the expectations of the standardised order statistics}$$

$$A = (\vec{1}, \vec{\alpha}) \quad \text{an } n \times 2 \text{ matrix}$$

$$V = \begin{pmatrix} v_{11} & v_{12} & \dots & v_{1n} \\ \vdots & \vdots & & \vdots \\ v_{n1} & v_{n2} & \dots & v_{nn} \end{pmatrix} \quad \text{an } n \times n \text{ matrix of the co-} \\ \text{variances of the standardized} \\ \text{order statistics}$$

$$\Omega = V^{-1} \quad \text{the inverse of } V$$

$$\Phi = \begin{pmatrix} C \\ \Theta \end{pmatrix} \quad \text{a column vector of the parameters to} \\ \text{be estimated}$$

$$\bar{\Phi} = \begin{pmatrix} \bar{C} \\ \bar{\Theta} \end{pmatrix} \quad \text{a column vector of the estimators}$$

In terms of the notation of Eq(40), the expected values of the ordered observations are

$$E(U_r) = C + \Theta \alpha_r \quad (41)$$

This equation expresses the linear regression of  $U_r$  on  $T_r$ . The method of least-squares applied to the estimation of the regression coefficients  $C$  and  $\Theta$  yields unbiased, linear estimators with minimum variance. In matrix notation:

$$E(U) = A \Phi \quad (42)$$

$$\text{and} \quad \text{Cov}(U) = \Theta^2 V \quad (43)$$

The least-squares normal equations have been developed in matrix notation by Guest (Ref 7:253). In order to motivate the form of the equations, consider the following argument. Let  $r_i$  be the  $i^{\text{th}}$  residual; that is,

$$r_i = u_i - \sum_{j=1}^2 \lambda_j \alpha_i^{j-1} \quad (44)$$

where  $\lambda_1 = C$  and  $\lambda_2 = \Theta$ . The least-squares principle calls for minimizing the quantity

$$\sum_{i=1}^n \omega_i r_i^2$$

where the  $\omega_i$  are weighting factors. According to the Gauss-Markhoff theorem, the weights  $\omega_i = \frac{1}{\sigma_i^2}$ , where the  $\sigma_i$  are defined by Eq(40), leads to minimum variance estimators. The generalisation of the least-squares principle and the Gauss-Markhoff theorem to a matrix equation for the residuals,

$$R = U - A\Phi \quad (45)$$

requires minimization of the expression

$$R^T \Omega R = (U - A\Phi)^T \Omega (U - A\Phi) \quad (46)$$

where the notation  $( )^T$  indicates the matrix transpose.

If the factors in Eq(46) are multiplied out, derivatives taken with respect to the estimators, and the differentials regrouped as column vectors, the resulting equation is

$$\frac{\partial}{\partial \Phi} (R^T \Omega R) = -2A^T \Omega U + 2A^T \Omega A \Phi \quad (47)$$

The normal equation is found by setting the partial derivative equal to zero:

$$A^T \Omega A \tilde{\Phi} = A^T \Omega U \quad (48)$$

which reduces to:

$$(\tilde{I}^T \Omega \tilde{I}) \tilde{c} + (\tilde{I}^T \Omega \tilde{\alpha}) \tilde{\theta} = \tilde{I}^T \Omega U \quad (49)$$

$$(\tilde{I}^T \Omega \tilde{\alpha}) \tilde{c} + (\tilde{\alpha}^T \Omega \tilde{\alpha}) \tilde{\theta} = \tilde{\alpha}^T \Omega U \quad (50)$$

The solutions of these equations for  $\tilde{c}$  and  $\tilde{\theta}$  are

$$\tilde{c} = \frac{(\tilde{I}^T \Omega U) D_2 - (\tilde{\alpha}^T \Omega U) B_2}{B_1 D_2 - B_2^2} \quad (51)$$

and

$$\tilde{\theta} = \frac{(\tilde{\alpha}^T \Omega U) B_1 - (\tilde{I}^T \Omega U) B_2}{B_1 D_2 - B_2^2} \quad (52)$$

where  $B_1 = \tilde{I}^T \Omega \tilde{I}$ ,  $B_2 = \tilde{I}^T \Omega \tilde{\alpha}$ , and  $D_2 = \tilde{\alpha}^T \Omega \tilde{\alpha}$ . The unbiased property of the estimators is shown by taking the expected values of both sides of Eq(48):

$$(A^T \Omega A) E(\tilde{\Phi}) = A^T \Omega E(U) \quad (53)$$

But  $E(U) = A \Phi$ , so that

$$(A^T \Omega A) E(\tilde{\Phi}) = A^T \Omega A \Phi \quad (54)$$

or 
$$E(\tilde{\Phi}) = \Phi \quad (55)$$

From Eq(48) it can also be seen that

$$\tilde{\Phi} = (A^T \Omega A)^{-1} A^T \Omega U \quad (56)$$

The covariance matrix of the estimators is

$$\begin{aligned} \text{Cov}(\tilde{\Phi}) &= E[(\tilde{\Phi} - \Phi)(\tilde{\Phi} - \Phi)^T] \\ &= E\left\{[(A^T \Omega A)^{-1} A^T \Omega U - \Phi][(A^T \Omega A)^{-1} A^T \Omega U - \Phi]^T\right\} \end{aligned}$$

or 
$$\text{Cov}(\tilde{\Phi}) = [(A^T \Omega A)^{-1} A^T \Omega] \text{Cov}(U) [(A^T \Omega A)^{-1} A^T \Omega]^T \quad (57)$$

From Eq(43):

$$\text{Cov}(U) = \theta^2 V = \theta^2 \Omega^{-1}$$

Since  $(A^T \Omega A)$  is symmetric:

$$[(A^T \Omega A)^{-1}]^T = (A^T \Omega A)^{-1} \quad (58)$$

The covariance matrix  $V$  is also symmetric, so that

$$(A^T \Omega)^T = \Omega A \quad (59)$$

Hence,

$$\text{Cov}(\tilde{\Phi}) = (A^T \Omega A)^{-1} A^T \Omega \theta^2 \Omega^{-1} (\Omega A) (A^T \Omega A)^{-1}$$

or

$$\text{Cov}(\tilde{\Phi}) = (A^T \Omega A)^{-1} \theta^2 \quad (60)$$

The elements of  $(A^T \Omega A)^{-1}$  are the coefficients in Eqs(49) and (50), and they are scalars. Let  $B_1$ ,  $B_2$ , and  $D_2$  be defined as before. Also define:

$$P = \begin{pmatrix} B_1 & B_2 \\ B_2 & D_2 \end{pmatrix} \quad (61)$$

Then,

$$\text{Cov}(\tilde{\Phi}) = \theta^2 P^{-1}$$

The determinant of  $P$  is given by

$$|P| = B_1 D_2 - B_2^2 \quad (62)$$

Finally, Eq(60) can be rewritten:

$$\text{Cov}(\tilde{\Phi}) = \frac{\theta^2}{|P|} \begin{pmatrix} D_2 & -B_2 \\ -B_2 & B_1 \end{pmatrix} \quad (63)$$

Thus, the variances and covariances of the estimators are known up to the factor  $\theta^2$ .

#### Conditional Estimators

If either  $C$  or  $\Theta$  is known, the normal equations for the

estimators simplify somewhat. In the following discussion the symbol  $\bar{c}/\theta$  denotes the conditional estimator for the location parameter when the scale parameter is known; similarly,  $\bar{\theta}/c$  denotes the scale estimator when the location parameter is known.

From Eq(47) it can be seen that

$$\frac{d}{dc}(R^T \Omega R) = -2(\bar{I}^T \Omega U) + 2[(\bar{I}^T \Omega \bar{I})c + (\bar{I}^T \Omega \bar{\alpha})\theta] \quad (64)$$

Hence the normal equation for  $\bar{c}/\theta$  is:

$$(\bar{I}^T \Omega \bar{I})\bar{c}/\theta + (\bar{I}^T \Omega \bar{\alpha})\theta = \bar{I}^T \Omega U \quad (65)$$

The expression for the conditional location estimator is, then:

$$\bar{c}/\theta = \frac{\bar{I}^T \Omega U - \theta(\bar{I}^T \Omega \bar{\alpha})}{\bar{I}^T \Omega \bar{I}} \quad (66)$$

or

$$\bar{c}/\theta = \frac{\bar{I}^T \Omega U - \theta B_2}{B_1} \quad (67)$$

where  $B_1$  and  $B_2$  are defined as in Eq(52).

The expected value of  $\bar{c}/\theta$  is

$$E(\bar{c}/\theta) = \frac{\bar{I}^T \Omega E(U) - \theta B_2}{B_1} \quad (68)$$

But

$$E(U) = A\Phi = \bar{I}c + \theta\bar{\alpha} \quad (69)$$

Hence, 
$$E(\bar{C}/\theta) = \frac{(\hat{I}^T \Omega \hat{I})C + (\hat{I}^T \Omega \hat{\alpha})\theta - \theta B_2}{B_1} \quad (70)$$

Since  $B_2 = \hat{I}^T \Omega \hat{\alpha}$ , then

$$E(\bar{C}/\theta) = C \quad (71)$$

and the estimator  $\bar{C}/\theta$  is an unbiased estimator for  $C$ .

The expression for the variance of  $\bar{C}/\theta$  is

$$\text{Var}(\bar{C}/\theta) = E[(\bar{C}/\theta - C)(\bar{C}/\theta - C)^T] \quad (72)$$

The result of carrying out the indicated operation in Eq(72) is

$$\text{Var}(\bar{C}/\theta) = \theta^2 (\hat{I}^T \Omega \hat{I})^{-1} = \frac{\theta^2}{B_1} \quad (73)$$

If the derivative of  $R^T \Omega R$  with respect to  $\theta$  is set equal to zero, the resulting expression is the normal equation for  $\bar{\theta}/C$  :

$$(\hat{\alpha}^T \Omega \hat{I})C + (\hat{\alpha}^T \Omega \hat{\alpha})\bar{\theta}/C = \hat{\alpha}^T \Omega U \quad (74)$$

and 
$$\bar{\theta}/C = \frac{\hat{\alpha}^T \Omega (U - \hat{I}C)}{D_2} \quad (75)$$

The expected value of  $\bar{\theta}/C$  is

$$\begin{aligned} E(\bar{\theta}/C) &= \frac{\hat{\alpha}^T \Omega E(U) - B_2 C}{D_2} \\ &= \frac{(\hat{\alpha}^T \Omega \hat{I})C + (\hat{\alpha}^T \Omega \hat{\alpha})\theta - B_2 C}{D_2} \end{aligned}$$



$$\text{or} \quad E(\bar{\theta}/C) = \theta \quad (76)$$

The result of evaluating the expression for the variance of  $\bar{\theta}/C$  is

$$\text{Var}(\bar{\theta}/C) = \theta^2 (\bar{\alpha}' \Omega \bar{\alpha})^{-1} = \frac{\theta^2}{D_2} \quad (77)$$

#### Simultaneous Estimators from the Conditional Estimators

The similarity between Eqs(49) and (50) and Eqs(65) and (74) suggests that the expressions for the conditional estimators could be used to determine the simultaneous estimators. Note that although the expressions are similar, they are not quite the same, since  $\bar{c} \neq \bar{c}/\theta$  and  $\bar{\theta} \neq \bar{\theta}/C$ . Consider an iteration process where the known values of  $\theta$  and  $C$  are replaced by  $\bar{\theta}/C$  and  $\bar{c}/\theta$  respectively in Eqs(65) and (74). If the iteration is allowed to go to completion and if the limiting values of the iterated estimators are denoted  $\bar{c}/\bar{\theta}$  and  $\bar{\theta}/\bar{c}$ , then Eqs(65) and (74) become, respectively:

$$(\bar{I}' \Omega \bar{I}) \bar{c}/\bar{\theta} + (\bar{I}' \Omega \bar{\alpha}) \bar{\theta}/\bar{c} = \bar{I}' \Omega U \quad (78)$$

$$(\bar{I}' \Omega \bar{\alpha}) \bar{c}/\bar{\theta} + (\bar{\alpha}' \Omega \bar{\alpha}) \bar{\theta}/\bar{c} = \bar{\alpha}' \Omega U \quad (79)$$

Thus, the limiting estimators are identical with the simultaneous estimators--  $\bar{c}/\bar{\theta} \equiv \bar{c}$  and  $\bar{\theta}/\bar{c} \equiv \bar{\theta}$ .

The expressions for obtaining the simultaneous estimators with the coefficients for the conditional estimators are derived at the end of the discussion on the use of the tables in the next section.

### V. Tabulation of the Estimation Coefficients

The method of tabulating the coefficients for estimation and the use of the tables are discussed in this section.

#### Method of Tabulation

The expressions developed in the last section were derived using all  $n$  of the ordered observations in the sample. However, it can be seen that the equations apply equally well if the elements of the matrices correspond to the smallest  $m$  out of  $n$  observations ( $m \leq n$ ) or some  $l$  observations selected from the  $m$  ( $l \leq m \leq n$ ). Further, the expressions for the estimators in Eqs(68) and (79) can be separated into a set of coefficients which depend only on the means, variances, and covariances of the standardized order statistics, and the vector of ordered observations. Thus, the conditional estimator for  $C$  has the form

$$\bar{C}/\theta = \sum_l \eta_i u_i - \theta A \quad (80)$$

where the  $\eta_i$  are the elements of the matrix  $(\bar{I}^T \Omega)/B_1$ ,  $A = \frac{B_2}{B_1}$ , and where the summation extends over the  $l$  selected observations. Similarly, the conditional estimator for  $\theta$  has the form

$$\bar{\theta}/C = \sum_l \lambda_i (u_i - C) \quad (81)$$

where the  $\lambda_i$  are the elements of the matrix  $(\bar{\alpha}^T \Omega)/D_2$ . Again the summation extends over the  $l$  selected values.

The expressions for the constants  $\eta_i$ ,  $\lambda_i$ , and  $A$  in Eqs(80)

and (81) were programmed for the Wright-Patterson IBM 7094 digital computer. The constants were calculated for values of  $n = 2$  to 13, values of  $m = 1$  to  $n$ , and values of  $l = 1$  to  $m$ . Calculations were repeated for eleven values of the shape parameter,  $K$ : 0.5(0.25)2.0(0.5)4.0. Thus the table contains  $n$ -order,  $m$ -order and  $l$ -order statistic estimation coefficients for each value of  $K$ .

For each value of  $l$ , only the coefficients for the most efficient estimators were tabulated. Efficiency as used here is defined by

$$\text{Eff}(\bar{c}) = \frac{\text{variance of } m\text{-order estimator}}{\text{variance of } l\text{-order estimator}}$$

Note from Eqs(73) and (77) that the efficiency--a ratio of the variances of the estimators--is independent of the value of  $\theta$ , even though the variances are functions of  $\theta$ .

#### Use of the Tables

Format of the Tables. The coefficients for estimators of  $\bar{c}/\theta$  and  $\bar{\theta}/c$  are tabulated in the appendixes. The tables are arranged according to the value of the shape parameter,  $K$ . The first three columns specify the complete sample size,  $n$ , the censored sample size,  $m$ , and the number of observations to be used for the estimator,  $l$ . As pointed out earlier, the coefficients tabled for a particular value of  $l$  are those which give the estimator with the highest efficiency relative to an estimator based on all  $m$  observations. The entries in the columns labeled I, columns four and six, determine which of the ordered observations are to be multiplied by the coefficients. Columns five and seven contain the estimation co-

efficients for estimators of  $\bar{C}/\Theta$  and  $\bar{\Theta}/C$  respectively. Below each set of coefficients, there are four quantities: BIAS CORR is the constant  $A$  in Eq(80); the entries VAR COEFF are variance coefficients, that is  $\text{Var}(\bar{C}/\Theta)/\Theta^2$  and  $\text{Var}(\bar{\Theta}/C)/C^2$ , of the estimators; the EFFICIENCY is the relative efficiency of the  $l$ -order estimator to the  $m$ -order estimator. When  $l = m$ , the efficiency of the  $m$ -order estimator relative to the  $n$ -order estimator is given in the entry EFF(M/N).

Computational Procedure. The procedure for computing estimators for  $\bar{C}/\Theta$  and  $\bar{\Theta}/C$  is as follows:

- (1) Find the section of the table which applies to the known value of shape parameter,  $K$ . The shape parameter is specified at the top of each page.
- (2) Find the entry corresponding to the specific values of complete sample size,  $n$ , censored sample size,  $m$ , and number of observations selected,  $l$ .
- (3) To estimate  $C$ , multiply the coefficient in column five by the observed order statistics corresponding to the number in column four. Repeat the process for all  $l$  coefficients, and add the results. This result is a biased estimate for  $C$ . Now multiply the bias correction by the known value of  $\Theta$  and subtract the result from the biased estimate. The resulting value is the unbiased, linear estimator for the location parameter,  $C$ .
- (4) To estimate  $\Theta$ , multiply the coefficient in column 7 by the quantity  $(U_i - C)$ , where  $C$  is the known location parameter, and  $U_i$  is the ordered observation correspond-

ing to the number in column 6. Repeat this procedure for all  $l$  coefficients and add the results. The sum is the unbiased, linear estimator of the scale parameter,  $\Theta$ .

(5) The variances and efficiencies of the estimators are given immediately after the coefficients.

Sample Calculation

The following calculation illustrates the use of the tables.

Suppose it is desired to find an estimator for  $C$  when  $K=2.0$ ,  $\Theta=5.0$ ,  $n=5$ ,  $m=4$  and  $l=3$ .

The appropriate entry from the table is:

5	4	3	1	0.586689	2	0.224559
			2	0.204547	3	0.217390
			4	0.208764	4	0.615839
			BIAS CORR	0.589966		
			VAR COEFF	0.035064		0.064732
			EFFICIENCY	99.21		99.54

For the purposes of illustration, suppose the ordered observations are  $u_1 = 2$ ,  $u_2 = 5$ , and  $u_4 = 10$ . Then the estimator,  $\bar{c}/\theta$ , is

$$\begin{aligned} \bar{c}/\theta &= 2.(0.586689) + 5.(0.204547) \\ &\quad + 10.(0.208764) - 5.(0.589966) \\ &= 1.333923 \end{aligned}$$

The variance of the estimator is

$$\text{Var}(\bar{c}/\theta) = (5)^2(0.035064) = 0.876000$$

The efficiency relative to the  $m$ -order estimator is read directly 99.21 %.

Simultaneous Estimators

It was shown in Section IV that simultaneous estimators could be computed with the coefficients for the pair of conditional estimators. Note that in the proof given at that time it was assumed that both  $\bar{C}/\bar{\theta}$  and  $\bar{\theta}/C$  were based on the same ordered observations. Thus the expressions derived below apply to  $l$ -order estimators only when the conditional estimators for  $C$  and  $\theta$  are based on the same ordered observations. This difficulty does not arise in the  $m$ - or  $n$ -order-statistic estimators.

If, in Eq(80), the value  $\bar{\theta}/C$  is substituted for the known value of  $\theta$ , and in Eq(81)  $C$  is replaced by  $\bar{C}/\bar{\theta}$ , the estimators become:

$$\bar{C}/\bar{\theta} = \sum_{\lambda} \eta_i u_i - A(\bar{\theta}/C) \quad (82)$$

and 
$$\bar{\theta}/C = \sum_{\lambda} \lambda_i (u_i - \bar{C}/\bar{\theta}) \quad (83)$$

where the  $\eta_i$  and  $\lambda_i$  are the tabled coefficients for conditional estimation of  $C$  and  $\theta$ , respectively. If the iteration process implied here is allowed to go to completion, Eq(82) becomes:

$$\bar{C}/\bar{\theta} = \sum_{\lambda} \eta_i u_i - A \left( \sum_{\lambda} \lambda_i u_i - \sum_{\lambda} \lambda_i \bar{C}/\bar{\theta} \right)$$

or 
$$\tilde{C} = \sum_{\lambda} \eta_i u_i - A \sum_{\lambda} \lambda_i u_i + A \tilde{C} \sum_{\lambda} \lambda_i \quad (84)$$

since it was shown in Section IV that  $\tilde{C}/\tilde{\Theta} \equiv \tilde{C}$ . Eq(83) can now be rewritten:

$$\tilde{\Theta} = \sum_{\ell} \lambda_i u_i - \tilde{C} \sum_{\ell} \lambda_i \quad (85)$$

Now, let  $k_1 = \sum_{\ell} \eta_i u_i$ ,  $k_2 = \sum_{\ell} \lambda_i u_i$ , and  $k_3 = \sum_{\ell} \lambda_i$ . Then

$$\tilde{C} = k_1 - A k_2 + A k_3 \tilde{C}$$

or 
$$\tilde{C} = \frac{k_1 - A k_2}{1 - A k_3} \quad (86)$$

The expression for  $\tilde{\Theta}$  becomes:

$$\tilde{\Theta} = k_2 - k_3 \left( \frac{k_1 - A k_2}{1 - A k_3} \right)$$

or 
$$\tilde{\Theta} = \frac{k_2 - k_1 k_3}{1 - A k_3} \quad (87)$$

In terms of the coefficients for the conditional estimators and the ordered observations, the simultaneous estimators can now be written:

$$\tilde{C} = \frac{\sum \eta_i u_i - A \sum \lambda_i u_i}{1 - A \sum \lambda_i} \quad (88)$$

$$\tilde{\Theta} = \frac{\sum \lambda_i u_i - (\sum \lambda_i) \sum \eta_i u_i}{1 - A \sum \lambda_i} \quad (89)$$

From Eq(63) the variances of  $\tilde{c}$  and  $\tilde{\theta}$  are

$$\text{Var}(\tilde{c}) = \frac{\theta^2 D_2}{B_1 D_2 - B_2^2}$$

$$\text{Var}(\tilde{\theta}) = \frac{\theta^2 B_1}{B_1 D_2 - B_2^2}$$

Also, from Eqs(73) and (77):

$$\text{Var}(\tilde{c}|\theta) = \frac{\theta^2}{B_1} \quad (73)$$

$$\text{Var}(\tilde{\theta}|c) = \frac{\theta^2}{D_2} \quad (77)$$

Finally,  $A = B_2/B_1$ .

With the aid of these relationships, the variances of the simultaneous estimators can be expressed in terms of the variances of the conditional estimators. The resulting expressions are:

$$\text{Var}(\tilde{c}) = \frac{\text{Var}^2(\tilde{c}|\theta)}{\text{Var}(\tilde{c}|\theta) - A^2 \text{Var}(\tilde{\theta}|c)} \quad (90)$$

$$\text{Var}(\tilde{\theta}) = \frac{\text{Var}(\tilde{c}|\theta) \text{Var}(\tilde{\theta}|c)}{\text{Var}(\tilde{c}|\theta) - A^2 \text{Var}(\tilde{\theta}|c)} \quad (91)$$

#### Accuracy of the Tables

The accuracy of the tables was checked by comparing coefficients for simultaneous estimators derived from the tabled conditional estimation coefficients, with the coefficients obtained for simultaneous estimators by Musson (Ref 13). No discrepancies appeared



GAW/MATH/68-1

As a further check, the coefficients for the conditional estimation of  $\Theta$  were compared with those tabled by Clark (Ref 2). The entries were identical with Clark's in every case checked. The accuracy of these calculations is discussed briefly by Musson (Ref 13:15).

VI. Summary and Conclusions

In this section, the paper is summarized briefly, and some conclusions are drawn about the value of the estimators.

Summary

The purpose of this thesis was to tabulate coefficients for a conditional, linear, unbiased estimator of the location parameter of the Weibull probability density function by the use of selected order statistics.

In the introduction some background on the use of order statistics and on the Weibull distribution was presented. The assumptions and limitations of the method of estimation were discussed. This information was followed by a brief treatment of the Weibull probability density function and some of the important moments of that density function.

Expressions for the distributions of the Weibull order statistics, and for the expected values, variance, and covariances of standardized Weibull order statistics were derived in detail. In Section IV, the method of least-squares linear, unbiased estimation was developed in a general form. Expressions were derived for both simultaneous and conditional estimators of  $C$  and  $\Theta$ . Throughout the discussion it was assumed that the shape parameter,  $K$  was known. It was shown that knowledge of the coefficients of estimation for conditional estimators contained sufficient information for computing both conditional and simultaneous estimators.

The method of calculating the coefficients and the procedure for

using the tables in the appendixes were described in full detail. A brief statement on the accuracy of the tabulated coefficients was made.

### Conclusions

The method of estimation presented here leads to a fairly simple and accurate method of calculating estimates of the location and scale parameters for the Weibull distributions for sample sizes up to  $n = 13$ . The linearity of the estimators, along with the table of coefficients, makes the computation of estimators amenable to both manual and digital computer techniques. However, for sample sizes much larger than  $n = 13$ , difficulty is encountered in two areas. First, the accurate calculation of the covariances of the standardized order statistics rapidly increases in difficulty with increasing  $n$ . And, second, the calculation of the estimation coefficients becomes increasingly more time consuming because of both the number of cases to be considered and the necessity of inverting large matrices numerically.

Finally, the method presented in Section IV was very general, and applies to many other continuous probability distributions in addition to the Weibull distribution.

Bibliography

1. Barlow, Richard E. and Frank Proschan. Mathematical Theory of Reliability. New York: John Wiley & Sons, 1965.
2. Clark, Lest J. Jr. Estimation of the Scale Parameter of the Weibull Probability Density Function by Use of One Order and of M Order Statistics. Unpublished thesis, Wright-Patterson AFB, Ohio: Air Force Institute of Technology, 1964.
3. Cohen, A. Clifford. "Maximum Likelihood Estimation in the Weibull Distribution Based on Complete and on Censored Samples." Technometrics, 7:579-588, 1965.
4. Dieter, George F. Jr. Mechanical Metallurgy. New York: McGraw-Hill Book Co., 1961.
5. Freund, John E. Mathematical Statistics. Englewood Cliffs, N. J.: Prentice-Hall, Inc., 1962.
6. Gross, David I. On Regression Techniques for Estimating the Parameters of Weibull Cumulative Distributions. Unpublished thesis, Wright-Patterson AFB, Ohio: Air Force Institute of Technology, 1965.
7. Guest, P. G. Numerical Methods of Curve Fitting. London: Cambridge University Press, 1961.
8. Harter, H. Leon and Albert H. Moore. "Asymptotic Variances and Covariances of Maximum-Likelihood Estimators, From Censored Samples, of the Parameters of Weibull and Gamma Populations." Annals of Mathematical Statistics, 38:557-570, 1967.
9. -----, "Point and Interval Estimation, Based on m Order Statistics, for the Scale Parameter of a Weibull Population with Known Shape Parameter." Technometrics, 7:405-421, 1965.
10. -----, "Maximum-Likelihood Estimation of the Parameters of Gamma and Weibull Populations from Complete and Censored Samples." Technometrics, 7:639-643, 1965.
11. Lieblein, Julius. "On Moments of Order Statistics from the Weibull Distribution." Annals of Mathematical Statistics, 26:330-333, 1955.
12. Lloyd, E. H. "Generalised Least-Squares Theorem" in Contributions to Order Statistics, edited by A. E. Sarhan and B. G. Greenberg. New York: John Wiley & Sons, 1962.

13. Musson, Thomas A. Linear Estimation of the Location and Scale Parameters of the Weibull and Gamma Probability Distributions by the Use of Order Statistics. Unpublished thesis. Wright-Patterson AFB, Ohio: Air Force Institute of Technology, 1965.
14. Pearson, Karl, "Note on Francis Galton's Problem." Biometrika, 1:390-399, 1902.
15. Weibull, W. "A Statistical Distribution Function of Wide Applicability." Journal of Applied Mechanics, Transactions of ASME, 18:293-297, 1951.
16. -----, "A Statistical Representation of Fatigue Failure in Solids." Transactions of the Royal Institute of Technology, 24, 1949.
17. Wilks, S. S. "Order Statistics." Bulletin of the American Mathematical Society, 54:6-50, 1948.

APPENDIX A

Tables  
for  
Sample Size 2 to 10

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
2	2	2	1	1.032258	1	0.578125
			2	-0.032258	2	0.203125
			BIAS CORR	0.403226		
			VAR COEFF	1.217742		2.359375
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
2	2	1	1	1.000000	2	0.285714
			BIAS CORR	0.500000		
			VAR COEFF	1.250000		2.795918
			EFFICIENCY	97.42		84.34
2	1	1	1	1.000000	1	2.000000
			BIAS CORR	0.500000		
			VAR COEFF	1.250000		5.000000
			EFFICIENCY	100.00		100.00
			EFF(M/N)	97.42		47.19
3	3	3	1	1.062309	1	0.558988
			2	-0.057197	2	0.247734
			3	-0.005112	3	0.118907
			BIAS CORR	0.151554		
			VAR COEFF	0.236168		1.520335
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
3	3	2	1	1.065844	2	0.391310
			2	-0.065844	3	0.124295
			BIAS CORR	0.167351		
			VAR COEFF	0.237159		1.582457
			EFFICIENCY	99.58		96.07
3	3	1	1	1.000000	3	0.211765
			BIAS CORR	0.222222		
			VAR COEFF	0.246914		2.040277
			EFFICIENCY	95.5		74.52
3	2	2	1	1.065844	1	0.894578
			2	-0.065844	2	0.759036
			BIAS CORR	0.167352		
			VAR COEFF	0.237159		2.343374

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		64.88
3	2	1	1	1.000000	2	0.947368
				BIAS CORR		
				0.222222		
				VAR COEFF		2.506925
				0.246914		
				EFFICIENCY		93.48
				96.05		
3	1	1	1	1.000000	1	4.500000
				BIAS CORR		
				0.222222		
				VAR COEFF		5.000000
				0.246914		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		30.41
				95.65		
4	4	4	1	1.079024	1	0.538678
			2	-0.065972	2	0.317218
			3	-0.011709	3	0.188085
			4	-0.001344	4	0.081410
				BIAS CORR		
				0.074527		
				VAR COEFF		1.115097
				0.073849		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		100.00
				100.00		
4	4	3	1	1.080014	2	0.422871
			2	-0.066204	3	0.191614
			3	-0.013807	4	0.082695
				BIAS CORR		
				0.078924		
				VAR COEFF		1.131494
				0.073928		
				EFFICIENCY		98.55
				99.89		
4	4	2	1	1.087097	3	0.303385
			2	-0.087097	4	0.089423
				BIAS CORR		
				0.091129		
				VAR COEFF		1.214765
				0.074496		
				EFFICIENCY		91.80
				99.13		
4	4	1	1	1.000000	4	0.173494
				BIAS CORR		
				0.125000		
				VAR COEFF		1.651566
				0.078125		
				EFFICIENCY		67.52
				94.53		



TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE	
4	3	3	1	1.080014	1	0.742880	
			2	-0.066204	2	0.442504	
			3	-0.013809	3	0.425578	
				BIAS CORR	0.078924		
				VAR COEFF	0.073928		1.509001
				EFFICIENCY	100.00		100.00
				EFF(M/N)	99.89		73.90
4	3	2	1	1.087097	2	0.591828	
			2	-0.087097	3	0.435673	
				BIAS CORR	0.071129		
				VAR COEFF	0.074496		1.540373
				EFFICIENCY	99.24		97.96
4	3	1	1	1.000000	3	0.626087	
				BIAS CORR	0.125000		
				VAR COEFF	0.078125		1.708960
				EFFICIENCY	94.63		88.30
4	2	2	1	1.087097	1	1.208861	
			2	-0.087097	2	1.651399	
				BIAS CORR	0.091129		
				VAR COEFF	0.074496		2.338608
				EFFICIENCY	100.00		100.00
				EFF(M/N)	99.13		47.68
4	2	1	1	1.000000	2	1.945946	
				BIAS CORR	0.125000		
				VAR COEFF	0.078125		2.422936
				EFFICIENCY	95.35		96.52
4	1	1	1	1.000000	1	8.000000	
				BIAS CORR	0.125000		
				VAR COEFF	0.078125		5.000000
				EFFICIENCY	100.00		100.00
				EFF(M/N)	94.53		22.30
5	5	5	1	1.089115	1	0.522047	
			2	-0.069831	2	0.322968	
			3	-0.015322	3	0.209647	
			4	-0.003491	4	0.132812	

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
			5	-0.000470	5	0.060808
			BIAS CORR	0.042650		
			VAR COEFF	0.030006		0.878133
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
5	5	4	1	1.089464	2	0.437202
			2	-0.069896	3	0.211780
			3	-0.015371	4	0.133872
			4	-0.004197	5	0.061241
			BIAS CORR	0.044266		
			VAR COEFF	0.030017		0.884066
			EFFICIENCY	99.96		99.33
5	5		1	1.091548	2	0.674105
			2	-0.070283	4	0.177118
			3	-0.021265	5	0.062987
			BIAS CORR	0.048297		
			VAR COEFF	0.030082		0.906449
			EFFICIENCY	99.75		96.88
5	5	2	1	1.101186	3	0.547713
			2	-0.101186	5	0.081908
			BIAS CORR	0.057233		
			VAR COEFF	0.030381		0.974832
			EFFICIENCY	98.77		90.08
5	5	1	1	1.000000	4	0.473809
			BIAS CORR	0.080000		
			VAR COEFF	0.032000		1.318297
			EFFICIENCY	93.77		66.61
5	4	4	1	1.089464	1	0.665594
			2	-0.069896	2	0.413611
			3	-0.015371	3	0.271344
			4	-0.004197	4	0.282456
			BIAS CORR	0.044266		
			VAR COEFF	0.030017		1.107347
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.96		79.30

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE	
5	4	3	1	1.091548	2	0.560493	
			2	-0.070283	3	0.274623	
			3	-0.021265	4	0.285171	
				BIAS CORR	0.048297		
				VAR COEFF	0.030082		1.117010
				EFFICIENCY	99.78		99.13
5	4	2	1	1.101186	2	0.874921	
			2	-0.101186	4	0.347373	
				BIAS CORR	0.057233		
				VAR COEFF	0.030381		1.154971
				EFFICIENCY	98.80		95.88
5	4	1	1	1.000000	4	0.473909	
				BIAS CORR	0.080000		
				VAR COEFF	0.032000		1.318297
				EFFICIENCY	93.80		84.00
5	3	3	1	1.091548	1	0.928982	
			2	-0.070283	2	0.583764	
			3	-0.021265	3	0.903788	
				BIAS CORR	0.048297		
				VAR COEFF	0.030082		1.505130
				EFFICIENCY	100.00		100.00
				EFF(M/N)	99.75		58.34
5	3	2	1	1.101186	2	0.791845	
			2	-0.101186	3	0.916909	
				BIAS CORR	0.057233		
				VAR COEFF	0.030381		1.524031
				EFFICIENCY	99.01		98.76
5	3	1	1	1.000000	3	1.208865	
				BIAS CORR	0.080000		
				VAR COEFF	0.032000		1.611606
				EFFICIENCY	94.00		93.39
5	2	2	1	1.101186	1	1.522373	
			2	-0.101186	2	2.879378	
				BIAS CORR	0.057233		
				VAR COEFF	0.030381		2.336576

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		37.58
5	2	1	1	1.000000	2	3.278689
				BIAS CORR		
				0.080000		
				VAR CCEFF		2.387799
				0.032000		
				EFFICIENCY		97.85
				94.94		
5	1	1	1	1.000000	1	12.500000
				BIAS CORR		
				0.000000		
				VAR CCEFF		5.000000
				0.032000		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		17.56
				93.77		
6	6	6	1	1.095744	1	0.508664
			2	-0.071819	2	0.324110
			3	-0.017497	3	0.219713
			4	-0.004919	4	0.151653
			5	-0.001311	5	0.100524
			6	-0.000198	6	0.047959
				BIAS CORR		
				0.026907		
				VAR CCEFF		0.723250
				0.014387		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		100.00
				100.00		
6	6	5	1	1.095889	2	0.444219
			2	-0.071842	3	0.221338
			3	-0.017512	4	0.152378
			4	-0.004935	5	0.100934
			5	-0.001600	6	0.048179
				BIAS CORR		
				0.027619		
				VAR CCEFF		0.725859
				0.014389		
				EFFICIENCY		99.64
				99.99		
6	6	4	1	1.096653	2	0.656964
			2	-0.071964	4	0.207077
			3	-0.017591	5	0.102241
			4	-0.007098	6	0.048716
				BIAS CORR		
				0.029272		
				VAR CCEFF		0.733349
				0.014400		
				EFFICIENCY		98.62
				99.91		

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE	
6	6	3	1	1.099609	2	0.535170	
			2	-0.072434	3	0.135515	
			3	-0.027174	4	0.050075	
				BIAS CORR	0.032568		
				VAR CCEFF	0.014443		0.751812
				EFFICIENCY	99.61		96.20
		6	6	2	1	1.111111	4
2	-0.111111				5	0.065606	
				BIAS CORR	0.039259		
				VAR CCEFF	0.014609		0.812935
				EFFICIENCY	98.48		88.97
6	6	1	1	1.000000	5	0.385522	
				BIAS CORR	0.055556		
				VAR CCEFF	0.015432		1.086407
				EFFICIENCY	93.23		66.57
6	5	5	1	1.095889	1	0.618059	
			2	-0.071842	2	0.394750	
			3	-0.017512	3	0.269007	
			4	-0.004935	4	0.187262	
			5	-0.001600	5	0.205979	
				BIAS CORR	0.027619		
				VAR CCEFF	0.014389		0.872648
				EFFICIENCY	100.00		100.00
				EFF(M/N)	99.99		82.88
6	5	4	1	1.096653	2	0.541130	
			2	-0.071964	3	0.270964	
			3	-0.017591	4	0.188305	
			4	-0.007098	5	0.206959	
				BIAS CORR	0.029272		
				VAR CCEFF	0.014400		0.876503
				EFFICIENCY	99.92		99.56
6	5	3	1	1.099608	2	0.803554	
			2	-0.072434	4	0.255928	
			3	-0.027174	5	0.210013	
				BIAS CORR	0.032568		

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY		0.887757 98.30
6	5	2	1	1.111111	2	0.662000
			2	-0.111111	5	0.255220
				BIAS CORR		
				VAR CCEFF		0.916023
				EFFICIENCY		95.26
6	5	1	1	1.000000	5	0.385522
				BIAS CORR		
				VAR CCEFF		1.086407
				EFFICIENCY		80.32
6	4	4	1	1.096653	1	0.794888
			2	-0.071964	2	0.510409
			3	-0.017591	3	0.351202
			4	-0.007098	4	0.586620
				BIAS CORR		
				VAR CCEFF		1.104449
				EFFICIENCY		100.00
				EFF(M/N)		65.49
6	4	3	1	1.099608	2	0.699635
			2	-0.072434	3	0.354225
			3	-0.027174	4	0.592424
				BIAS CORR		
				VAR CCEFF		1.110935
				EFFICIENCY		99.43
6	4	2	1	1.111111	2	1.047329
			2	-0.111111	4	0.685059
				BIAS CORR		
				VAR CCEFF		1.130155
				EFFICIENCY		97.73
6	4	1	1	1.000000	4	0.874211
				BIAS CORR		
				VAR CCEFF		1.219665
				EFFICIENCY		90.55

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE			
6	3	3	1	1.099608	1	1.115753			
			2	-0.072434	2	0.723582			
			3	-0.027174	3	1.550643			
			BIAS CORR	0.032568					
			VAR CCEFF	0.014443		1.503331			
			EFFICIENCY	100.00		100.00			
			EFF(M/N)	99.61		48.11			
6	3	2	1	1.111111	2	0.991825			
			2	-0.111111	3	1.565806			
			BIAS CORR	0.039259					
			VAR CCEFF	0.014609		1.515946			
			EFFICIENCY	98.86		99.17			
			6	3	1	1	1.000000	2	1.958651
						BIAS CORR	0.055556		
VAR CCEFF	0.015432					1.565697			
EFFICIENCY	93.59					95.77			
6	2	2				1	1.111111	1	1.835526
						2	-0.111111	2	4.440790
						BIAS CORR	0.039259		
			VAR CCEFF	0.014609		2.335526			
			EFFICIENCY	100.00		100.00			
			EFF(M/N)	98.48		30.97			
			6	2	1	1	1.000000	2	4.945055
BIAS CORR	0.055556								
VAR CCEFF	0.015432					2.369883			
EFFICIENCY	94.67					98.55			
6	1	1				1	1.000000	1	18.000000
						BIAS CORR	0.055556		
						VAR CCEFF	0.015432		5.000000
			EFFICIENCY	100.00		100.00			
			EFF(M/N)	93.23		14.46			
			7	7	7	1	1.100389	1	0.497755
						2	-0.072956	2	0.323664
3	-0.018923	3				0.225526			
4	-0.005904	4				0.162018			

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
			5	-0.001936	5	0.116400
			6	-0.000575	6	0.079758
			7	-0.000095	7	0.039356
				BIAS CORR		0.018177
				VAR CCEFF		0.007732
				EFFICIENCY		100.00
				EFF(M/N)		100.00
7	7	6	1	1.100457	2	0.447646
			2	-0.072966	3	0.226560
			3	-0.018929	4	0.162533
			4	-0.005910	5	0.116703
			5	-0.001942	6	0.079945
			6	-0.000711	7	0.039443
				BIAS CORR		0.018531
				VAR CCEFF		0.007732
				EFFICIENCY		99.99
7	7	5	1	1.100783	2	0.647660
			2	-0.073012	4	0.225126
			3	-0.018957	5	0.117543
			4	-0.005935	6	0.080427
			5	-0.002880	7	0.039658
				BIAS CORR		0.019312
				VAR CCEFF		0.007735
				EFFICIENCY		99.96
7	7	4	1	1.101703	3	0.537890
			2	-0.073143	5	0.160390
			3	-0.024186	6	0.081564
			5	-0.004375	7	0.040157
				BIAS CORR		0.019653
				VAR CCEFF		0.007742
				EFFICIENCY		99.87
7	7	3	1	1.104839	4	0.447663
			2	-0.089912	6	0.109009
			4	-0.014927	7	0.041523
				BIAS CORR		0.021289
				VAR CCEFF		0.007766
				EFFICIENCY		99.56



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE	
7	7	2	1	1.118453	5	0.316920	
			2	-0.118453	7	0.05787	
			BIAS CORR		0.028595		
			VAR COEFF		0.007869		0.702090
			EFFICIENCY		98.25		87.50
7	7	1	1	1.000000	6	0.327777	
			BIAS CORR		0.040816		
			VAR COEFF		0.008330		0.932542
			EFFICIENCY		92.87		65.88
7	6	6	1	1.100457	1	0.585528	
			2	-0.072966	2	0.381745	
			3	-0.018929	3	0.266231	
			4	-0.005910	4	0.192027	
			5	-0.001942	5	0.135169	
			6	-0.000711	6	0.155479	
			BIAS CORR		0.018531		
			VAR COEFF		0.007732		0.715717
			EFF(M/N)		100.00		100.00
EFFICIENCY		99.99		85.42			
7	6	5	1	1.100783	2	0.527295	
			2	-0.073012	3	0.267552	
			3	-0.018957	4	0.192715	
			4	-0.005935	5	0.135586	
			5	-0.002880	6	0.155906	
			BIAS CORR		0.019312		
VAR COEFF		0.007735		0.721031			
EFFICIENCY		99.97		99.75			
7	6	4	1	1.101703	2	0.764245	
			2	-0.073143	4	0.266856	
			3	-0.024186	5	0.140724	
			4	-0.004375	6	0.160990	
			BIAS CORR		0.019653		
VAR COEFF		0.007742		0.725458			
EFFICIENCY		99.88		99.14			
7	6	3	1	1.104839	2	0.637519	

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
			2	-0.089912	2	0.192035
			4	-0.014927	6	0.163543
				BIAS CORR		0.021289
				VAR CCEFF		0.007766
				EFFICIENCY		99.57
7	6	2	1	1.118453	4	0.536275
			2	-0.118453	6	0.200009
				BIAS CORR		0.028535
				VAR CCEFF		0.007869
				EFFICIENCY		98.26
7	6	1	1	1.000000	6	0.327977
				BIAS CORR		0.040816
				VAR CCEFF		0.008330
				EFFICIENCY		92.83
7	5	5	1	1.100783	1	0.716133
			2	-0.073012	2	0.467632
			3	-0.016957	3	0.328106
			4	-0.005935	4	0.238694
			5	-0.002880	5	0.422801
				BIAS CORR		0.019317
				VAR CCEFF		0.007735
				EFFICIENCY		100.00
				EFF(M/N)		99.96
7	5	4	1	1.101703	2	0.646649
			2	-0.073143	3	0.329926
			3	-0.024186	4	0.239688
			5	-0.004375	5	0.424241
				BIAS CORR		0.019653
				VAR CCEFF		0.007742
				EFFICIENCY		99.91
7	5	3	1	1.104839	2	0.940301
			2	-0.089912	4	0.331701
			4	-0.014927	5	0.428032
				BIAS CORR		0.021289
				VAR CCEFF		0.007766
				EFFICIENCY		99.60

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
7	5	2	1	1.118453	2	0.790023
			2	-0.118453	5	0.497837
			BIAS CORR	0.028595		
			VAR CCEFF	0.007869		0.895742
			EFFICIENCY	98.29		97.18
7	5	1	1	1.000000	5	0.686130
			BIAS CORR	0.040816		
			VAR CCEFF	0.008330		0.985629
			EFFICIENCY	92.86		87.56
7	4	4	1	1.101902	1	0.925007
			2	-0.073171	2	0.607161
			3	-0.019052	3	0.429594
			4	-0.009679	4	0.997036
			BIAS CORR	0.020771		
			VAR CCEFF	0.007743		1.103008
			EFFICIENCY	100.00		100.00
			EFF (M/N)	49.85		59.70
7	4	1	1	1.104839	2	0.835236
			2	-0.089912	3	0.432394
			4	-0.014927	4	1.001661
			BIAS CORR	0.021289		
			VAR CCEFF	0.007766		1.107543
EFFICIENCY	99.71		99.59			
7	4	2	1	1.118453	2	1.227422
			2	-0.118453	4	1.131535
			BIAS CORR	0.028595		
			VAR CCEFF	0.007869		1.119156
			EFFICIENCY	98.40		98.56
7	4	1	1	1.000000	4	1.374453
			BIAS CORR	0.040816		
			VAR CCEFF	0.008330		1.176322
			EFFICIENCY	92.96		93.77
7	3	3	1	1.105541	1	1.302809
			2	-0.073688	2	0.862659

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
			3	-0.031853	2	2.65175
			BIAS CORR	0.023435		
			VAR CCEFF	0.007771		1.502340
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.49		60.89
7	3	2	1	1.118453	2	1.191814
			2	-0.118453	3	2.381795
			BIAS CORR	0.028595		
			VAR CCEFF	0.007869		1.511353
			EFFICIENCY	98.75		99.40
7	3	1	1	1.000000	3	2.875212
			BIAS CORR	0.040816		
			VAR CCEFF	0.008330		1.547753
			EFFICIENCY	93.29		97.07
7	2	2	1	1.118453	1	2.148482
			2	-0.118453	2	6.335863
			BIAS CORR	0.028595		
			VAR CCEFF	0.007869		2.334915
			EFFICIENCY	100.00		100.00
			EFF(M/N)	98.25		26.31
7	2	1	1	1.000000	2	6.944882
			BIAS CORR	0.040816		
			VAR CCEFF	0.008330		2.359539
			EFFICIENCY	94.47		98.96
7	1	1	1	1.000000	1	24.500000
			BIAS CORR	0.040816		
			VAR CCEFF	0.008330		5.000000
			EFFICIENCY	100.00		100.00
			EFF(M/N)	92.82		12.29
8	8	8	1	1.103807	1	0.488708
			2	-0.073655	2	0.322529
			3	-0.019920	3	0.228822
			4	-0.006617	4	0.168492
			5	-0.002405	5	0.125837
			6	-0.000877	6	0.093141

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
			7	-0.000283	7	0.065467
			8	-0.000950	8	0.033177
				BIAS CORR		0.012916
				VAR CCEFF		0.004517
				EFFICIENCY		100.00
				EFF(M/N)		100.00
8	8	7	1	1.103842	2	0.449164
			2	-0.073660	3	0.229619
			3	-0.019922	4	0.168883
			4	-0.006619	5	0.126066
			5	-0.002407	6	0.093289
			6	-0.000880	7	0.065562
				-0.000353	8	0.033223
				BIAS CORR		0.013110
				VAR CCEFF		0.004517
				EFFICIENCY		100.00
						99.86
8	8	6	1	1.103997	2	0.641142
			2	-0.073680	4	0.237032
			3	-0.019934	5	0.126637
			4	-0.006629	6	0.093635
			5	-0.003218	7	0.065778
			7	-0.000536	8	0.033324
				BIAS CORR		0.013248
				VAR CCEFF		0.004518
				EFFICIENCY		99.98
8	8	5	1	1.104725	3	0.542358
			2	-0.073723	5	0.176148
			3	-0.019958	6	0.094429
			4	-0.008679	7	0.066269
			6	-0.001966	8	0.033555
				BIAS CORR		0.013666
				VAR CCEFF		0.004519
				EFFICIENCY		99.95
8	8	4	1	1.105320	3	0.552486
			2	-0.073852	5	0.267231
			3	-0.025445	7	0.087030
			5	-0.006022	8	0.034123

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	J	LOCATION	I	SCALE
				BIAS CORR	0.014440	
				VAR CCEFF	0.004523	0.547436
				EFFICIENCY	99.85	97.49
8	8	3	1	1.108619	4	0.617260
			2	-0.090738	7	0.106545
			4	-0.017882	8	0.035538
				BIAS CORR	0.015809	
				VAR CCEFF	0.004538	0.568213
				EFFICIENCY	99.53	93.92
8	8	2	1	1.057995	6	0.325430
			3	-0.057995	8	0.047117
				BIAS CORR	0.018412	
				VAR CCEFF	0.004602	0.621387
				EFFICIENCY	98.14	85.88
8	8	1	1	1.000000	7	0.287484
				BIAS CORR	0.031250	
				VAR CCEFF	0.004883	0.822740
				EFFICIENCY	92.50	64.87
8	7	7	1	1.103842	1	0.561684
			2	-0.073660	2	0.370950
			3	-0.019922	3	0.263530
			4	-0.006619	4	0.194446
			5	-0.002407	5	0.145763
			6	-0.000880	6	0.108775
			7	-0.000353	7	0.128684
				BIAS CORR	0.013110	
				VAR CCEFF	0.004517	0.611269
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	87.31
8	7	6	1	1.103997	2	0.516644
			2	-0.073680	3	0.264502
			3	-0.019934	4	0.194936
			4	-0.006629	5	0.146059
			5	-0.003218	6	0.108970
			7	-0.000536	7	0.128895
				BIAS CORR	0.013248	

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				0.004518 99.98		0.612227 99.84
8	7	5	1	1.104325	2	0.738125
			2	-0.073723	4	0.273567
			3	-0.019958	5	0.146787
			4	-0.008679	6	0.109424
			6	-0.001966	7	0.129366
				BIAS CORR 0.013666		
				VAR CCEFF 0.004519		0.614300
				EFFICIENCY 99.95		99.51
8	7	4	1	1.105320	3	0.625745
			2	-0.073852	5	0.204178
			3	-0.025445	6	0.110467
			5	-0.006022	7	0.130441
				BIAS CORR 0.014440		
				VAR CCEFF 0.004523		0.619018
				EFFICIENCY 99.86		98.75
8	7	3	1	1.108619	3	0.639284
			2	-0.090738	5	0.311599
			4	-0.017982	7	0.156073
				BIAS CORR 0.015809		
				VAR CCEFF 0.004538		0.629900
				EFFICIENCY 99.54		97.04
8	7	2	1	1.057995	5	0.453694
			3	-0.057995	7	0.163746
				BIAS CORR 0.018412		
				VAR CCEFF 0.004602		0.658079
				EFFICIENCY 98.14		92.89
8	7	1	1	1.000000	7	0.287484
				BIAS CORR 0.031250		
				VAR CCEFF 0.004883		0.822740
				EFFICIENCY 92.51		74.30
8	6	6	1	1.103998	1	0.664128
			2	-0.073680	2	0.439403
			3	-0.019934	3	0.312942

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
			4	-0.006629	4	0.231891
			5	-0.002417	5	0.175184
			6	-0.001328	6	0.323258
				BIAS CORR		0.013517
				VAR CCEFF		0.004518
				EFFICIENCY		100.00
				EFF(M/N)		99.98
8	6	5	1	1.104325	2	0.611806
			2	-0.073723	3	0.314188
			3	-0.019958	4	0.232544
			4	-0.008679	5	0.175592
			6	-0.001966	6	0.323946
				BIAS CORR		0.013666
				VAR CCEFF		0.004519
				EFFICIENCY		99.97
8	6	4	1	1.105320	2	0.675485
			2	-0.073852	4	0.326172
			3	-0.025445	5	0.176585
			5	-0.006022	6	0.325419
				BIAS CORR		0.014440
				VAR CCEFF		0.004523
				EFFICIENCY		99.87
8	6	3	1	1.108619	3	0.745077
			2	-0.090738	5	0.245490
			4	-0.017882	6	0.328799
				BIAS CORR		0.015809
				VAR CCEFF		0.004538
				EFFICIENCY		99.55
8	6	2	1	1.057995	4	0.638954
			3	-0.057995	6	0.384195
				BIAS CORR		0.018412
				VAR CCEFF		0.004602
				EFFICIENCY		98.16
8	6	1	1	1.000000	6	0.567989
				BIAS CORR		0.031250
				VAR CCEFF		0.004883



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
SAMPLE SIZES 2 TO 101

SHAPE PARAMETER = 0.5

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	92.52	85.57
8	5	5	1	1.104487	1	0.814962
			2	-0.073744	2	0.540798
			3	-0.019970	3	0.386893
			4	-0.006659	4	0.282789
			5	-0.004115	5	0.708612
				BIAS CORR	0.014246	
				VAR CCEFF	0.004520	0.869314
				EFFICIENCY	100.00	100.00
				EFF(M/N)	79.93	61.39
8	5	4	1	1.105320	2	0.752703
			2	-0.073852	3	0.388605
			3	-0.025445	4	0.289720
			5	-0.006022	5	0.710424
				BIAS CORR	0.014440	
				VAR CCEFF	0.004523	0.871332
				EFFICIENCY	99.92	99.77
8	5	3	1	1.108619	2	1.075981
			2	-0.090738	4	0.405982
			4	-0.017882	5	0.714664
				BIAS CORR	0.015809	
				VAR CCEFF	0.004538	0.875814
				EFFICIENCY	79.60	99.26
8	5	2	1	1.057995	2	0.925077
			3	-0.057995	5	0.807748
				BIAS CORR	0.018412	
				VAR CCEFF	0.004602	0.886106
				EFFICIENCY	98.21	98.10
8	5	1	1	1.000000	5	1.054081
				BIAS CORR	0.031250	
				VAR CCEFF	0.004883	0.946436
				EFFICIENCY	92.57	91.85
8	4	4	1	1.105901	1	1.055516
			2	-0.073928	2	0.703825
			3	-0.020073	3	0.507207

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
			4	-0.011899	4	1.506670
			BIAS CORR	0.015494		
			VAR CCEFF	0.004526		1.102177
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.80		48.42
8	4	3	1	1.108619	2	0.979027
			2	-0.090738	3	0.509824
			4	-0.017882	4	1.511927
			BIAS CORR	0.015809		
			VAR CCEFF	0.004538		1.105564
			EFFICIENCY	99.74		99.69
8	4	2	1	1.057995	2	1.410970
			3	-0.057995	4	1.674313
			BIAS CORR	0.018412		
			VAR CCEFF	0.004602		1.113292
			EFFICIENCY	98.34		99.00
8	4	1	1	1.000000	4	1.974601
			BIAS CORR	0.031250		
			VAR CCEFF	0.004883		1.153170
			EFFICIENCY	92.69		95.58
8	3	3	1	1.110086	1	1.490011
			2	-0.074475	2	1.001303
			3	-0.035612	3	3.346963
			BIAS CORR	0.017667		
			VAR CCEFF	0.004544		1.501735
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.39		35.54
8	3	2	1	1.057995	2	1.391815
			3	-0.057995	3	3.364670
			BIAS CORR	0.018412		
			VAR CCEFF	0.004602		1.508494
			EFFICIENCY	98.74		99.55
8	3	1	1	1.000000	3	3.958485
			BIAS CORR	0.031250		
			VAR CCEFF	0.004883		1.534769

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	93.07	97.85
8	2	2	1	1.124095	1	2.461318
			2	-0.124096	2	8.564470
				BIAS CORR	0.021753	
				VAR CCEFF	0.004606	2.334527
				EFFICIENCY	100.00	100.00
				EFF(M/N)	98.07	22.86
8	2	1	1	1.000000	2	9.278107
				BIAS CORR	0.031250	
				VAR CCEFF	0.004883	2.353034
				EFFICIENCY	94.33	99.21
8	1	1	1	1.000000	1	32.000000
				BIAS CORR	0.031250	
				VAR CCEFF	0.004883	5.000000
				EFFICIENCY	100.00	100.00
				EFF(M/N)	92.50	10.67
9	9	9	1	1.106419	1	0.481081
			2	-0.074109	2	0.321124
			3	-0.020650	3	0.230833
			4	-0.007154	4	0.172834
			5	-0.002767	5	0.132131
			6	-0.001118	6	0.101501
			7	-0.000441	7	0.076856
			8	-0.000152	8	0.055126
			9	-0.000028	9	0.028563
				BIAS CORR	0.009543	
				VAR CCEFF	0.002812	0.471590
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	100.00
9	9	8	1	1.106438	2	0.449617
			2	-0.074111	3	0.231478
			3	-0.020651	4	0.173142
			4	-0.007155	5	0.132310
			5	-0.002768	6	0.101617
			6	-0.001119	7	0.076935
			7	-0.000443	8	0.055180

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE			
4	4	7	1	1.106910	2	0.635952			
			2	-0.074120	4	0.245336			
			3	-0.020656	5	0.132722			
			4	-0.007158	6	0.101870			
			5	-0.002772	7	0.077102			
			6	-0.001519	8	0.055289			
			7	-0.000729	9	0.028643			
				BIAS CORR	0.004729				
				VAR COEFF	0.002812		0.472021		
				EFFICIENCY	100.00		99.91		
4	4	6	1	1.106699	2	0.635879			
			2	-0.074138	4	0.2451807			
			3	-0.020665	6	0.141316			
			4	-0.007166	7	0.077500			
			5	-0.003700	8	0.052529			
			6	-0.000960	9	0.020701			
				BIAS CORR	0.004957				
				VAR COEFF	0.002813		0.474701		
				EFFICIENCY	99.98		99.34		
			4	4	5	1	1.107057	2	0.551171
2	-0.074186	3				0.273520			
3	-0.020691	7				0.105249			
4	-0.004379	8				0.055909			
5	-0.002801	9				0.020900			
	BIAS CORR	0.010367							
	VAR COEFF	0.002814					0.477400		
	EFFICIENCY	99.96					98.60		
4	4	4				1	1.108159	4	0.478221
						2	-0.074321	6	0.216947
			3	-0.026364	8	0.073607			
			5	-0.007474	9	0.024400			
				BIAS CORR	0.011055				
				VAR COEFF	0.002817		0.485543		

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	99.83	97.13
9	9	3	1	1.111606	4	0.630644
			2	-0.091269	7	0.199570
			4	-0.020337	9	0.037087
				BIAS CORR		0.012707
				VAR CCEFF		0.002826
				EFFICIENCY	99.50	93.46
9	9	2	1	1.062089	6	0.482629
			3	-0.062089	9	0.045621
				BIAS CORR		0.014304
				VAR CCEFF		0.002866
				EFFICIENCY	98.15	95.73
9	9	1	1	1.000000	7	0.486399
				BIAS CORR		0.024691
				VAR CCEFF		0.003048
				EFFICIENCY	92.25	64.46
9	3	8	1	1.106438	1	0.543352
			2	-0.074111	2	0.362880
			3	-0.020651	3	0.261047
			4	-0.007155	4	0.195684
			5	-0.002769	5	0.149887
			6	-0.001119	6	0.115545
			7	-0.000447	7	0.088169
			8	-0.000191	8	0.107012
				BIAS CORR		0.009653
				VAR CCEFF		0.002812
				EFFICIENCY	100.00	100.00
				EFF (M/N)		88.76
9	8	7	1	1.106510	2	0.508067
			2	-0.074120	3	0.261805
			3	-0.020656	4	0.196056
			4	-0.007158	5	0.150108
			5	-0.002772	6	0.115691
			6	-0.001519	7	0.088270
			8	-0.000285	8	0.107127
				BIAS CORR		0.009726

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE			
				0.002812		0.531830			
				99.99		99.50			
9	8	6	1	1.106655	2	0.718991			
			2	-0.074138	4	0.277778			
			3	-0.020665	5	0.150611			
			4	-0.007166	6	0.116008			
			5	-0.003700	7	0.088483			
			7	-0.000986	8	0.107361			
				BIAS CORR	0.009957				
				VAR CCEFF	0.002813		0.532922		
		EFFICIENCY	99.98		99.69				
9	8	5	1	1.107053	2	0.723832			
			2	-0.074186	4	0.398817			
			3	-0.020691	6	0.160861			
			4	-0.009375	7	0.088954			
			6	-0.002801	8	0.107887			
				BIAS CORR	0.010369				
				VAR CCEFF	0.002814		0.535275		
					EFFICIENCY	99.94		99.25	
9	8	4	1	1.108159	2	0.624510			
			2	-0.074321	5	0.311095			
			3	-0.026364	7	0.120729			
			5	-0.007474	8	0.108829			
				BIAS CORR	0.011055				
				VAR CCEFF	0.002817		0.539400		
					EFFICIENCY	99.83		98.49	
			9	8	3	1	1.111606	4	0.543785
2	-0.091269	6				0.248600			
4	-0.020337	8				0.130208			
	BIAS CORR	0.012203							
	VAR CCEFF	0.002826					0.549436		
		EFFICIENCY				99.51		96.70	
9	8	2				1	1.062088	5	0.607111
						3	-0.062088	8	0.152371
				BIAS CORR	0.014304				
				VAR CCEFF	0.002866		0.574785		

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	98.13	92.43
9	8	1	1	1.000000	7	0.486399
				BIAS CORR	0.024691	
				VAR CCEFF	0.003048	0.731556
				EFFICIENCY	92.25	72.62
9	7	7	1	1.106519	1	0.627079
			2	-0.074121	2	0.419248
			3	-0.020656	3	0.302068
			4	-0.007159	4	0.226974
			5	-0.002772	5	0.174533
			6	-0.001123	6	0.135502
			7	-0.000687	7	0.258144
				BIAS CORR	0.009884	
				VAR CCEFF	0.002812	0.605935
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.99	77.32
9	7	6	1	1.106655	2	0.586905
			2	-0.074138	3	0.302995
			3	-0.020665	4	0.227443
			4	-0.007166	5	0.174918
			5	-0.003700	6	0.135695
			7	-0.000986	7	0.258473
				BIAS CORR	0.009957	
				VAR CCEFF	0.002813	0.610668
				EFFICIENCY	99.99	99.88
9	7	5	1	1.107053	2	0.831297
			2	-0.074186	4	0.322133
			3	-0.020691	5	0.175464
			4	-0.009375	6	0.136112
			6	-0.002801	7	0.259148
				BIAS CORR	0.010369	
				VAR CCEFF	0.002814	0.612132
				EFFICIENCY	99.95	99.64
9	7	4	1	1.108159	2	0.837583
			2	-0.074321	4	0.463513
			3	-0.026364	6	0.188524

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
			5	-0.007474	7	0.260720
			BIAS CORR	0.011055		
			VAR CCEFF	0.002817		0.615328
			EFFICIENCY	99.84		99.12
9	7	3	1	1.111606	2	0.724681
			2	-0.091269	5	0.363786
			4	-0.020337	7	0.295754
			BIAS CORR	0.012203		
			VAR CCEFF	0.002826		0.620979
			EFFICIENCY	99.51		98.22
9	7	2	1	1.062088	4	0.807503
			3	-0.062088	7	0.339553
			BIAS CORR	0.014304		
			VAR CCEFF	0.002866		0.637761
			EFFICIENCY	98.14		95.64
9	7	1	1	1.000000	7	0.486399
			BIAS CORR	0.024691		
			VAR CCEFF	0.003048		0.731556
			EFFICIENCY	92.26		83.38
9	6	6	1	1.106757	1	0.743381
			2	-0.074150	2	0.497310
			3	-0.020672	2	0.359690
			4	-0.007171	4	0.271353
			5	-0.002784	5	0.210014
			6	-0.001979	6	0.537028
			BIAS CORR	0.010283		
			VAR CCEFF	0.002813		0.716609
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.97		65.81
9	6	5	1	1.107053	2	0.696828
			2	-0.074186	3	0.360876
			3	-0.020691	4	0.271975
			4	-0.009375	5	0.210406
			6	-0.002801	6	0.537864
			BIAS CORR	0.010369		
			VAR CCEFF	0.002814		0.717639



TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	99.97	99.86
9	6	4	1	1.108159	2	0.988395
			2	-0.074321	4	0.384949
			3	-0.026364	5	0.211286
			5	-0.007474	6	0.539614
				BIAS CORR	0.011055	
				VAR CCEFF	0.002817	0.719717
				EFFICIENCY	99.87	99.57
9	6	3	1	1.111606	2	0.997122
			2	-0.091269	4	0.555863
			4	-0.020337	6	0.605754
				BIAS CORR	0.012203	
				VAR CCEFF	0.002826	0.724357
				EFFICIENCY	99.54	98.93
9	6	2	1	1.062088	4	0.745505
			3	-0.062088	6	0.616502
				BIAS CORR	0.014304	
				VAR CCEFF	0.002866	0.735736
				EFFICIENCY	98.16	97.40
9	6	1	1	1.000000	6	0.854741
				BIAS CORR	0.024691	
				VAR CCEFF	0.003048	0.795997
				EFFICIENCY	92.28	90.03
9	5	5	1	1.107389	1	0.914164
			2	-0.074227	2	0.614071
			3	-0.020713	3	0.445453
			4	-0.007204	4	0.338158
			5	-0.005244	5	1.062394
				BIAS CORR	0.010934	
				VAR CCEFF	0.002815	0.868630
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.91	54.29
9	5	4	1	1.108159	2	0.858999
			2	-0.074321	3	0.447076
			3	-0.026364	4	0.339051

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
			5	-0.007474	5	1.064509
			BIAS CORR	0.011055		
			VAR CCEFF	0.002817		0.870188
			EFFICIENCY	99.93		99.82
9	5	3	1	1.111606	2	1.221144
			2	-0.091269	4	0.479390
			4	-0.020337	5	1.069046
			BIAS CORR	0.012203		
			VAR CCEFF	0.002826		0.873380
			EFFICIENCY	99.60		99.46
9	5	2	1	1.062088	3	1.061589
			3	-0.062088	5	1.184565
			BIAS CORR	0.014304		
			VAR CCEFF	0.002866		0.880679
			EFFICIENCY	98.72		98.63
9	5	1	1	1.000000	5	1.487812
			BIAS CORR	0.024691		
			VAR CCEFF	0.003048		0.923003
			EFFICIENCY	92.34		94.11
9	4	4	1	1.109047	1	1.186240
			2	-0.074429	2	0.800415
			3	-0.020822	3	0.584353
			4	-0.013796	4	2.117041
			BIAS CORR	0.011997		
			VAR CCEFF	0.002819		1.101651
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.75		42.81
9	4	3	1	1.111606	2	1.118909
			2	-0.091269	3	0.586819
			4	-0.020337	4	2.122758
			BIAS CORR	0.012203		
			VAR CCEFF	0.002826		1.104277
			EFFICIENCY	99.76		99.76
9	4	2	1	1.062088	2	1.596340
			3	-0.062088	4	2.317240

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.014304	
				VAR COEFF	0.002866	1.109783
				EFFICIENCY	98.37	99.27
9	4	1	1	1.000000	4	2.674697
				BIAS CORR	0.024691	
				VAR COEFF	0.003048	1.139264
				EFFICIENCY	92.48	96.70
9	3	3	1	1.113677	1	1.677297
			2	-0.074994	2	1.139673
			3	-0.038682	3	4.495791
				BIAS CORR	0.013793	
				VAR COEFF	0.002832	1.501338
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.31	31.41
9	3	2	1	1.062088	2	1.591823
			3	-0.062088	2	4.514339
				BIAS CORR	0.014304	
				VAR COEFF	0.002866	1.506593
				EFFICIENCY	98.81	99.65
9	3	1	1	1.000000	2	5.208448
				BIAS CORR	0.024691	
				VAR COEFF	0.003048	1.526501
				EFFICIENCY	92.90	98.35
9	2	2	1	1.128562	1	2.774075
			2	-0.128562	2	11.126540
				BIAS CORR	0.017103	
				VAR COEFF	0.002872	2.334267
				EFFICIENCY	100.00	100.00
				EFF(M/N)	97.92	20.20
9	2	1	1	1.000000	2	11.944701
				BIAS CORR	0.024691	
				VAR COEFF	0.003048	2.348680
				EFFICIENCY	94.21	99.39
9	1	1	1	1.000000	1	40.500002

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.024691	
				VAR CCEFF	0.003048	5.000000
				EFFICIENCY	100.00	100.00
				EFF(M/N)	92.25	9.43
10	10	10	1	1.108474	1	0.474559
			2	-0.074416	2	0.319639
			3	-0.021205	3	0.232079
			4	-0.007570	4	0.175887
			5	-0.003054	5	0.136606
			6	-0.001312	6	0.107314
			7	-0.000573	7	0.084222
			8	-0.000240	8	0.064930
			9	-0.000087	9	0.047350
			10	-0.000017	10	0.025001
				BIAS CORR	0.007269	
				VAR CCEFF	0.001841	0.422357
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	100.00
10	10	9	1	1.108485	2	0.449456
			2	-0.074417	3	0.232615
			3	-0.021706	4	0.176138
			4	-0.007571	5	0.136750
			5	-0.003054	6	0.107408
			6	-0.001312	7	0.084287
			7	-0.000573	8	0.064979
			8	-0.000241	9	0.047383
			9	-0.000111	10	0.025017
				BIAS CORR	0.007336	
				VAR CCEFF	0.001841	0.422628
				EFFICIENCY	100.00	99.94
10	10	8	1	1.108521	2	0.631549
			2	-0.074421	4	0.251362
			3	-0.021208	5	0.137062
			4	-0.007573	6	0.107600
			5	-0.003056	7	0.084416
			6	-0.001314	8	0.065065
			7	-0.000788	9	0.047443
			9	-0.000163	10	0.025048

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.007377	
				VAR CCEFF	0.001841	0.423133
				EFFICIENCY	100.00	99.82
10	10	7	1	1.108593	2	0.634087
			2	-0.074429	4	0.355723
			3	-0.021212	6	0.151346
			4	-0.007576	7	0.084695
			5	-0.003059	8	0.065249
			6	-0.001780	9	0.047564
			8	-0.000537	10	0.025107
				BIAS CORR	0.007516	
				VAR CCEFF	0.001841	0.424093
				EFFICIENCY	99.99	99.59
10	10	6	1	1.108779	2	0.552235
			2	-0.074451	3	0.279292
			3	-0.021223	4	0.117526
			4	-0.007584	5	0.065570
			5	-0.004079	6	0.047773
			7	-0.001442	10	0.025210
				BIAS CORR	0.007753	
				VAR CCEFF	0.001841	0.425741
				EFFICIENCY	99.97	99.20
10	10	5	1	1.109242	3	0.707887
			2	-0.074504	6	0.261887
			3	-0.021251	8	0.089305
			4	-0.009914	9	0.048252
			6	-0.003573	10	0.025437
				BIAS CORR	0.008133	
				VAR CCEFF	0.001842	0.429325
				EFFICIENCY	99.93	98.38
10	10	4	1	1.110446	4	0.613320
			2	-0.074643	7	0.209289
			3	-0.027061	9	0.063412
			5	-0.008742	10	0.025863
				BIAS CORR	0.008732	
				VAR CCEFF	0.001844	0.435743
				EFFICIENCY	99.81	96.93

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
10	10	3	1	1.114024	5	0.545394
			2	-0.091626	6	0.169278
			4	-0.022397	10	0.032508
			BIAS CORR	0.009704		
			VAR CCEFF	0.001851		0.452546
			EFFICIENCY	99.47		93.33
10	10	2	1	1.065422	7	0.426309
			3	-0.065422	10	0.040265
			BIAS CORR	0.011434		
			VAR CCEFF	0.001876		0.498655
			EFFICIENCY	98.11		84.70
10	10	1	1	1.000000	8	0.427037
			BIAS CORR	0.020000		
			VAR CCEFF	0.002000		0.651857
			EFFICIENCY	92.05		64.79
10	9	9	1	1.108485	1	0.528755
			2	-0.074417	2	0.356270
			3	-0.021206	3	0.258803
			4	-0.007571	4	0.196282
			5	-0.003054	5	0.152614
			6	-0.001312	6	0.120107
			7	-0.000573	7	0.094577
			8	-0.000241	8	0.073450
			9	-0.000111	9	0.091052
			BIAS CORR	0.007336		
			VAR CCEFF	0.001841		0.469576
EFFICIENCY	100.00		100.00			
EFF(M/N)	100.00		89.93			
10	9	8	1	1.108521	2	0.500950
			2	-0.074421	3	0.259421
			3	-0.021208	4	0.196577
			4	-0.007573	5	0.152786
			5	-0.003056	6	0.120220
			6	-0.001314	7	0.094656
			7	-0.000788	8	0.073507
			8	-0.000463	9	0.091120
			9	-0.000163		

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.007377	
				VAR CCEFF	0.001841	0.470013
				EFFICIENCY	100.00	99.93
10	9	7	1	1.108593	2	0.704126
			2	-0.074429	4	0.280509
			3	-0.021212	5	0.153156
			4	-0.007575	6	0.120452
			5	-0.003059	7	0.094814
			6	-0.001780	8	0.073619
			8	-0.000537	9	0.091248
				BIAS CORR	0.007516	
				VAR CCEFF	0.001841	0.470641
				EFFICIENCY	99.99	99.79
10	9	6	1	1.108779	2	0.707155
			2	-0.074451	4	0.397234
			3	-0.021223	6	0.169382
			4	-0.007584	7	0.095153
			5	-0.004079	8	0.073847
			7	-0.001442	9	0.091459
				BIAS CORR	0.007753	
				VAR CCEFF	0.001841	0.471839
				EFFICIENCY	99.97	99.54
10	9	5	1	1.109242	3	0.616418
			2	-0.074504	5	0.312422
			3	-0.021251	7	0.131981
			4	-0.009914	8	0.074245
			6	-0.003573	9	0.091933
				BIAS CORR	0.008133	
				VAR CCEFF	0.001842	0.473901
				EFFICIENCY	99.93	99.11
10	9	4	1	1.110446	3	0.791280
			2	-0.074643	6	0.293772
			3	-0.027061	8	0.101039
			5	-0.008742	9	0.092917
				BIAS CORR	0.008732	
				VAR CCEFF	0.001844	0.478410
				EFFICIENCY	99.81	98.17

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	i	LOCATION	i	SCALE			
10	9	3	1	1.114074	4	0.687577			
			2	-0.041626	7	0.236237			
			4	-0.022357	9	0.110983			
			BIAS CORR		0.009704				
			VAR COEFF		0.001851		0.486559		
			EFFICIENCY		99.48		96.52		
			10	9	2	1	1.015422	6	0.525794
3	-0.065422	9				0.130582			
BIAS CORR		0.011434							
VAR COEFF		0.001976					0.511769		
EFFICIENCY		98.11					91.77		
10	9	1				1	1.000000	6	0.427037
						BIAS CORR		0.020000	
			VAR COEFF		0.002700		0.651957		
			EFFICIENCY		92.09		72.05		
10	8	11	1	1.108530	1	0.595249			
			2	-0.074422	2	0.404056			
			3	-0.021209	3	0.293809			
			4	-0.007573	4	0.223153			
			5	-0.003056	5	0.173888			
			6	-0.001314	6	0.137343			
			7	-0.000575	7	0.108862			
			8	-0.000381	8	0.212744			
			BIAS CORR		0.007477				
			VAR COEFF		0.001841		0.530206		
			EFFICIENCY		100.00		100.00		
			EFF(M/N)		99.90		79.66		
			10	8	7	1	1.108593	2	0.561082
2	-0.074422	3				0.294939			
3	-0.021212	4				0.223510			
4	-0.007576	5				0.174101			
5	-0.003059	6				0.137486			
6	-0.001780	7				0.108964			
8	-0.000337	8				0.212926			
BIAS CORR		0.007116							
VAR COEFF		0.001841					0.530639		



TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE			
				EFFICIENCY	99.99	99.92			
10	8	6	1	1.108779	2	0.798913			
			2	-0.074451	4	0.318865			
			3	-0.021223	5	0.174556			
			4	-0.007584	6	0.137777			
			5	-0.004079	7	0.105166			
			7	-0.001442	8	0.213275			
			BIAS CORR		0.007753				
			VAR CCEFF		0.001841		0.531449		
EFFICIENCY		99.98		99.77					
10	8	5	1	1.109242	2	0.802664			
			2	-0.074504	4	0.452071			
			3	-0.021251	6	0.193620			
			4	-0.009914	7	0.105398			
			6	-0.003573	8	0.213974			
			BIAS CORR		0.008133				
			VAR CCEFF		0.001842		0.533006		
			EFFICIENCY		99.93		99.47		
10	8	4	1	1.110446	3	0.700709			
			2	-0.074643	5	0.356672			
			3	-0.027061	7	0.151843			
			5	-0.008742	8	0.215187			
			BIAS CORR		0.008732				
			VAR CCEFF		0.001844		0.535691		
			EFFICIENCY		99.82		98.94		
			10	8	3	1	1.114024	3	0.901483
2	-0.091626	6				0.337048			
4	-0.022397	8				0.247446			
BIAS CORR		0.009704							
VAR CCEFF		0.001851					0.541629		
EFFICIENCY		99.48					97.89		
10	8	2				1	1.065422	5	0.675223
						3	-0.065422	8	0.281140
			BIAS CORR		0.011434				
			VAR CCEFF		0.001876		0.557181		
			EFFICIENCY		98.11		95.16		

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE	
10	8	1	1	1.000000	8	0.427037	
				BIAS CORR	0.020000		
				VAR CCEFF	0.002000		0.651857
				EFFICIENCY	92.05		81.34
10	7	7	1	1.108656	1	0.693035	
			2	-0.074437	2	0.467846	
			3	-0.021216	3	0.340754	
			4	-0.007579	4	0.259423	
			5	-0.003061	5	0.202880	
			6	-0.001320	6	0.161181	
			7	-0.001044	7	0.425534	
				BIAS CORR	0.007708		
				VAR CCEFF	0.001841		0.609189
				EFFICIENCY	100.00		100.00
	EFF(M/N)	99.98		69.33			
10	7	6	1	1.108779	2	0.657632	
			2	-0.074451	3	0.341645	
			3	-0.021223	4	0.259972	
			4	-0.007584	5	0.203155	
			5	-0.004079	6	0.161369	
			7	-0.001442	7	0.425967	
				BIAS CORR	0.007753		
				VAR CCEFF	0.001841		0.609768
				EFFICIENCY	99.99		99.90
10	7	5	1	1.109242	2	0.925620	
			2	-0.074504	4	0.370576	
			3	-0.021251	5	0.203737	
			4	-0.009914	6	0.161753	
			6	-0.003573	7	0.426803	
				BIAS CORR	0.008133		
				VAR CCEFF	0.001842		0.610858
				EFFICIENCY	99.94		99.73
10	7	4	1	1.110446	2	0.930485	
			2	-0.074643	4	0.526334	
			3	-0.027061	6	0.227059	
			5	-0.008742	7	0.428524	

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.008732	
				VAR CCEFF	0.001844	0.612981
				EFFICIENCY	99.83	99.38
10	7	3	1	1.114024	3	0.814165
			2	-0.091626	5	0.417350
			4	-0.022397	7	0.480307
				BIAS CORR	0.009704	
				VAR CCEFF	0.001851	0.616653
				EFFICIENCY	99.49	98.79
10	7	2	1	1.065422	4	0.903667
			3	-0.065422	7	0.532682
				BIAS CORR	0.011434	
				VAR CCEFF	0.001876	0.627917
				EFFICIENCY	98.12	97.02
10	7	1	1	1.000000	7	0.719905
				BIAS CORR	0.070000	
				VAR CCEFF	0.002000	0.689969
				EFFICIENCY	92.06	88.29
10	6	6	1	1.108968	1	0.822968
			2	-0.074473	2	0.556578
			3	-0.021234	3	0.406413
			4	-0.007593	4	0.310539
			5	-0.003074	5	0.244188
			6	-0.002594	6	0.799706
				BIAS CORR	0.008077	
				VAR CCEFF	0.001842	0.716044
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.95	58.98
10	6	5	1	1.109242	2	0.782096
			2	-0.074504	3	0.407550
			3	-0.021751	4	0.311135
			4	-0.009914	5	0.244564
			6	-0.003573	6	0.800701
				BIAS CORR	0.008133	
				VAR CCEFF	0.001842	0.716861
				EFFICIENCY	99.97	99.89

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE			
10	6	4	1	1.110446	2	1.102193			
			2	-0.074643	4	0.443364			
			3	-0.027061	5	0.245356			
			5	-0.008742	6	0.802656			
			BIAS CORR	0.008732					
			VAR CCEFF	0.001844		0.718412			
			EFFICIENCY	99.86		99.67			
10	6	3	1	1.114024	2	1.108914			
			2	-0.091626	4	0.63.447			
			4	-0.022397	6	0.884482			
			BIAS CORR	0.009704					
			VAR CCEFF	0.001851		0.721493			
			EFFICIENCY	99.52		99.24			
			10	6	2	1	1.065422	4	0.853807
3	-0.065422	6				0.896617			
BIAS CORR	0.011434								
VAR CCEFF	0.001876					0.730209			
EFFICIENCY	98.15					98.06			
10	6	1				1	1.000000	6	1.186700
						BIAS CORR	0.020000		
			VAR CCEFF	0.002000		0.772659			
			EFFICIENCY	92.09		92.67			
			10	5	5	1	1.109721	1	1.013584
						2	-0.074560	2	0.687390
						3	-0.021279	3	0.503849
4	-0.007626	4				0.387083			
5	-0.006255	5				1.483660			
BIAS CORR	0.008653								
VAR CCEFF	0.001843					0.868185			
EFFICIENCY	100.00		100.00						
	EFF(M/N)	99.88		48.65					
10	5	4	1	1.110446	2	0.965423			
			2	-0.074643	3	0.505399			
			3	-0.027061	4	0.387933			
			5	-0.008742	5	1.486023			

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.008732	
				VAR CCEFF	0.001844	0.869425
				EFFICIENCY	99.93	99.86
10	5	3	1	1.114024	2	1.363161
			2	-0.091626	4	0.552238
			4	-0.022397	5	1.490768
				BIAS CORR	0.009704	
				VAR CCEFF	0.001851	0.871812
				EFFICIENCY	99.59	99.58
10	5	2	1	1.065422	3	1.199347
			3	-0.065422	5	1.628165
				BIAS CORR	0.011434	
				VAR CCEFF	0.001876	0.877267
				EFFICIENCY	98.22	98.56
10	5	1	1	1.000000	5	1.988067
				BIAS CORR	0.020000	
				VAR CCEFF	0.002000	0.908733
				EFFICIENCY	92.16	95.54
10	4	4	1	1.111587	1	1.317098
			2	-0.074775	2	0.896945
			3	-0.021391	3	0.561195
			4	-0.015421	4	2.827896
				BIAS CORR	0.009561	
				VAR CCEFF	0.001846	1.101297
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.70	38.35
10	4	3	1	1.114024	2	1.258839
			2	-0.091626	3	0.663536
			4	-0.022397	4	2.834057
				BIAS CORR	0.009704	
				VAR CCEFF	0.001851	1.03392
				EFFICIENCY	99.77	99.71
10	4	2	1	1.065422	2	1.782781
			3	-0.065422	4	3.060251
				BIAS CORR	0.011434	

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY	0.001876 98.40	1.107511 99.44
10	4	1	1	1.000000	4	3.474763
				BIAS CORR VAR CCEFF EFFICIENCY	0.020000 0.002000 92.32	1.130226 97.44
10	3	3	1	1.116583	1	1.864638
			2	-0.075352	2	1.277853
			3	-0.041231	3	5.811539
				BIAS CORR VAR CCEFF EFFICIENCY EFF(M/N)	0.011066 0.001855 100.00 99.23	1.501064 100.00 28.14
10	3	2	1	1.065422	2	1.791833
			3	-0.065422	3	5.830755
				BIAS CORR VAR CCEFF EFFICIENCY	0.011434 0.001876 98.87	1.505266 99.72
10	3	1	1	1.000000	3	6.625089
				BIAS CORR VAR CCEFF EFFICIENCY	0.020000 0.002000 92.76	1.520863 98.70
10	2	2	1	1.132185	1	3.086779
			2	-0.132185	2	14.022032
				BIAS CORR VAR CCEFF EFFICIENCY EFF(M/N)	0.013799 0.001883 100.00 97.79	2.334083 100.00 18.10
10	2	1	1	1.000000	2	14.944650
				BIAS CORR VAR CCEFF EFFICIENCY	0.020000 0.002000 94.13	2.345624 99.51
10	1	1	1	1.000000	1	50.000001
				BIAS CORR	0.020000	

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF	0.002000	5.000000
				EFFICIENCY	100.00	100.00
				EFF(M/N)	92.05	8.45

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE	
2	2	2	1	1.034256	1	0.563998	
			2	-0.034256	2	0.384282	
				BIAS CORR	0.423305		
				VAR CCEFF	0.404952		0.907168
				EFFICIENCY	100.00		100.00
		EFF(M/N)	100.00		100.00		
2	2	1	1	1.000000	2	0.523897	
				BIAS CORR	0.472506		
				VAR CCEFF	0.408621		1.029009
				EFFICIENCY	99.10		88.16
2	1	1	1	1.000000	1	2.116377	
				BIAS CORR	0.472506		
				VAR CCEFF	0.408621		1.830234
				EFFICIENCY	100.00		100.00
				EFF(M/N)	99.10		49.57
3	3	3	1	1.054729	1	0.427106	
			2	-0.045446	2	0.334953	
			3	-0.009283	3	0.243654	
				BIAS CORR	0.228279		
				VAR CCEFF	0.176633		0.601979
				EFFICIENCY	100.00		100.00
		EFF(M/N)	100.00		100.00		
3	3	2	1	1.056734	2	0.448360	
			2	-0.056734	2	0.251567	
				BIAS CORR	0.241596		
				VAR CCEFF	0.136927		0.620624
				EFFICIENCY	99.79		97.00
3	3	1	1	1.000000	3	0.411593	
				BIAS CORR	0.275181		
				VAR CCEFF	0.138594		0.754278
				EFFICIENCY	98.59		79.81
3	2	2	1	1.056734	1	0.653650	
			2	-0.056734	2	0.945769	
				BIAS CORR	0.241596		
				VAR CCEFF	0.136927		0.906488



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		66.41
3	2	1	1	1.000000	2	1.153197
				BIAS CORR		0.275181
				VAR CCEFF		0.138594
				EFFICIENCY		98.80
3	1	1	1	1.000000	1	3.633971
				BIAS CORR		0.275181
				VAR CCEFF		0.138594
				EFFICIENCY		100.00
				EFF(M/N)		98.59
4	4	4	1	1.065415	1	0.349549
			2	-0.047097	2	0.282828
			3	-0.014686	3	0.234313
			4	-0.003631	4	0.176706
				BIAS CORR		0.146552
				VAR CCEFF		0.063231
				EFFICIENCY		100.00
				EFF(M/N)		100.00
4	4	3	1	1.066167	2	0.386603
			2	-0.047204	3	0.237383
			3	-0.018962	4	0.178826
				BIAS CORR		0.151836
				VAR CCEFF		0.063278
				EFFICIENCY		99.97
4	4	2	1	1.069392	3	0.385881
			2	-0.069392	4	0.189542
				BIAS CORR		0.123180
				VAR CCEFF		0.063488
				EFFICIENCY		99.59
4	4	1	1	1.000000	4	0.352022
				BIAS CORR		0.187514
				VAR CCEFF		0.064354
				EFFICIENCY		98.25

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
4	3	3	1	1.066167	1	0.470581
			2	-0.047204	2	0.382540
			3	-0.018962	3	0.590141
			BIAS CORR	0.151836		
			VAR CCEFF	0.063278		0.601491
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.92		74.84
4	3	2	1	1.069392	2	0.524448
			2	-0.069392	2	0.600063
			BIAS CORR	0.163180		
			VAR CCEFF	0.063488		0.611033
			EFFICIENCY	99.67		98.44
			BIAS CORR	0.187514		
			VAR CCEFF	0.064354		0.660209
EFFICIENCY	98.33		91.11			
4	2	2	1	1.069392	1	0.723308
			2	-0.069392	2	1.606091
			BIAS CORR	0.163180		
			VAR CCEFF	0.063488		0.906291
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.59		49.67
			BIAS CORR	0.187514		
VAR CCEFF	0.064354		0.929040			
EFFICIENCY	98.65		97.55			
4	1	1	1	1.000000	2	1.858106
			BIAS CORR	0.187514		
			VAR CCEFF	0.064354		0.929040
			EFFICIENCY	98.65		97.55
			BIAS CORR	0.187514		
			VAR CCEFF	0.064354		1.830234
			EFFICIENCY	100.00		100.00
EFF(M/N)	98.25		24.60			
5	5	5	1	1.071787	1	0.295046
			2	-0.047229	2	0.245812
			3	-0.016537	3	0.209316
			4	-0.006272	4	0.178635

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
			5	-0.001749	5	0.137918
			BIAS CORR	0.103643		
			VAR CCEFF	0.034792		0.359435
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
5	5	4	1	1.072129	2	0.341658
			2	-0.047264	3	0.210736
			3	-0.016570	4	0.179705
			4	-0.008296	5	0.138701
			BIAS CORR	0.106227		
			VAR CCEFF	0.034804		0.361434
			EFFICIENCY	99.97		99.45
5	5	3	1	1.073264	2	0.520832
			2	-0.060663	4	0.238377
			4	-0.012601	5	0.141341
			BIAS CORR	0.107763		
			VAR CCEFF	0.034844		0.367986
			EFFICIENCY	99.85		97.68
5	5	2	1	1.040524	2	0.552832
			3	-0.040524	5	0.179702
			BIAS CORR	0.113509		
			VAR CCEFF	0.034970		0.388518
			EFFICIENCY	99.49		92.51
5	5	1	1	1.000000	4	0.676997
			BIAS CORR	0.139258		
			VAR CCEFF	0.035493		0.515057
			EFFICIENCY	98.02		69.79
5	4	4	1	1.072129	1	0.375819
			2	-0.047264	2	0.309514
			3	-0.016570	3	0.264609
			4	-0.008296	4	0.423058
			BIAS CORR	0.106227		
			VAR CCEFF	0.034804		0.449844
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.97		79.90

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE		
5	4	3	1	1.073764	2	0.430597		
			2	-0.060663	3	0.266791		
			4	-0.012601	4	0.426151		
			BIAS CORR		0.107763			
			VAR COEFF		0.034844	0.453005		
		EFFICIENCY	99.89	99.30				
5	4	2	1	1.040524	2	0.660740		
			3	-0.040524	4	0.506775		
			BIAS CORR		0.113509			
			VAR COEFF		0.034970	0.463501		
					EFFICIENCY	99.57	97.04	
5	4	1	1	1.000000	4	0.676997		
			BIAS CORR		0.139258			
			VAR COEFF		0.035493	0.515057		
					EFFICIENCY	98.06	87.34	
5	3	3	1	1.073398	1	0.507477		
			2	-0.047411	2	0.419718		
			3	-0.025989	3	0.993496		
			BIAS CORR		0.111306			
			VAR COEFF		0.034844	0.601325		
		EFFICIENCY	100.00	100.00				
		EFF (M/N)	99.84	59.77				
5	3	2	1	1.040524	2	0.584730		
			3	-0.040524	3	1.003664		
			BIAS CORR		0.113509			
			VAR COEFF		0.034970	0.607103		
					EFFICIENCY	99.65	99.05	
5	3	1	1	1.000000	2	1.290106		
			BIAS CORR		0.139258			
			VAR COEFF		0.035493	0.632731		
					EFFICIENCY	98.18	95.04	
5	2	2	1	1.077386	1	0.781505		
			2	-0.077386	2	2.341869		
			BIAS CORR		0.120586			
			VAR COEFF		0.034986	0.906208		

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.44	39.66
5	2	1	1	1.000000	2	2.627861
				BIAS CORR	0.139258	
				VAR CCEFF	0.035493	0.919988
				EFFICIENCY	98.57	98.50
5	1	1	1	1.000000	1	7.180915
				BIAS CORR	0.139258	
				VAR CCEFF	0.035493	1.830233
				EFFICIENCY	100.00	100.00
				EFF(M/N)	98.02	19.64
6	6	6	1	1.075963	1	0.263225
			2	-0.047003	2	0.218494
			3	-0.017398	3	0.188635
			4	-0.007427	4	0.165134
			5	-0.003172	5	0.143602
			6	-0.000963	6	0.112741
				BIAS CORR	0.077969	
				VAR CCEFF	0.021359	0.299099
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	100.00
6	6	5	1	1.076141	2	0.307354
			2	-0.047018	2	0.189407
			3	-0.017410	4	0.165708
			4	-0.007440	5	0.144066
			5	-0.004274	6	0.113092
				BIAS CORR	0.079411	
				VAR CCEFF	0.021363	0.300016
				EFFICIENCY	99.98	99.69
6	6	4	1	1.076564	2	0.450326
			2	-0.047062	4	0.226491
			3	-0.023261	5	0.145279
			5	-0.006241	6	0.113983
				BIAS CORR	0.080107	
				VAR CCEFF	0.021371	0.302311
				EFFICIENCY	99.94	98.94

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	i	LOCATION	i	SCALE
6	6	3	1	1.077652	3	0.468378
			2	-0.059965	5	0.192065
			4	-0.017686	6	0.116305
			BIAS CORR	0.082873		
			VAR CCEFF	0.021354		0.308236
			EFFICIENCY	99.83		97.04
6	6	2	1	1.047083	4	0.489606
			3	-0.047083	6	0.148810
			BIAS CORR	0.087860		
			VAR CCEFF	0.021473		0.327379
			EFFICIENCY	99.47		91.36
			6	6	1	1.000000
		BIAS CORR	0.109206			
		VAR CCEFF	0.021827		0.427750	
		EFFICIENCY	97.84		69.92	
6	5	5	1	1.076141	1	0.316912
			2	-0.047018	2	0.263303
			3	-0.017410	3	0.227704
			4	-0.007440	4	0.200034
			5	-0.004274	5	0.327283
			BIAS CORR	0.079411		
VAR CCEFF	0.021363		0.359194			
EFFICIENCY	100.00		100.00			
EFF(M/N)	99.98		83.27			
6	5	4	1	1.076564	2	0.370523
			2	-0.047062	3	0.228781
			3	-0.023261	4	0.200857
			5	-0.006241	5	0.328530
			BIAS CORR	0.080107		
			VAR CCEFF	0.021371		0.360524
EFFICIENCY	99.96		99.63			
6	5	3	1	1.077652	2	0.544101
			2	-0.059965	4	0.274731
			4	-0.017686	5	0.331758
			BIAS CORR	0.082873		

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY	0.021394 99.85	0.362877 98.71
6	5	2	1	1.047083	3	0.569366
			3	-0.047083	5	0.394640
				BIAS CORR		
				VAR CCEFF		0.372614
				EFFICIENCY		96.40
6	5	1	1	1.000000	5	0.580618
				BIAS CORR		
				VAR CCEFF		0.427750
				EFFICIENCY		83.97
6	4	4	1	1.076739	1	0.395085
			2	-0.047072	2	0.332257
			3	-0.017453	3	0.288330
			4	-0.012213	4	0.707406
				BIAS CORR		
				VAR CCEFF		0.449717
				EFFICIENCY		100.00
				EFF(M/N)		66.51
6	4	3	1	1.077652	2	0.467743
			2	-0.059965	3	0.289980
			4	-0.017686	4	0.710881
				BIAS CORR		
				VAR CCEFF		0.451829
				EFFICIENCY		99.53
6	4	2	1	1.047083	2	0.689548
			3	-0.047083	4	0.811120
				BIAS CORR		
				VAR CCEFF		0.457230
				EFFICIENCY		98.36
6	4	1	1	1.000000	4	1.013453
				BIAS CORR		
				VAR CCEFF		0.485736
				EFFICIENCY		92.58

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE		
6	3	3	1	1.078363	1	0.539735		
			2	-0.047234	2	0.450986		
			3	-0.031129	3	1.440680		
					BIAS CORR	0.086576		
					VAR CCEFF	0.021409		0.601247
					EFFICIENCY	100.00		100.00
					EFF(M/N)	99.77		49.75
6	3	2	1	1.047083	2	0.635329		
			3	-0.047083	3	1.450583		
				BIAS CORR	0.087860			
			VAR CCEFF	0.021473		0.605117		
			EFFICIENCY	99.70		99.36		
6	3	1	1	1.000000	3	1.777546		
				BIAS CORR	0.109206			
				VAR CCEFF	0.021827		0.620881	
				EFFICIENCY	98.08		96.84	
6	2	2	1	1.082874	1	0.632070		
			2	-0.082874	2	3.140143		
				BIAS CORR	0.094262			
			VAR CCEFF	0.021504		0.906165		
			EFFICIENCY	100.00		100.00		
			EFF(M/N)	99.33		33.01		
6	2	1	1	1.000000	2	3.453996		
				BIAS CORR	0.109206			
				VAR CCEFF	0.021827		0.915396	
				EFFICIENCY	98.52		98.99	
6	1	1	1	1.000000	1	9.157033		
				BIAS CORR	0.109206			
				VAR CCEFF	0.021827		1.830233	
				EFFICIENCY	100.00		100.00	
				EFF(M/N)	97.86		16.34	
7	7	7	1	1.078838	1	0.236321		
			2	-0.046699	2	0.197488		
			3	-0.017854	3	0.171951		
			4	-0.008075	4	0.152456		



TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
			5	-0.003879	5	0.135808
			6	-0.001798	6	0.119654
			7	-0.000582	7	0.095137
				0.061228		
				0.014141		0.256090
				100.00		100.00
				100.00		100.00
7	7	6	1	1.078990	2	0.280256
			2	-0.046706	3	0.172422
			3	-0.017859	4	0.152798
			4	-0.008080	5	0.136084
			5	-0.003886	6	0.119886
			6	-0.002459	7	0.095316
				0.062109		
				0.014142		0.256567
				99.99		99.81
7	7	5	1	1.079181	2	0.401970
			2	-0.046723	4	0.212869
			3	-0.017872	5	0.136659
			4	-0.011087	6	0.120389
			6	-0.003499	7	0.095659
				0.062479		
				0.014145		0.257576
				99.97		99.42
7	7	4	1	1.079645	3	0.419673
			2	-0.046762	5	0.187309
			3	-0.023699	6	0.121630
			5	-0.009184	7	0.096642
				0.064046		
				0.014151		0.260056
				99.93		98.47
7	7	3	1	1.080877	4	0.430477
			2	-0.059315	6	0.162607
			4	-0.021562	7	0.099142
				0.066640		
				0.014168		0.266575
				99.81		96.07

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE			
7	7	2	1	1.051834	5	0.444730			
			3	-0.051834	7	0.127646			
			BIAS CORR	0.070928					
			VAR CCEFF	0.014221		0.284835			
			EFFICIENCY	99.44		89.91			
7	7	1	1	1.000000	6	0.515482			
			BIAS CORR	0.088917					
			VAR CCEFF	0.014470		0.365264			
			EFFICIENCY	97.72		69.35			
7	6	6	1	1.078990	1	0.276301			
			2	-0.046706	2	0.231022			
			3	-0.017859	3	0.201311			
			4	-0.008080	4	0.178760			
			5	-0.003886	5	0.155742			
			6	-0.002459	6	0.265658			
			BIAS CORR	0.062109					
			VAR CCEFF	0.014142		0.298920			
			EFFICIENCY	100.00		100.00			
			EFF(M/N)	99.99		85.67			
7	6	5	1	1.079181	2	0.327896			
			2	-0.046723	3	0.201927			
			3	-0.017872	4	0.179218			
			4	-0.011087	5	0.160117			
			6	-0.003499	6	0.266251			
			BIAS CORR	0.062479					
			VAR CCEFF	0.014145		0.299573			
			EFFICIENCY	99.98		99.78			
			7	6	4	1	1.079645	2	0.470760
						2	-0.046762	4	0.249741
3	-0.023699	5				0.160951			
5	-0.009184	6				0.267529			
BIAS CORR	0.064046								
VAR CCEFF	0.014151					0.300957			
EFFICIENCY	99.94					99.32			
7	6	3	1	1.080877	3	0.492710			

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
			2	-0.059315	5	0.220732
			4	-0.021562	6	0.270690
				BIAS CORR		0.066640
				VAR CCEFF		0.014168
				EFFICIENCY		99.82
7	6	2	1	1.051834	4	0.508467
			3	-0.051834	6	0.323783
				BIAS CORR		0.070928
				VAR CCEFF		0.014221
				EFFICIENCY		99.45
7	6	1	1	1.000000	6	0.515482
				BIAS CORR		0.088917
				VAR CCEFF		0.014470
				EFFICIENCY		97.73
7	5	5	1	1.079308	1	0.333144
			2	-0.046730	2	0.278827
			3	-0.017877	3	0.243413
			4	-0.008098	4	0.216773
			5	-0.006603	5	0.544307
				BIAS CORR		0.063680
				VAR CCEFF		0.014147
				EFFICIENCY		100.00
				EFF(M/A)		71.32
7	5	4	1	1.079645	2	0.395814
			2	-0.046762	3	0.244269
			3	-0.023699	4	0.217428
			5	-0.009184	5	0.545794
				BIAS CORR		0.064046
				VAR CCEFF		0.014151
				EFFICIENCY		99.97
7	5	3	1	1.080877	2	0.569204
			2	-0.059315	4	0.303047
			4	-0.021562	5	0.549046
				BIAS CORR		0.066640
				VAR CCEFF		0.014168
				EFFICIENCY		99.85

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE	
7	5	2	1	1.051834	2	0.598181	
			3	-0.051834	5	0.627389	
			BIAS CORR		0.070928		
			VAR CCEFF		0.014221		0.367098
		EFFICIENCY	99.48		97.82		
7	5	1	1	1.000000	5	0.848727	
			BIAS CORR		0.088917		
			VAR CCEFF		0.014470		0.397911
			EFFICIENCY		97.76		90.25
7	4	4	1	1.080093	1	0.419985	
			2	-0.046796	2	0.352230	
			3	-0.017925	3	0.308351	
			4	-0.015373	4	1.021194	
			BIAS CORR		0.066173		
			VAR CCEFF		0.014157		0.449654
		EFFICIENCY	100.00		100.00		
		EFF(M/N)	99.88		56.95		
7	4	3	1	1.080877	2	0.500070	
			2	-0.059315	3	0.309655	
			4	-0.021562	4	1.024794	
			BIAS CORR		0.066640		
		VAR CCEFF	0.014168		0.451164		
		EFFICIENCY	99.92		99.67		
7	4	2	1	1.051834	2	0.721013	
			3	-0.051834	4	1.139612	
			BIAS CORR		0.070928		
			VAR CCEFF		0.014221		0.454428
		EFFICIENCY	99.55		98.95		
7	4	1	1	1.000000	4	1.367279	
			BIAS CORR		0.088917		
			VAR CCEFF		0.014470		0.472720
			EFFICIENCY		97.84		95.12
7	3	3	1	1.081977	1	0.568568	
			2	-0.046964	2	0.478301	

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
			3	-0.035014	3	1.924418
			BIAS CORR	0.070095		
			VAR CCEFF	0.014183		0.601205
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.70		42.60
7	3	2	1	1.051834	2	0.675297
			3	-0.051834	3	1.933908
			BIAS CORR	0.070928		
			VAR CCEFF	0.014221		0.603975
			EFFICIENCY	99.73		99.54
7	3	1	1	1.000000	3	2.293743
			BIAS CORR	0.088917		
			VAR CCEFF	0.014470		0.614665
			EFFICIENCY	98.02		97.81
7	2	2	1	1.086867	1	0.877112
			2	-0.096867	2	3.992420
			BIAS CORR	0.076579		
			VAR CCEFF	0.014250		0.906140
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.23		28.26
7	2	1	1	1.000000	2	4.330126
			BIAS CORR	0.088917		
			VAR CCEFF	0.014470		0.912752
			EFFICIENCY	98.48		99.28
7	1	1	1	1.000000	1	11.246494
			BIAS CORR	0.088917		
			VAR CCEFF	0.014470		1.830233
			EFFICIENCY	100.00		100.00
			EFF(M/N)	97.72		13.99
8	8	8	1	1.081038	1	0.215269
			2	-0.046397	2	0.180789
			3	-0.018115	3	0.158328
			4	-0.008481	4	0.141478
			5	-0.004314	5	0.127555
			6	-0.002249	6	0.115003

TABLE

COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
			7	-0.001106	7	0.102309
			8	-0.000377	8	0.082165
			BIAS CORR	0.049622		
			VAR CCEFF	90		0.223885
			EFFICIENCY			100.00
			EFF(M/N)			100.00
8	8	7	1	1.081102	2	0.258265
			2	-0.046401	3	0.158640
			3	-0.018117	4	0.141699
			4	-0.008483	5	0.127729
			5	-0.004316	6	0.115152
			6	-0.002253	7	0.102437
			7	-0.001531	8	0.082265
BIAS CORR	0.050201					
VAR CCEFF	0.009894		0.224157			
EFFICIENCY	99.99		99.88			
8	8	6	1	1.081200	2	0.365536
			2	-0.046408	4	0.199961
			3	-0.018123	5	0.128077
			4	-0.008488	6	0.115445
			5	-0.006041	7	0.102681
			6	-0.002140	8	0.082456
			BIAS CORR	0.050418		
VAR CCEFF	0.009895		0.224670			
EFFICIENCY	99.98		99.65			
8	8	5	1	1.081439	3	0.384369
			2	-0.046426	5	0.178028
			3	-0.018133	6	0.116145
			4	-0.011552	7	0.103282
			5	-0.005327	8	0.082922
			BIAS CORR	0.051394		
			VAR CCEFF	0.009898		0.225920
EFFICIENCY	99.96		99.10			
8	8	4	1	1.082000	3	0.389050
			2	-0.046468	5	0.270732
			3	-0.023935	7	0.136090
			4	-0.011597	8	0.083885

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.052938	
				VAR CCEFF	0.009903	0.228406
				EFFICIENCY	99.91	98.02
8	8	3	1	1.083342	4	0.525383
			2	-0.058751	7	0.166494
			4	-0.024591	8	0.086500
				BIAS CORR	0.055286	
				VAR CCEFF	0.009916	0.235301
				EFFICIENCY	99.78	95.15
8	8	2	1	1.055428	5	0.567274
			3	-0.055428	8	0.125474
				BIAS CORR	0.059003	
				VAR CCEFF	0.009953	0.252768
				EFFICIENCY	99.40	88.57
8	8	1	1	1.000000	7	0.468228
				BIAS CORR	0.074415	
				VAR CCEFF	0.010135	0.327224
				EFFICIENCY	97.62	68.42
8	7	7	1	1.091102	1	0.246387
			2	-0.046401	2	0.206981
			3	-0.018117	3	0.181361
			4	-0.008483	4	0.162170
			5	-0.004316	5	0.146420
			6	-0.002253	6	0.132391
			7	-0.001531	7	0.222885
				BIAS CORR	0.050201	
				VAR CCEFF	0.009854	0.255953
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.99	87.47
8	7	6	1	1.041700	2	0.295709
			2	-0.046408	3	0.181750
			3	-0.018123	4	0.162473
			4	-0.008488	5	0.146645
			5	-0.006041	6	0.132587
			7	-0.002140	7	0.223200
				BIAS CORR	0.050418	

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 7 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF EFFICIENCY		0.256309 99.86
8	7	5	1	1.081439	2	0.418749
			2	-0.046426	4	0.225280
			3	-0.018133	5	0.147095
			4	-0.011552	6	0.132968
			6	-0.005327	7	0.222902
				BIAS CORR VAR COEFF EFFICIENCY		0.051354 0.009858 99.97
8	7	4	1	1.042000	2	0.440887
			2	-0.046469	3	0.205470
			3	-0.023335	4	0.132885
			4	-0.011547	5	0.225275
				BIAS CORR VAR COEFF EFFICIENCY		0.252938 0.009903 99.91
8	7	3	1	1.003362	2	0.447326
			2	-0.054751	3	0.311957
			4	-0.024991	4	0.264757
				BIAS CORR VAR COEFF EFFICIENCY		0.052286 0.009916 99.79
8	7	2	1	1.055428	4	0.607437
			3	-0.055428	5	0.304651
				BIAS CORR VAR COEFF EFFICIENCY		0.059001 0.009991 99.61
8	7	1	1	1.000000	7	0.468225
				BIAS CORR VAR COEFF EFFICIENCY		0.074419 0.010135 97.63
8	6	6	1	1.081287	1	0.288367
			2	-0.046413	2	0.242430
			3	-0.018125	3	0.212564



TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE			
			4	-0.008491	4	0.190417			
			5	-0.004325	5	0.172342			
			6	-0.003932	6	0.439866			
			BIAS CORR		0.051196				
			VAR COEFF		0.009896		0.298844		
			EFFICIENCY		100.00		100.00		
			EFF(M/N)		99.98		74.92		
8	6	5	1	1.081439	2	0.346366			
			2	-0.046426	3	0.213072			
			3	-0.018133	4	0.190755			
			4	-0.011552	5	0.172649			
			6	-0.005327	6	0.440604			
			BIAS CORR		0.051354				
			VAR COEFF		0.009899		0.299333		
EFFICIENCY		99.99		99.84					
8	6	4	1	1.082000	2	0.440837			
			2	-0.046469	4	0.269265			
			3	-0.023935	5	0.173258			
			5	-0.011597	6	0.442025			
			BIAS CORR		0.052938				
			VAR COEFF		0.009903		0.300257		
			EFFICIENCY		99.93		99.53		
8	6	3	1	1.083342	3	0.517786			
			2	-0.058751	5	0.242128			
			4	-0.024591	6	0.445443			
			BIAS CORR		0.052886				
			VAR COEFF		0.009916		0.302573		
			EFFICIENCY		99.80		98.78		
			8	6	2	1	1.055428	4	0.530507
3	-0.055428	6				0.511158			
BIAS CORR		0.054004							
VAR COEFF		0.009953					0.300067		
EFFICIENCY		99.43					97.01		
8	6	1				1	1.000000	6	0.734320
						BIAS CORR		0.074415	
			VAR COEFF		0.010135		0.335463		

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		88.03
				97.64		
8	5	5	1	1.081713	1	0.346016
			2	-0.046443	2	0.292783
			3	-0.018146	3	0.257265
			4	-0.008511	4	0.230720
			5	-0.008613	5	0.782821
				BIAS CORR		
				0.052715		
				VAR COEFF		0.359045
				0.009900		
				EFFICIENCY		100.00
				99.94		62.36
				EFF(M/N)		
8	5	4	1	1.082000	2	0.418357
			2	-0.046468	3	0.257969
			3	-0.023935	4	0.231458
			5	-0.011597	5	0.784429
				BIAS CORR		
				0.052938		
				VAR COEFF		0.359757
				0.009903		
				EFFICIENCY		99.80
				99.97		
8	5	3	1	1.083342	2	0.593669
			2	-0.058751	4	0.326685
			4	-0.024591	5	0.787557
				BIAS CORR		
				0.055286		
				VAR COEFF		0.361113
				0.009916		
				EFFICIENCY		99.43
				99.84		
8	5	2	1	1.055428	3	0.628179
			3	-0.055428	5	0.877139
				BIAS CORR		
				0.059003		
				VAR COEFF		0.364440
				0.009953		
				EFFICIENCY		98.57
				99.47		
8	5	1	1	1.000000	5	1.126506
				BIAS CORR		
				0.074413		
				VAR COEFF		0.384380
				0.010135		
				EFFICIENCY		93.41
				97.68		
8	4	4	1	1.082642	1	0.435005
			2	-0.046519	2	0.370162
			3	-0.018195	3	0.325899

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
			4	-0.017932	4	1.359662
			BIAS CORR	0.054981		
			VAR CCEFF	0.009909		0.449617
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.85		49.79
8	4	3	1	1.083342	2	0.528852
			2	-0.058751	3	0.326962
			4	-0.024591	4	1.363267
			BIAS CORR	0.055266		
			VAR CCEFF	0.009916		0.450750
			EFFICIENCY	99.93		99.75
8	4	2	1	1.055428	2	0.751848
			3	-0.055428	4	1.489817
			BIAS CORR	0.059003		
			VAR CCEFF	0.009953		0.452931
			EFFICIENCY	99.56		99.27
8	4	1	1	1.000000	4	1.738761
			BIAS CORR	0.074415		
			VAR CCEFF	0.010135		0.465724
			EFFICIENCY	97.77		96.54
8	3	3	1	1.084724	1	0.594758
			2	-0.046685	2	0.502737
			3	-0.078039	3	2.435856
			BIAS CORR	0.058422		
			VAR CCEFF	0.009929		0.601179
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.65		37.24
8	3	2	1	1.055428	2	0.718407
			3	-0.055428	3	2.448544
			BIAS CORR	0.059003		
			VAR CCEFF	0.009953		0.603260
			EFFICIENCY	99.75		99.66
8	3	1	1	1.000000	3	2.837069
			BIAS CORR	0.074415		
			VAR CCEFF	0.010135		0.610992

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	97.96	98.39
8	2	2	1	1.089900	1	0.917933
			2	-0.089900	2	4.892619
				BIAS CORR		0.063985
				VAR CCEFF		0.009978
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.16	24.71
8	2	1	1	1.000000	2	5.251326
				BIAS CORR		0.074415
				VAR CCEFF		0.010135
				EFFICIENCY	98.45	99.45
8	1	1	1	1.000000	1	13.438158
				BIAS CORR		0.074415
				VAR CCEFF		0.010135
				EFFICIENCY	100.00	100.00
				EFF(M/N)	97.62	12.23
9	9	9	1	1.082680	1	0.198281
			2	-0.046119	2	0.167158
			3	-0.018270	3	0.147013
			4	-0.008757	4	0.132071
			5	-0.004601	5	0.119956
			6	-0.002548	6	0.109406
			7	-0.001403	7	0.099518
			8	-0.000725	8	0.089199
			9	-0.000257	9	0.072224
				BIAS CORR		0.041204
				VAR CCEFF		0.007221
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	100.00
9	9	8	1	1.082721	2	0.240027
			2	-0.046122	3	0.147293
			3	-0.018271	4	0.132226
			4	-0.008758	5	0.120070
			5	-0.004602	6	0.109508
			6	-0.002550	7	0.099604
			7	-0.001405	8	0.089276

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	J	SCALE
			8	-0.001013	9	0.072285
			BIAS CORR	0.041603		
			VAR CCEFF	0.007221		0.199036
			EFFICIENCY	100.00		99.92
9	9	7	1	1.082777	2	0.336646
			2	-0.046126	4	0.188309
			3	-0.018273	5	0.120277
			4	-0.008760	6	0.109699
			5	-0.004604	7	0.099754
			6	-0.003617	8	0.089410
			8	-0.001396	9	0.072390
			BIAS CORR	0.041740		
			VAR CCEFF	0.007221		0.199324
			EFFICIENCY	99.99		99.77
9	9	6	1	1.082905	2	0.337891
			2	-0.046137	4	0.269658
			3	-0.018278	6	0.152717
			4	-0.011844	7	0.100087
			6	-0.005248	8	0.085697
			8	-0.001397	9	0.072612
			BIAS CORR	0.041860		
			VAR CCEFF	0.007222		0.199923
			EFFICIENCY	99.98		99.47
9	9	5	1	1.083167	2	0.358520
			2	-0.046153	5	0.248424
			3	-0.024021	7	0.136561
			5	-0.009648	8	0.090221
			7	-0.003345	9	0.073023
			BIAS CORR	0.042533		
			VAR CCEFF	0.007224		0.201025
			EFFICIENCY	99.95		98.93
9	9	4	1	1.083836	2	0.464502
			2	-0.046207	6	0.271154
			3	-0.028635	8	0.119113
			6	-0.008994	9	0.073399
			BIAS CORR	0.043799		
			VAR CCEFF	0.007229		0.203601

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	99.89	97.68
9	9	3	1	1.085286	4	0.485025
			2	-0.058268	7	0.257969
			4	-0.027018	9	0.091729
				BIAS CORR		0.046945
				VAR CCEFF		0.007239
				EFFICIENCY	99.75	94.84
9	9	2	1	1.058241	6	0.521029
			3	-0.058241	9	0.110952
				BIAS CORR		0.050201
				VAR CCEFF		0.007266
				EFFICIENCY	99.37	88.03
9	9	1	1	1.000000	8	0.432199
				BIAS CORR		0.063600
				VAR CCEFF		0.007403
				EFFICIENCY	97.54	67.31
9	8	8	1	1.082721	1	0.223298
			2	-0.046122	2	0.188295
			3	-0.018271	3	0.165631
			4	-0.008758	4	0.148885
			5	-0.004602	5	0.135299
			6	-0.002550	6	0.123570
			7	-0.001405	7	0.112699
			8	-0.001013	8	0.191560
				BIAS CORR		0.041603
				VAR COEFF		0.007221
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	88.87
9	8	7	1	1.082777	2	0.270387
			2	-0.046126	3	0.165896
			3	-0.018273	4	0.149075
			4	-0.008760	5	0.135442
			5	-0.004604	6	0.123698
			6	-0.003617	7	0.112809
			8	-0.001396	8	0.191743
				BIAS CORR		0.041740

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF		0.223989
				EFFICIENCY		99.99
9	8	6	1	1.082905	2	0.379323
			2	-0.046137	4	0.212307
			3	-0.018278	5	0.135701
			4	-0.011844	6	0.123936
			6	-0.005248	7	0.112999
			8	-0.001397	8	0.192063
				BIAS CORR		0.041860
				VAR COEFF		0.007222
				EFFICIENCY		99.98
9	8	5	1	1.083167	2	0.380876
			2	-0.046153	4	0.304207
			3	-0.024021	6	0.172540
			5	-0.009648	7	0.113422
			7	-0.003345	8	0.192743
				BIAS CORR		0.042533
				VAR COEFF		0.007224
				EFFICIENCY		99.96
9	8	4	1	1.083836	2	0.404521
			2	-0.046207	5	0.280688
			3	-0.028635	7	0.154760
			6	-0.008994	8	0.193954
				BIAS CORR		0.043799
				VAR COEFF		0.007229
				EFFICIENCY		99.89
9	8	3	1	1.085286	2	0.525133
			2	-0.058268	6	0.307326
			4	-0.027018	8	0.228388
				BIAS CORR		0.046945
				VAR COEFF		0.007239
				EFFICIENCY		99.76
9	8	2	1	1.058241	5	0.553482
			3	-0.058241	6	0.263224
				BIAS CORR		0.050201
				VAR COEFF		0.007266

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	99.38	93.89
9	8	1	1	1.000000	8	0.432199
				BIAS CORR	0.063600	
				VAR CCEFF	0.007403	0.295463
				EFFICIENCY	97.54	75.74
9	7	7	1	1.012837	1	0.255805
			2	-0.046129	2	0.215715
			3	-0.018276	3	0.189969
			4	-0.008761	4	0.170770
			5	-0.004607	5	0.155511
			6	-0.002555	6	0.142308
			7	-0.002510	7	0.367678
				BIAS CORR	0.042270	
				VAR CCEFF	0.007222	0.255893
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.99	77.72
9	7	6	1	1.082914	2	0.305800
			2	-0.046133	3	0.190319
			3	-0.018280	4	0.171012
			4	-0.008764	5	0.155698
			5	-0.006396	6	0.142476
			7	-0.003341	7	0.368083
				BIAS CORR	0.042389	
				VAR CCEFF	0.007222	0.256169
				EFFICIENCY	99.99	99.89
9	7	5	1	1.083167	2	0.434880
			2	-0.046153	4	0.243613
			3	-0.024021	5	0.156034
			5	-0.009648	6	0.142785
			7	-0.003345	7	0.368790
				BIAS CORR	0.042533	
				VAR CCEFF	0.007224	0.256650
				EFFICIENCY	99.97	99.71
9	7	4	1	1.083836	2	0.436893
			2	-0.046207	4	0.349466
			3	-0.028635	6	0.198777



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
			6	-0.008994	7	0.370318
			BIAS CORR	0.043799		
			VAR CCEFF	0.007229		0.257659
			EFFICIENCY	99.90		99.31
9	7	3	1	1.085286	3	0.464683
			2	-0.058268	5	0.323294
			4	-0.027018	7	0.419934
			BIAS CORR	0.046945		
			VAR CCEFF	0.007239		0.259522
			EFFICIENCY	99.77		98.60
9	7	2	1	1.058241	4	0.616019
			3	-0.058241	7	0.469663
			BIAS CORR	0.050201		
			VAR CCEFF	0.007266		0.265069
			EFFICIENCY	99.39		96.54
9	7	1	1	1.000000	7	0.661128
			BIAS CORR	0.063600		
			VAR CCEFF	0.007403		0.297715
			EFFICIENCY	97.55		85.95
9	6	6	1	1.083089	1	0.299502
			2	-0.046146	2	0.252981
			3	-0.018285	3	0.222636
			4	-0.008771	4	0.200753
			5	-0.004616	5	0.182985
			6	-0.005272	6	0.630637
			BIAS CORR	0.043260		
			VAR CCEFF	0.007224		0.298803
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.96		66.56
9	6	5	1	1.083217	2	0.363207
			2	-0.046157	3	0.223065
			3	-0.018290	4	0.201075
			4	-0.011862	5	0.183238
			6	-0.006908	6	0.631463
			BIAS CORR	0.043383		
			VAR CCEFF	0.007224		0.299182

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	99.99	99.87
9	6	4	1	1.083836	2	0.509978
			2	-0.046207	4	0.286263
			3	-0.028635	5	0.183694
			6	-0.008994	6	0.632928
				BIAS CORR		0.043799
				VAR CFF		0.007229
				EFFICIENCY	99.93	99.65
9	6	3	1	1.085286	2	0.512716
			2	-0.058268	4	0.411181
			4	-0.027018	6	0.701286
				BIAS CORR		0.046945
				VAR CCEFF		0.007239
				EFFICIENCY	99.79	99.19
9	6	2	1	1.058241	2	0.702566
			3	-0.058241	6	0.768595
				BIAS CORR		0.050701
				VAR CCEFF		0.007266
				EFFICIENCY	99.41	97.89
9	6	1	1	1.000000	6	0.968384
				BIAS CORR		0.063600
				VAR CCEFF		0.007403
				EFFICIENCY	97.57	91.73
9	5	5	1	1.083601	1	0.361798
			2	-0.046179	2	0.305449
			3	-0.018309	3	0.269745
			4	-0.008790	4	0.243325
			5	-0.010322	5	1.039416
				BIAS CORR		0.044685
				VAR CCEFF		0.007227
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.91	55.39
9	5	4	1	1.083855	2	0.438721
			2	-0.046198	3	0.270378
			3	-0.024067	4	0.243782

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
			5	-0.013584	5	1.041077
			BIAS CORR	0.044832		
			VAR COEFF	0.007229		0.359568
			EFFICIENCY	99.98		99.85
4	5	3	1	1.085286	2	0.616721
			2	-0.058268	4	0.347210
			4	-0.027019	5	1.044044
			BIAS CORR	0.046945		
			VAR COEFF	0.007239		0.360538
			EFFICIENCY	99.94		99.58
4	5	2	1	1.058241	2	0.657022
			3	-0.058241	5	1.142518
			BIAS CORR	0.030201		
			VAR COEFF	0.007266		0.362725
			EFFICIENCY	99.46		98.92
4	5	1	1	1.000000	5	1.415681
			BIAS CORR	0.063600		
			VAR COEFF	0.007403		0.376970
			EFFICIENCY	97.62		95.24
7	4	4	1	1.044544	1	0.456489
			2	-0.046256	2	0.386533
			3	-0.018357	3	0.341623
			4	-0.020031	4	1.719648
			BIAS CORR	0.046732		
			VAR COEFF	0.007234		0.449594
			EFFICIENCY	100.00		100.00
			EFF (M/N)	99.81		44.23
4	4	3	1	1.085286	2	0.554919
			2	-0.058268	3	0.342516
			4	-0.027019	4	1.723201
			BIAS CORR	0.046945		
			VAR COEFF	0.007239		0.450475
			EFFICIENCY	99.94		99.80
4	4	2	1	1.058241	2	0.781256
			3	-0.058241	4	1.859667

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.050701	
				VAR CORR	0.001266	0.497030
				EFFICIENCY	97.96	97.96
4	4	1	1	1.000000	4	2.177117
				BIAS CORR	0.073400	
				VAR CORR	0.007803	0.461909
				EFFICIENCY	97.77	97.67
4	3	3	1	1.000001	1	0.610844
			2	=0.040876	2	0.478703
			3	=0.040876	1	2.472680
				BIAS CORR	0.069716	
				VAR CORR	0.007280	0.601101
				EFFICIENCY	100.00	100.00
				EFFI CORR	97.00	91.00
4	3	2	1	1.000791	1	0.751776
			2	=0.040876	1	2.177201
				BIAS CORR	0.040701	
				VAR CORR	0.007266	0.407703
				EFFICIENCY	97.77	97.71
4	3	1	1	1.000000	1	1.405306
				BIAS CORR	0.063800	
				VAR CORR	0.007803	0.202437
				EFFICIENCY	97.96	98.77
4	2	2	1	1.007707	1	0.490903
			2	=0.0407707	1	0.010177
				BIAS CORR	0.054716	
				VAR CORR	0.007280	0.400116
				EFFICIENCY	100.00	100.00
				EFFI CORR	97.00	71.50
4	2	1	1	1.000000	1	0.711693
				BIAS CORR	0.063800	
				VAR CORR	0.007803	0.509907
				EFFICIENCY	97.96	97.97
4	1	1	1	1.000000	1	15.721219

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM 1-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 0.75

n	m	k	j	LOCATION	j	SCALE			
10	10	10	1	0.661600	1	1.030734			
			2	0.007461	2	100.00			
			3	100.00	3	10.87			
			4	97.56	4				
			5		5				
			6		6				
			7		7				
			8		8				
			9		9				
			10		10				
10	10	5	1	0.661600	1	0.104705			
			2	0.007461	2	0.156754			
			3	0.019361	3	0.131866			
			4	0.008457	4	0.172319			
			5	0.006796	5	0.113177			
			6	0.007741	6	0.101751			
			7	0.001161	7	0.095619			
			8	0.000931	8	0.001540			
			9	0.000697	9	0.000717			
			10	0.000100	10	0.000111			
10	10	1	1	0.094514		0.117886			
			2	0.055540		100.00			
			3	100.00		100.00			
			4	100.00		100.00			
			10	10	1	1	0.661600	1	0.0775679
						2	0.007461	2	0.111677
						3	0.018145	3	0.125077
						4	0.008750	4	0.111751
						5	0.006796	5	0.104670
						6	0.007741	6	0.109577
7	0.001161	7				0.001577			
8	0.000931	8				0.000710			
9	0.000697	9				0.000117			
10	0.000100	10							
10	10	1	1	0.094514		0.117886			
			2	0.055540		100.00			
			3	100.00		100.00			
			4	100.00		100.00			
			5	100.00		100.00			
			6	100.00		100.00			
			7	100.00		100.00			
			8	100.00		100.00			
			9	100.00		100.00			
			10	100.00		100.00			

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM 1-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

n	m	l	i	LOCATION	i	SCALE			
				BIAS CORR	0.035755				
				VAR CORR	0.009469	0.175161			
				EFFICIENCY	97.97	97.88			
10	10	7	1	1.000000	2	0.312719			
			2	=0.045074	4	0.751503			
			3	=0.018312	6	0.146980			
			4	=0.000750	7	0.095937			
			5	=0.000036	8	0.001705			
			6	=0.000297	9	0.015733			
			7	=0.000750	10	0.066553			
						BIAS CORR	0.035755		
						VAR CORR	0.009469	0.175161	
						EFFICIENCY	97.97	97.88	
10	10	6	1	1.000000	2	0.336037			
			2	=0.045074	4	0.731577			
			3	=0.010328	6	0.133725			
			4	=0.012087	7	0.088115			
			5	=0.005087	8	0.075917			
			6	=0.007777	9	0.066804			
						BIAS CORR	0.035755		
						VAR CORR	0.009469	0.175161	
						EFFICIENCY	97.97	97.88	
			10	10	5	1	1.000000	2	0.376109
2	=0.045074	4				0.706135			
3	=0.027094	6				0.171503			
4	=0.011764	7				0.081075			
5	=0.007079	8				0.066707			
						BIAS CORR	0.035755		
						VAR CORR	0.009469	0.175161	
						EFFICIENCY	97.97	97.88	
10	10	4				1	1.000000	2	0.435339
						2	=0.045074	4	0.717562
			3	=0.021058	6	0.106417			
			4	=0.006221	7	0.062017			
						BIAS CORR	0.035755		
						VAR CORR	0.009469	0.175161	
						EFFICIENCY	97.97	97.88	

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	i	LOCATION	i	SCALE	
10	10	1	1	1.006714	1	0.495701	
			2	=0.066586	1	0.227680	
			3	=0.020120	10	0.001948	
			BIAS CORR		0.032097		
			VAR COEFF		0.005467		0.104059
EFFICIENCY		97.74		94.62			
10	10	2	1	1.000501	1	0.484726	
			2	=0.000501	10	0.005778	
			BIAS CORR		0.003471		
			VAR COEFF		0.000688		0.204918
			EFFICIENCY		97.39		81.74
10	10	1	1	1.000000	1	0.602782	
			BIAS CORR		0.000765		
			VAR COEFF		0.000000		0.260164
			EFFICIENCY		97.87		61.14
			10	5	2	1	1.001990
2	=0.001990	2				0.173245	
3	=0.001990	3				0.107777	
4	=0.001990	4				0.101704	
5	=0.001990	5				0.125953	
6	=0.002710	1				0.115720	
7	=0.001605	2				0.100479	
8	=0.000491	1				0.091881	
9	=0.000707	3				0.107686	
BIAS CORR		0.016160					
VAR COEFF		0.000668		0.140784			
EFFICIENCY		100.00		100.00			
EFFICIENCY		100.00		89.97			
10	5	3	1	1.004031	1	0.204980	
			2	=0.004031	1	0.151111	
			3	=0.010764	4	0.130046	
			4	=0.010764	3	0.120084	
			5	=0.004790	1	0.113054	
			6	=0.002710	2	0.100467	
			7	=0.002710	1	0.091799	
			8	=0.000491	3	0.107798	
			BIAS CORR		0.016160		
			VAR COEFF		0.000668		0.140784

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE			
				BIAS CORR	0.035255				
				VAR COEFF	0.009649	0.198916			
				EFFICIENCY	100.00	99.93			
10	4	7	1	1.084096	2	0.348132			
			2	=0.045076	4	0.197974			
			3	=0.018172	5	0.176279			
			4	=0.008950	6	0.116036			
			5	=0.006634	7	0.102798			
			6	=0.003297	8	0.098077			
			7	=0.000950	9	0.167781			
				BIAS CORR	0.035255				
				VAR COEFF	0.009649		0.198916		
				EFFICIENCY	99.93		99.93		
10	4	6	1	1.084711	2	0.349024			
			2	=0.045095	4	0.275144			
			3	=0.018168	6	0.161709			
			4	=0.012459	7	0.107071			
			5	=0.005689	8	0.098309			
			6	=0.002222	9	0.168329			
				BIAS CORR	0.035255				
				VAR COEFF	0.009649		0.198916		
				EFFICIENCY	99.93		99.93		
			10	4	5	1	1.084519	2	0.372189
2	=0.045907	4				0.291719			
3	=0.026096	7				0.169160			
4	=0.017299	8				0.098444			
5	=0.007823	9				0.158972			
	BIAS CORR	0.036031							
	VAR COEFF	0.008681					0.201269		
	EFFICIENCY	99.99					99.26		
10	4	4				1	1.085178	2	0.474976
						2	=0.047760	4	0.283771
			3	=0.027189	6	0.134816			
			4	=0.008270	8	0.170278			
				BIAS CORR	0.036776				
				VAR COEFF	0.008496		0.201789		
				EFFICIENCY	99.07		98.54		



TABLE 1  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 7 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	i	LOCATION	i	SCALE	
10	9	J	1	1.086714	4	0.490364	
			2	-0.066586	7	0.269766	
			5	-0.020128	6	0.200710	
			BIAS CORR		0.039097		
			VAR COEFF		0.005467		0.204498
			EFFICIENCY		94.74		97.21
10	9	Z	1	1.060501	6	0.917074	
			3	-0.060501	5	0.232119	
			BIAS CORR		0.043471		
			VAR COEFF		0.005484		0.213754
			EFFICIENCY		94.39		93.20
10	9	I	1	1.000000	6	0.602782	
			BIAS CORR		0.009269		
			VAR COEFF		0.005995		0.266164
			EFFICIENCY		97.67		74.63
10	8	H	1	1.084074	1	0.230436	
			2	-0.049874	2	0.199306	
			3	-0.018325	3	0.172771	
			4	-0.008740	4	0.159770	
			5	-0.004747	5	0.147100	
			6	-0.002717	6	0.130728	
			7	-0.001607	7	0.120789	
			8	-0.001244	8	0.119008	
			BIAS CORR		0.015611		
			VAR COEFF		0.005997		0.223174
			EFFICIENCY		100.00		100.00
		94.44		74.99			
10	8	I	1	1.084110	2	0.201668	
			2	-0.049893	3	0.172494	
			3	-0.018369	4	0.159741	
			4	-0.008724	5	0.147219	
			5	-0.004746	6	0.131043	
			6	-0.003084	7	0.120459	
			8	-0.002220	8	0.119344	
			BIAS CORR		0.019707		
			VAR COEFF		0.005997		0.223047

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				100.00		99.99
				EFFICIENCY		
10	8	6	1	1.084731	2	0.392491
			2	-0.045894	4	0.223486
			3	-0.010764	5	0.142397
			4	-0.012059	6	0.131127
			5	-0.009689	7	0.120487
			6	-0.002722	8	0.319651
			BIAS CORR	0.019787		
			VAR CORR	0.009449		0.224170
			EFFICIENCY	99.79		99.80
10	8	5	1	1.084519	2	0.393602
			2	-0.045707	4	0.311050
			3	-0.024094	5	0.185052
			4	-0.011483	6	0.121271
			5	-0.002029	7	0.317408
			BIAS CORR	0.010015		
			VAR CORR	0.009451		0.224479
			EFFICIENCY	99.96		99.50
10	8	4	1	1.085170	2	0.421302
			2	-0.057700	3	0.291979
			3	-0.021858	4	0.164017
			4	-0.005629	5	0.317762
			BIAS CORR	0.010776		
			VAR CORR	0.009494		0.224619
			EFFICIENCY	99.70		99.16
10	8	3	1	1.081715	2	0.936717
			2	-0.066586	3	0.321521
			3	-0.020178	4	0.360729
			BIAS CORR	0.019097		
			VAR CORR	0.009462		0.227033
			EFFICIENCY	99.75		98.21
10	8	2	1	1.060501	2	0.963878
			2	-0.060501	3	0.406494
			BIAS CORR	0.009471		
			VAR CORR	0.009484		0.232167
			EFFICIENCY	99.36		96.01

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE			
10	8	1	1	1.000000	8	0.602282			
				BIAS CORR	0.055265				
				VAR COEFF	0.005590		0.266364		
				EFFICIENCY	97.67		83.99		
10	7	7	1	1.084737	1	0.264689			
			2	-0.045886	2	0.221647			
			3	-0.018374	3	0.198157			
			4	-0.000761	4	0.178131			
			5	-0.004803	5	0.163651			
			6	-0.007777	6	0.150666			
			7	-0.004330	7	0.525737			
				BIAS CORR	0.016317				
				VAR COEFF	0.005447		0.255894		
				EFFICIENCY	100.00		100.00		
	EFF(7/5)	97.78		69.41					
10	7	6	1	1.084737	2	0.327529			
			2	-0.045887	3	0.198441			
			3	-0.018380	4	0.178546			
			4	-0.000761	5	0.163802			
			5	-0.004844	6	0.150817			
			7	-0.004421	7	0.527178			
				BIAS CORR	0.016386				
				VAR COEFF	0.005450		0.256074		
				EFFICIENCY	97.99		99.41		
			10	7	5	1	1.084527	3	0.480200
2	-0.045903	4				0.296757			
3	-0.024048	5				0.164044			
4	-0.011002	6				0.151108			
7	-0.004427	7				0.526749			
	BIAS CORR	0.016488							
	VAR COEFF	0.005451					0.256441		
	EFFICIENCY	97.97					99.77		
10	7	4				1	1.085138	3	0.451434
						2	-0.045700	4	0.363050
			4	-0.021858	6	0.211108			
			7	-0.005620	7	0.526343			

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.036776	
				VAR COEFF	0.005454	0.257110
				EFFICIENCY	99.91	99.91
10	7	3	1	1.086714	3	0.482804
			2	-0.066786	2	0.332730
			3	-0.020128	7	0.585372
				BIAS CORR	0.039097	
				VAR COEFF	0.005462	0.258351
				EFFICIENCY	99.76	99.64
10	7	2	1	1.060901	4	0.632439
			3	-0.060901	7	0.642403
				BIAS CORR	0.043471	
				VAR COEFF	0.005484	0.262134
				EFFICIENCY	99.37	97.61
10	7	1	1	1.000000	7	0.896197
				BIAS CORR	0.055269	
				VAR COEFF	0.005590	0.283744
				EFFICIENCY	97.49	90.11
10	6	6	1	1.084549	1	0.305778
			2	-0.045909	2	0.262760
			3	-0.018380	3	0.231597
			4	-0.008474	4	0.210231
			5	-0.004811	5	0.192293
			6	-0.002461	6	0.175180
				BIAS CORR	0.037267	
				VAR COEFF	0.005491	0.298777
				EFFICIENCY	100.00	100.00
				(EFFICIENCY)	99.75	99.87
10	6	5	1	1.084454	2	0.378996
			2	-0.045920	3	0.231764
			3	-0.018383	4	0.210516
			4	-0.012981	5	0.192444
			5	-0.008270	6	0.175266
				BIAS CORR	0.037341	
				VAR COEFF	0.005492	0.299074
				EFFICIENCY	99.99	99.90

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE			
10	6	4	1	1.085213	2	0.528111			
			2	-0.045963	4	0.301476			
			3	-0.028641	5	0.192829			
			6	-0.010609	6	0.837732			
			BIAS CORR		0.037631				
			VAR COEFF		0.005455	0.299573			
			EFFICIENCY		99.94	99.73			
10	6	5	1	1.086714	2	0.530096			
			2	-0.066586	4	0.427168			
			3	-0.020129	5	0.912769			
			BIAS CORR		0.039097				
			VAR COEFF		0.005462	0.300507			
			EFFICIENCY		99.79	99.42			
			10	6	7	1	1.060501	2	0.721523
3	-0.060501	4				0.487302			
BIAS CORR		0.043471							
VAR COEFF		0.005484				0.302362			
EFFICIENCY		97.40				98.49			
10	6	8				1	1.060000	2	1.204755
						BIAS CORR		0.058265	
			VAR COEFF		0.005590	0.310044			
			EFFICIENCY		97.52	93.93			
			10	5	9	1	1.049121	1	0.374710
						2	-0.045941	2	0.317970
						3	-0.014410	3	0.281396
4	-0.008991	4				0.254426			
5	-0.011777	5				1.311829			
BIAS CORR		0.018579							
VAR COEFF		0.005454				0.308954			
EFFICIENCY		100.00	100.00						
EFF (%)		99.89	41.83						
10	5	4	1	1.045352	2	0.457277			
			2	-0.045956	3	0.281863			
			3	-0.024144	4	0.254827			
			5	-0.015251	5	1.311504			

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	J	LOCATION	I	SCALE
				BIAS CORR	0.038683	
				VAR COEFF	0.005455	0.359437
				EFFICIENCY	99.98	99.88
10	5	3	1	1.086714	2	0.638869
			2	-0.066586	4	0.365491
			5	-0.020128	5	1.316309
				BIAS CORR	0.039097	
				VAR COEFF	0.005462	0.360166
				EFFICIENCY	99.85	99.67
10	5	2	1	1.060501	3	0.684426
			3	-0.060501	5	1.422189
				BIAS CORR	0.043471	
				VAR COEFF	0.005484	0.361969
				EFFICIENCY	99.45	99.18
10	5	1	1	1.070000	5	1.716048
				BIAS CORR	0.055269	
				VAR COEFF	0.005590	0.372432
				EFFICIENCY	97.57	96.37
10	4	4	1	1.086754	1	0.472077
			2	-0.046024	2	0.401686
			3	-0.010455	3	0.395931
			4	-0.021778	4	2.098854
				BIAS CORR	0.040411	
				VAR COEFF	0.005460	0.444578
				EFFICIENCY	100.00	100.00
				EFF (M/P)	99.78	99.77
10	4	1	1	1.086856	2	0.578849
			2	-0.057854	3	0.392652
			4	-0.029002	4	2.102132
				BIAS CORR	0.040588	
				VAR COEFF	0.005463	0.450282
				EFFICIENCY	99.94	99.84
10	4	2	1	1.060501	2	0.809117
			3	-0.060501	4	1.247442
				BIAS CORR	0.043471	

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF EFFICIENCY		
				0.005484 99.56		0.451451 99.59
10	4	1	1	1.000000	4	2.531155
				BIAS CORR VAR COEFF EFFICIENCY		
				0.055265 0.005590 97.69		0.452756 98.00
10	3	3	1	1.008129	1	0.641210
			2	-0.046191	2	0.543394
			3	-0.042628	3	3.552954
				BIAS CORR VAR COEFF EFFICIENCY EFFICIENCY		
				0.043144 0.005472 100.00 99.56		0.601150 100.00 99.76
10	3	1	1	1.060501	2	0.786150
			3	-0.060501	3	3.561217
				BIAS CORR VAR COEFF EFFICIENCY		
				0.043471 0.005484 99.78		0.602447 99.78
10	3	1	1	1.000000	2	3.996789
				BIAS CORR VAR COEFF EFFICIENCY		
				0.055265 0.005590 97.89		0.607036 99.03
10	2	2	1	1.074201	1	0.990135
			2	-0.074201	2	6.819301
				BIAS CORR VAR COEFF EFFICIENCY EFFICIENCY		
				0.047413 0.005501 100.00 99.01		0.906106 100.00 99.74
10	2	1	1	1.000000	2	7.214049
				BIAS CORR VAR COEFF EFFICIENCY		
				0.055265 0.005590 98.41		0.905203 99.06
10	1	1	1	1.000000	1	18.094772
				BIAS CORR		
				0.055265		

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				VAN COEFF	0.003590	1.830233
				EFFICIENCY	100.00	100.00
				EFF(M/N)	97.47	9.77



TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
2	2	2	1	1.000000	1	0.500000
			2	-0.	2	0.500000
			BIAS CORR	0.500000		
			VAR COEFF	0.250000		0.500000
			EFFICIENCY	100.00		100.00
			EFF (M/N)	100.00		100.00
2	2	1	1	1.000000	2	0.666667
			BIAS CORR	0.500000		
			VAR COEFF	0.250000		0.555556
			EFFICIENCY	100.00		90.00
2	1	1	1	1.000000	1	2.000000
			BIAS CORR	0.500000		
			VAR COEFF	0.250000		1.000000
			EFFICIENCY	100.00		100.00
			EFF (M/N)	100.00		50.00
3	3	3	1	1.000000	1	0.333333
			2	0.	2	0.333333
			3	-0.	3	0.333333
			BIAS CORR	0.333333		
			VAR COEFF	0.111111		0.333333
			EFFICIENCY	100.00		100.00
			EFF (M/N)	100.00		100.00
3	3	2	1	1.000000	2	0.447368
			3	-0.	2	0.342105
			BIAS CORR	0.333333		
			VAR COEFF	0.111111		0.342105
			EFFICIENCY	100.00		97.44
3	3	1	1	1.000000	2	0.545455
			BIAS CORR	0.333333		
			VAR COEFF	0.111111		0.404759
			EFFICIENCY	100.00		82.31
3	2	2	1	1.000000	1	0.500000
			2	-0.	2	1.000000
			BIAS CORR	0.333333		
			VAR COEFF	0.111111		0.500000

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		55.67
3	2	1	1	1.000000	2	1.200000
				BIAS CORR		0.333333
				VAR COEFF		0.111111
				EFFICIENCY		100.00
						96.15
3	1	1	1	1.000000	1	3.000000
				BIAS CORR		0.333333
				VAR COEFF		0.111111
				EFFICIENCY		100.00
				EFF(M/N)		33.33
4	4	4	1	1.000000	1	0.250000
			2	0.	2	0.250000
			3	0.	3	0.250000
			4	-0.	4	0.250000
				BIAS CORR		0.250000
				VAR COEFF		0.062500
				EFFICIENCY		100.00
				EFF(M/N)		100.00
4	4	3	1	1.000000	2	0.343434
			2	0.	3	0.252525
			3	-0.	4	0.252525
				BIAS CORR		0.250000
				VAR COEFF		0.062500
				EFFICIENCY		100.00
						99.00
4	4	2	1	1.000000	3	0.413043
			2	0.	4	0.265217
				BIAS CORR		0.250000
				VAR COEFF		0.062500
				EFFICIENCY		100.00
						94.26
4	4	1	1	1.000000	4	0.480000
				BIAS CORR		0.250000
				VAR COEFF		0.062500
				EFFICIENCY		100.00
						76.22

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE	
4	3	3	1	1.000000	1	0.333333	
			2	0.	2	0.333333	
			3	-0.	3	0.666667	
			BIAS CORR		0.250000		
			VAR COEFF		0.062500		0.333333
			EFFICIENCY		100.00		100.00
			EFF (M/N)		100.00		75.00
4	3	2	1	1.000000	2	0.459460	
			2	0.	3	0.675676	
			BIAS CORR		0.250000		
			VAR COEFF		0.062500		0.337838
			EFFICIENCY		100.00		98.67
4	3	1	1	1.000000	3	0.923077	
			BIAS CORR		0.250000		
			VAR COEFF		0.062500		0.360947
			EFFICIENCY		100.00		92.35
4	2	2	1	1.000000	1	0.500000	
			2	0.	2	1.500000	
			BIAS CORR		0.250000		
			VAR COEFF		0.062500		0.500000
			EFFICIENCY		100.00		100.00
EFF (M/N)		100.00		50.00			
4	2	1	1	1.000000	2	1.714286	
			BIAS CORR		0.250000		
			VAR COEFF		0.062500		0.510204
			EFFICIENCY		100.00		98.00
4	1	1	1	1.000000	1	4.000000	
			BIAS CORR		0.250000		
			VAR COEFF		0.062500		1.000000
			EFFICIENCY		100.00		100.00
			EFF (M/N)		100.00		25.00
5	5	5	1	1.000000	1	0.200000	
			2	0.	2	0.200000	
			3	-0.	3	0.200000	
			4	0.	4	0.200000	

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
			5	-0.	5	0.200000
			BIAS CORR	0.200000		
			VAR CCEFF	0.040000		0.200000
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
5	5	4	1	1.000000	2	0.279412
			3	0.	3	0.200980
			4	-0.	4	0.200980
			5	-0.	5	0.200980
			BIAS CORR	0.200000		
			VAR CCEFF	0.040000		0.200980
			EFFICIENCY	100.00		99.51
5	5	3	1	1.000000	2	0.425125
			2	0.	4	0.266948
			3	-0.	5	0.204136
			BIAS CORR	0.200000		
			VAR CCEFF	0.040000		0.204136
			EFFICIENCY	100.00		97.97
5	5	2	1	1.000000	3	0.527997
			4	0.	5	0.256818
			BIAS CORR	0.200000		
			VAR CCEFF	0.040000		0.214015
			EFFICIENCY	100.00		91.45
5	5	1	1	1.000000	5	0.437356
			BIAS CORR	0.200000		
			VAR CCEFF	0.040000		0.280729
			EFFICIENCY	100.00		71.24
5	4	4	1	1.000000	1	0.250000
			2	0.	2	0.250000
			3	-0.	3	0.250000
			4	-0.	4	0.500000
			BIAS CORR	0.200000		
			VAR CCEFF	0.040000		0.250000
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		80.00

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE			
5	4	3	1	1.000000	2	0.349653			
			2	0.	3	0.251534			
			3	-0.	4	0.503067			
					BIAS CORR	0.200000			
					VAR CCEFF	0.040000		0.251534	
					EFFICIENCY	100.00		99.39	
5	4	2	1	1.000000	2	0.534168			
			4	0.	4	0.591915			
					BIAS CORR	0.200000			
					VAR CCEFF	0.040000		0.256497	
					EFFICIENCY	100.00		97.47	
5	4	1	1	1.000000	4	0.779221			
						BIAS CORR	0.200000		
						VAR CCEFF	0.040000		0.281498
			EFFICIENCY	100.00		88.81			
5	3	2	1	1.000000	1	0.333333			
			2	0.	2	0.333333			
			3	-0.	3	1.000000			
					BIAS CORR	0.200000			
					VAR CCEFF	0.040000		0.333333	
					EFFICIENCY	100.00		100.00	
					EFF(M/N)	100.00		60.00	
5	3	2	1	1.000000	2	0.467213			
			2	-0.	3	1.008197			
					BIAS CORR	0.200000			
					VAR CCEFF	0.040000		0.336066	
					EFFICIENCY	100.00		99.19	
5	3	1	1	1.000000	3	1.27655			
						BIAS CORR	0.200000		
						VAR CCEFF	0.040000		0.348121
			EFFICIENCY	100.00		95.75			
5	2	2	1	1.000000	1	0.500000			
			2	-0.	2	2.000000			
						BIAS CORR	0.200000		
			VAR CCEFF	0.040000		0.500000			

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		40.00
5	2	1	1	1.000000	2	2.222222
				BIAS CORR		0.200000
				VAR CCEFF		0.506173
				EFFICIENCY		98.78
5	1	1	1	1.000000	1	5.000000
				BIAS CORR		0.200000
				VAR CCEFF		0.040000
				EFFICIENCY		100.00
				EFF(M/N)		20.00
6	6	6	1	1.000000	1	0.166667
			2	0.	2	0.166667
			3	0.	3	0.166667
			4	0.	4	0.166667
			5	-0.	5	0.166667
			6	-0.	6	0.166667
				BIAS CORR		0.166667
				VAR CCEFF		0.027778
				EFFICIENCY		100.00
				EFF(M/N)		100.00
6	6	5	1	1.000000	2	0.235616
			2	0.	3	0.167123
			3	0.	4	0.167123
			4	0.	5	0.167123
			5	-0.	6	0.167123
				BIAS CORR		0.166667
				VAR CCEFF		0.027778
				EFFICIENCY		100.00
						99.73
6	6	4	1	1.000000	2	0.344981
			2	0.	4	0.228817
			3	0.	5	0.168248
			4	-0.	6	0.168248
				BIAS CORR		0.166667
				VAR CCEFF		0.027778
				EFFICIENCY		100.00
						99.06

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE		
6	6	3	1	1.000000	2	0.415228		
			2	0.	3	0.223841		
			3	-0.	6	0.171173		
				BIAS CORR	0.166667			
				VAR CCEFF	0.027778		0.171173	
				EFFICIENCY	100.00		97.37	
		6	6	2	1	1.000000	4	0.493892
2	-0.				6	0.216654		
				BIAS CORR	0.166667			
				VAR CCEFF	0.027778		0.180545	
				EFFICIENCY	100.00		92.31	
6	6			1	1	1.000000	5	0.689655
						BIAS CORR	0.166667	
			VAR CCEFF		0.027778		0.233716	
			EFFICIENCY		100.00		71.31	
6	5	5	1	1.000000	1	0.200000		
			2	0.	2	0.200000		
			3	0.	3	0.200000		
			4	0.	4	0.200000		
			5	-0.	5	0.400000		
				BIAS CORR	0.166667			
				VAR CCEFF	0.027778		0.200000	
				EFFICIENCY	100.00		100.00	
				EFF(M/N)	100.00		83.33	
		6	5	4	1	1.000000	2	0.282895
2	0.				3	0.200658		
3	0.				4	0.200658		
4	-0.				5	0.401316		
				BIAS CORR	0.166667			
				VAR CCEFF	0.027778		0.200658	
				EFFICIENCY	100.00		99.67	
6	5	3	1	1.000000	2	0.414644		
			2	0.	4	0.275103		
			3	-0.	5	0.404563		
				BIAS CORR	0.166667			

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				0.027778		0.202281
				100.00		98.87
6	5	2	1	1.000000	3	0.500982
			2	-0.	5	0.476594
				0.166667		
				0.027778		0.206524
				100.00		96.84
6	5	1	1	1.000000	5	0.689655
				0.166667		
				0.027778		0.232716
				100.00		85.57
6	4	4	1	1.000000	1	0.250000
			2	0.	2	0.250000
			3	0.	3	0.250000
			4	-0.	4	0.750000
				0.166667		
				0.027778		0.250000
				100.00		100.00
				100.00		66.67
6	4	3	1	1.000000	2	0.353910
			2	0.	3	0.251029
			3	-0.	4	0.753086
				0.166667		
				0.027778		0.251029
				100.00		99.59
6	4	2	1	1.000000	2	0.519787
			2	-0.	4	0.852012
				0.166667		
				0.027778		0.253575
				100.00		98.59
6	4	1	1	1.000000	4	1.052632
				0.166667		
				0.027778		0.267467
				100.00		93.47



TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE		
6	3	3	1	1.000000	1	0.333333		
			2	0.	2	0.333333		
			3	-0.	3	1.333333		
				BIAS CORR	0.166667			
				VAR CCEFF	0.027778		0.333333	
				EFFICIENCY	100.00		100.00	
				EFF(M/N)	100.00		-50.00	
6	3	2	1	1.000000	2	0.472528		
			2	-0.	3	1.340659		
				BIAS CORR	0.166667			
				VAR CCEFF	0.027778		0.335165	
				EFFICIENCY	100.00		99.45	
		6	3	1	1	1.000000	3	1.621622
						BIAS CORR	0.166667	
	VAR CCEFF				0.027778		0.342586	
	EFFICIENCY				100.00		97.30	
6	2	2	1	1.000000	1	0.500000		
			2	-0.	2	2.500000		
				BIAS CORR	0.166667			
				VAR CCEFF	0.027778		0.500000	
				EFFICIENCY	100.00		100.00	
				EFF(M/N)	100.00		33.33	
		6	2	1	1	1.000000	2	2.727273
	BIAS CORR				0.166667			
	VAR CCEFF				0.027778		0.504132	
	EFFICIENCY				100.00		99.18	
6	1	1	1	1.000000	1	6.000000		
				BIAS CORR	0.166667			
				VAR CCEFF	0.027778		1.000000	
				EFFICIENCY	100.00		100.00	
				EFF(M/N)	100.00		16.67	
7	7	7	1	1.000000	1	0.142857		
			2	0.	2	0.142857		
			3	0.	3	0.142857		
			4	0.	4	0.142857		

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM 1-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	k	LOCATION	k	SCALE
			5	-0.	5	0.142857
			6	-0.	6	0.142857
			7	0.	7	0.142857
			BIAS CORR	0.142857		
			VAR COEFF	0.070408		0.142857
			EFFICIENCY	100.00		100.00
			EFF (M/N)	100.00		100.00
	7	6	1	1.000000	2	0.203704
			2	0.	3	0.143098
			3	0.	4	0.143098
			5	-0.	5	0.143098
			6	0.	6	0.143098
			7	0.	7	0.143098
			BIAS CORR	0.142857		
			VAR COEFF	0.070408		0.143098
			EFFICIENCY	100.00		99.83
7	7	5	1	1.000000	2	0.241977
			2	0.	4	0.143599
			4	0.	5	0.143599
			5	-0.	6	0.143599
			7	0.	7	0.143599
			BIAS CORR	0.142197		
			VAR COEFF	0.070408		0.143599
			EFFICIENCY	100.00		99.44
7	7	4	1	1.000000	2	0.350211
			2	0.	3	0.144849
			3	0.	6	0.144849
			5	-0.	7	0.144849
			BIAS CORR	0.142857		
			VAR COEFF	0.020408		0.144849
			EFFICIENCY	100.00		98.63
7	7	3	1	1.000000	4	0.404767
			3	0.	6	0.148117
			4	-0.	7	0.148117
			BIAS CORR	0.142857		
			VAR COEFF	0.070408		0.148117
			EFFICIENCY	100.00		98.45

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE			
7	7	2	1	1.000000	5	0.467528			
			5	0.	7	0.188618			
			BIAS CORR		0.142857				
			VAR COEFF		0.020408		0.157182		
			EFFICIENCY		100.00		90.84		
7	7	1	1	1.000000	6	0.627803			
			BIAS CORR		0.142857				
			VAR COEFF		0.020408		0.201118		
			EFFICIENCY		100.00		70.82		
7	6	6	1	1.000000	1	0.166667			
			2	0.	2	0.166667			
			3	0.	3	0.166667			
			4	0.	4	0.166667			
			5	-0.	5	0.166667			
				0.	6	0.333333			
			BIAS CORR		0.142857				
			VAR COEFF		0.020408		0.166667		
			EFFICIENCY		100.00		100.00		
			EFF (M/N)		100.00		85.71		
7	6	5	1	1.000000	2	0.237721			
			2	0.	3	0.166994			
			3	0.	4	0.166994			
			4	0.	5	0.166994			
			5	-0.	6	0.333988			
			BIAS CORR		0.142857				
			VAR COEFF		0.020408		0.166994		
			EFFICIENCY		100.00		99.80		
			7	6	4	1	1.000000	2	0.340935
2	0.	4				0.233112			
3	0.	5				0.167677			
5	-0.	6				0.335354			
BIAS CORR		0.142857							
VAR COEFF		0.020408					0.167677		
EFFICIENCY		100.00					99.40		
7	6	3				1	1.000000	3	0.405529

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
			3	0.	5	0.230354
			4	-0.	6	0.338757
				BIAS CORR		0.169378
				VAR CCEFF		98.40
				EFFICIENCY		
7	6	2	1	1.000000	4	0.475144
			5	0.	6	0.401239
				BIAS CORR		0.173870
				VAR CCEFF		95.86
				EFFICIENCY		
7	6	1	1	1.000000	6	0.627803
				BIAS CORR		0.201718
				VAR CCEFF		82.62
				EFFICIENCY		
7	5	5	1	1.000000	1	0.200000
			2	0.	2	0.200000
			3	0.	3	0.200000
			4	0.	4	0.200000
			5	-0.	5	0.600000
				BIAS CORR		0.200000
				VAR CCEFF		100.00
				EFFICIENCY		71.43
				EFF(M/N)		
7	5	4	1	1.000000	2	0.285377
			2	0.	3	0.200472
			3	0.	4	0.200472
			5	-0.	5	0.601415
				BIAS CORR		0.200472
				VAR CCEFF		99.76
				EFFICIENCY		
7	5	3	1	1.000000	2	0.409619
			3	0.	4	0.280074
			4	-0.	5	0.604370
				BIAS CORR		0.201457
				VAR CCEFF		99.28
				EFFICIENCY		

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
7	5	2	1	1.000000	2	0.493039
			5	0.	5	0.685163
			BIAS CORR	0.142857		
			VAR CCEFF	0.020408		0.203917
			EFFICIENCY	100.00		98.08
7	5	1	1	1.000000	5	0.915033
			BIAS CORR	0.142857		
			VAR CCEFF	0.020408		0.219199
			EFFICIENCY	100.00		91.24
7	4	4	1	1.000000	1	0.250000
			2	0.	2	0.250000
			3	0.	3	0.250000
			4	-0.	4	1.000000
			BIAS CORR	0.142857		
			VAR CCEFF	0.020408		0.250000
			EFFICIENCY	100.00		100.00
EFF(M/N)	100.00		57.14			
7	4	3	1	1.000000	2	0.356932
			3	0.	3	0.250737
			4	-0.	4	1.002950
			BIAS CORR	0.142857		
			VAR CCEFF	0.020408		0.250737
EFFICIENCY	100.00		99.71			
7	4	2	1	1.000000	2	0.512958
			2	0.	4	1.107572
			BIAS CORR	0.142857		
			VAR CCEFF	0.020408		0.252280
EFFICIENCY	100.00		99.10			
7	4	1	1	1.000000	4	1.316614
			BIAS CORR	0.142857		
			VAR CCEFF	0.020408		0.261210
			EFFICIENCY	100.00		95.71
7	3	3	1	1.000000	1	0.333333
			2	0.	2	0.333333

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
			3	-0.	3	1.666667
				BIAS CORR		0.333333
				VAR CCEFF		100.00
				EFFICIENCY		42.86
				EFF(M/N)		
7	3	2	1	1.000000	2	0.476378
			2	0.	3	1.673228
				BIAS CORR		0.334646
				VAR CCEFF		99.61
				EFFICIENCY		
7	3	1	1	1.000000	3	1.962617
				BIAS CORR		0.339680
				VAR CCEFF		98.13
				EFFICIENCY		
7	2	2	1	1.000000	1	0.500000
			2	0.	2	3.000000
				BIAS CORR		0.500000
				VAR CCEFF		100.00
				EFFICIENCY		28.57
				EFF(M/N)		
7	2	1	1	1.000000	2	3.230769
				BIAS CORR		0.502959
				VAR CCEFF		99.41
				EFFICIENCY		
7	1	1	1	1.000000	1	7.000000
				BIAS CORR		1.000000
				VAR CCEFF		100.00
				EFFICIENCY		14.29
				EFF(M/N)		
8	8	8	1	1.000000	1	0.125000
			2	0.	2	0.125000
			3	-0.	3	0.125000
			4	0.	4	0.125000
			5	-0.	5	0.125000
			6	-0.	6	0.125000

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE			
			7	0.	7	0.125000			
			8	0.	8	0.125000			
			BIAS CORR		0.125000				
			VAR CCEFF		0.015625		0.125000		
			EFFICIENCY		100.00		100.00		
			EFF(M/N)		100.00		100.00		
			8	8	7	1	1.000000	2	0.179402
2	0.	3				0.125138			
3	-0.	4				0.125138			
4	0.	5				0.125138			
5	-0.	6				0.125138			
6	-0.	7				0.125138			
7	0.	8				0.125138			
BIAS CORR		0.125000							
VAR CCEFF		0.015625					0.125138		
EFFICIENCY		100.00					99.89		
8	8	6	1	1.000000	2	0.253775			
			2	0.	4	0.176787			
			3	-0.	5	0.125396			
			4	0.	6	0.125396			
			5	-0.	7	0.125396			
			6	0.	8	0.125396			
			BIAS CORR		0.125000				
			VAR CCEFF		0.015625		0.125396		
			EFFICIENCY		100.00		99.68		
			8	8	5	1	1.000000	2	0.255054
2	0.	4				0.258336			
3	-0.	6				0.171398			
4	0.	7				0.126028			
5	-0.	8				0.126028			
BIAS CORR		0.125000							
VAR CCEFF		0.015625					0.126028		
EFFICIENCY		100.00					99.18		
8	8	4				1	1.000000	2	0.307894
						2	0.	5	0.265037
			3	-0.	7	0.166424			
			4	0.	8	0.127265			

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		0.125000
				VAR CCEFF		0.015625
				EFFICIENCY		100.00
8	8	3	1	1.000000	4	0.464763
			2	0.	7	0.203608
			3	0.	8	0.130738
				BIAS CORR		0.125000
				VAR CCEFF		0.015625
				EFFICIENCY		100.00
						98.22
8	8	2	1	1.000000	5	0.553625
			2	0.	8	0.187760
				BIAS CORR		0.125000
				VAR CCEFF		0.015625
				EFFICIENCY		100.00
						89.61
8	8	1	1	1.000000	7	0.582121
				BIAS CORR		0.125000
				VAR CCEFF		0.015625
				EFFICIENCY		100.00
						69.94
8	7	7	1	1.000000	1	0.142857
			2	0.	2	0.142857
			3	-0.	3	0.142857
			4	0.	4	0.142857
			5	-0.	5	0.142857
			6	-0.	6	0.142857
			7	0.	7	0.285714
				BIAS CORR		0.125000
				VAR CCEFF		0.015625
				EFFICIENCY		100.00
				EFF(M/N)		87.50
8	7	6	1	1.000000	2	0.205063
			2	0.	3	0.143038
			3	-0.	4	0.143038
			4	0.	5	0.143038
			5	-0.	6	0.143038
			6	0.	7	0.286076
				BIAS CORR		0.125000



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				0.015625		0.143038
				100.00		99.87
8	7	5	1	1.000000	2	0.290160
			2	0.	4	0.202134
			3	-0.	5	0.143374
			4	0.	6	0.143374
			5	-0.	7	0.286748
				0.125000		
				0.015625		0.143374
				100.00		99.64
8	7	4	1	1.000000	2	0.291833
			2	0.	4	0.295589
			3	-0.	6	0.196114
			4	0.	7	0.288402
				0.125000		
				0.015625		0.144201
				100.00		99.07
8	7	3	1	1.000000	3	0.352752
			2	0.	5	0.303685
			3	0.	7	0.376516
				0.125000		
				0.015625		0.145824
				100.00		97.97
8	7	2	1	1.000000	4	0.534664
			2	0.	7	0.384632
				0.125000		
				0.015625		0.150401
				100.00		94.98
8	7	1	1	1.000000	7	0.582121
				0.125000		
				0.015625		0.178725
				100.00		79.93
8	6	6	1	1.000000	1	0.166667
			2	0.	2	0.166667
			3	-0.	3	0.166667

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
			4	0.	4	0.166667
			5	-0.	5	0.166667
			6	0.	6	0.500000
				BIAS CORR		0.125000
				VAR CCEFF		0.015625
				EFFICIENCY		100.00
				EFF(M/N)		100.00
8	6	5	1	1.000000	2	0.239291
			2	0.	3	0.166913
			3	-0.	4	0.166913
			4	0.	5	0.166913
			5	-0.	6	0.500739
				BIAS CORR		0.125000
				VAR CCEFF		0.015625
				EFFICIENCY		100.00
						99.85
8	6	4	1	1.000000	2	0.338724
			2	0.	4	0.235965
			3	-0.	5	0.167371
			4	0.	6	0.502112
				BIAS CORR		0.125000
				VAR CCEFF		0.015625
				EFFICIENCY		100.00
						99.58
8	6	3	1	1.000000	2	0.341007
			2	0.	4	0.345395
			3	0.	6	0.566156
				BIAS CORR		0.125000
				VAR CCEFF		0.015625
				EFFICIENCY		100.00
						98.91
8	6	2	1	1.000000	4	0.471414
			2	0.	6	0.575500
				BIAS CORR		0.125000
				VAR CCEFF		0.015625
				EFFICIENCY		100.00
						97.31
8	6	1	1	1.000000	6	0.821114
				BIAS CORR		0.125000
				VAR CCEFF		0.015625
						0.187046

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	100.00	89.10
8	5	5	1	1.000000	1	0.200000
			2	0.	2	0.200000
			3	-0.	3	0.200000
			4	0.	4	0.200000
			5	-0.	5	0.800000
				BIAS CORR	0.125000	
				VAR CCEFF	0.015625	0.200000
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	62.50
8	5	4	1	1.000000	2	0.287234
			2	0.	3	0.200355
			3	-0.	4	0.200355
			4	0.	5	0.801418
				BIAS CORR	0.125000	
				VAR CCEFF	0.015625	0.200355
				EFFICIENCY	100.00	99.82
8	5	3	1	1.000000	2	0.406912
			2	0.	4	0.282398
			3	0.	5	0.804059
				BIAS CORR	0.125000	
				VAR CCEFF	0.015625	0.201015
				EFFICIENCY	100.00	99.50
8	5	2	1	1.000000	3	0.490282
			2	0.	5	0.889700
				BIAS CORR	0.125000	
				VAR CCEFF	0.015625	0.202654
				EFFICIENCY	100.00	98.69
8	5	1	1	1.000000	5	1.130552
				BIAS CORR	0.125000	
				VAR CCEFF	0.015625	0.212570
				EFFICIENCY	100.00	94.09
8	4	4	1	1.000000	1	0.250000
			2	0.	2	0.250000
			3	-0.	2	0.250000

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
			4	0.	4	1.250000
				BIAS CORR		0.125000
				VAR CCEFF		0.015625
				EFFICIENCY		100.00
				EFF(M/N)		50.00
8	4	3	1	1.000000	2	0.359202
			2	0.	3	0.250554
			3	0.	4	1.252772
				BIAS CORR		0.125000
				VAR CCEFF		0.015625
				EFFICIENCY		100.00
						99.78
8	4	2	1	1.000000	2	0.509161
			2	0.	4	1.361048
				BIAS CORR		0.125000
				VAR CCEFF		0.015625
				EFFICIENCY		100.00
						99.37
8	4	1	1	1.000000	4	1.575985
				BIAS CORR		0.125000
				VAR CCEFF		0.015625
				EFFICIENCY		100.00
						96.96
8	3	3	1	1.000000	1	0.333333
			2	0.	2	0.333333
			3	0.	3	2.000000
				BIAS CORR		0.125000
				VAR CCEFF		0.015625
				EFFICIENCY		100.00
				EFF(M/N)		37.50
8	3	2	1	1.000000	2	0.479290
			2	0.	3	2.005917
				BIAS CORR		0.125000
				VAR CCEFF		0.015625
				EFFICIENCY		100.00
						99.71
8	3	1	1	1.000000	3	2.301370
				BIAS CORR		0.125000
				VAR CCEFF		0.015625

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		98.63
8	2	2	1	1.000000	1	0.500000
			2	0.	2	3.500000
				BIAS CORR		0.125000
				VAR CCEFF		0.015625
				EFFICIENCY		100.00
				EFF(M/N)		25.00
8	2	1	1	1.000000	2	3.733333
				BIAS CORR		0.125000
				VAR CCEFF		0.015625
				EFFICIENCY		100.00
8	1	1	1	1.000000	1	8.000000
				BIAS CORR		0.125000
				VAR CCEFF		0.015625
				EFFICIENCY		100.00
				EFF(M/N)		12.50
9	9	9	1	1.000000	1	0.111111
			2	0.	2	0.111111
			3	-0.	3	0.111111
			4	-0.	4	0.111111
			5	0.	5	0.111111
			6	-0.	6	0.111111
			7	0.	7	0.111111
			8	-0.	8	0.111111
			9	0.	9	0.111111
				BIAS CORR		0.111111
				VAR CCEFF		0.012346
				EFFICIENCY		100.00
				EFF(M/N)		100.00
9	9	8	1	1.000000	2	0.160276
			3	0.	3	0.111196
			4	-0.	4	0.111196
			5	0.	5	0.111196
			6	0.	6	0.111196
			7	-0.	7	0.111196
			8	0.	8	0.111196

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE			
9	9	7	1	1.000000	2	0.224671			
			3	0.	4	0.159499			
			4	-0.	5	0.111342			
			5	0.	6	0.111342			
			7	-0.	7	0.111342			
			8	0.	8	0.111342			
			9	-0.	9	0.111342			
			BIAS CORR	0.111111					
			VAR COEFF	0.012346		0.111342			
			EFFICIENCY	100.00		99.92			
9	9	6	1	1.000000	2	0.225283			
			3	0.	4	0.227007			
			4	-0.	5	0.155214			
			5	0.	7	0.111645			
			6	0.	8	0.111645			
			9	-0.	9	0.111645			
						BIAS CORR	0.111111		
			VAR COEFF	0.012346		0.111645			
			EFFICIENCY	100.00		99.92			
9	9	5	1	1.000000	2	0.271732			
			3	0.	5	0.230003			
			4	-0.	7	0.192600			
			5	0.	8	0.112206			
			6	-0.	9	0.112206			
						BIAS CORR	0.111111		
						VAR COEFF	0.012346		0.112206
			EFFICIENCY	100.00		99.02			
9	9	4	1	1.000000	2	0.351033			
			3	-0.	7	0.275324			
			5	0.	8	0.149422			
			6	-0.	9	0.111499			
						BIAS CORR	0.111111		
						VAR COEFF	0.012346		0.113499

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				100.00		97.90
			EFFICIENCY			
4	3	3	1	1.000000	4	0.407551
			2	0.	7	0.287479
			4	-0.	9	0.139830
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.116525
			EFFICIENCY	100.00		95.35
4	4	2	1	1.000000	6	0.527062
			2	-0.	5	0.167990
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.124720
			EFFICIENCY	100.00		89.09
4	9	1	1	1.000000	8	0.546756
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.161360
			EFFICIENCY	100.00		68.86
4	8	3	1	1.000000	1	0.125000
			2	0.	2	0.125000
			3	-0.	3	0.125000
			4	-0.	4	0.125000
			5	0.	5	0.125000
			6	-0.	6	0.125000
			7	0.	7	0.125000
			8	-0.	8	0.250000
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.125000
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		88.89
4	8	7	1	1.000000	2	0.180328
			3	0.	3	0.125108
			4	-0.	4	0.125108
			5	0.	5	0.125108
			6	0.	6	0.125108
			7	-0.	7	0.125108
			8	0.	8	0.250216
			BIAS CORR	0.111111		

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE			
				0.012346 100.00		0.125108 99.91			
9	8	6	1	1.000000	2	0.252821			
			2	0.	4	0.178357			
			3	-0.	5	0.125292			
			4	0.	6	0.125292			
			7	0.	7	0.125292			
			8	-0.	8	0.250584			
			BIAS CORR			0.111111			
			VAR COEFF EFFICIENCY			0.012346 100.00		0.125292 99.77	
9	8	5	1	1.000000	2	0.253596			
			3	0.	4	0.255536			
			4	-0.	6	0.174721			
			5	0.	7	0.125676			
			6	-0.	8	0.251353			
			BIAS CORR			0.111111			
			VAR COEFF EFFICIENCY			0.012346 100.00		0.125676 99.46	
			9	8	4	1	1.000000	3	0.306301
3	-0.	5				0.259073			
5	0.	7				0.171897			
6	-0.	8				0.252774			
BIAS CORR						0.111111			
VAR COEFF EFFICIENCY						0.012346 100.00		0.126387 98.90	
9	8	3				1	1.000000	3	0.396478
						2	0.	6	0.310574
			4	-0.	8	0.295455			
			BIAS CORR			0.111111			
			VAR COEFF EFFICIENCY			0.012346 100.00		0.128020 97.63	
			9	8	2	1	1.000000	5	0.511036
						2	-0.	6	0.338417
						BIAS CORR			0.111111
VAR COEFF						0.012346		0.132330	



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				100.00		94.46
			EFFICIENCY			
9	8	1	1	1.000000	8	0.546756
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.161360
			EFFICIENCY	100.00		77.47
9	7	7	1	1.000000	1	0.142857
			2	0.	2	0.142857
			3	-0.	3	0.142857
			4	-0.	4	0.142857
			5	0.	5	0.142857
			6	-0.	6	0.142857
			7	-0.	7	0.428571
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.142857
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		77.73
9	7	0	1	1.000000	2	0.206114
			3	0.	3	0.142998
			4	-0.	4	0.142998
			5	0.	5	0.142998
			6	0.	6	0.142998
			7	-0.	7	0.428994
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.142998
			EFFICIENCY	100.00		99.90
9	7	5	1	1.000000	2	0.289035
			3	0.	4	0.203905
			4	-0.	5	0.143239
			5	0.	6	0.143239
			6	-0.	7	0.429717
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.143239
			EFFICIENCY	100.00		99.73
9	7	4	1	1.000000	2	0.290048
			3	-0.	4	0.292267
			5	0.	6	0.199835

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
			6	-0.	7	0.431224
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.143741
			EFFICIENCY	100.00		99.38
9	7	3	1	1.000000	3	0.350614
			2	0.	5	0.296554
			4	-0.	7	0.486097
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.144672
			EFFICIENCY	100.00		98.75
9	7	2	1	1.000000	4	0.515722
			2	-0.	7	0.540723
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.147453
			EFFICIENCY	100.00		96.89
9	7	1	1	1.000000	7	0.752463
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.164067
			EFFICIENCY	100.00		87.07
9	6	6	1	1.000000	1	0.166667
			2	0.	2	0.166667
			3	-0.	3	0.166667
			4	-0.	4	0.166667
			5	0.	5	0.166667
			6	-0.	6	0.666667
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.166667
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		66.67
9	6	5	1	1.000000	2	0.240906
			3	0.	3	0.166858
			4	-0.	4	0.166858
			5	0.	5	0.166858
			6	-0.	6	0.667434
			BIAS CORR	0.111111		
			VAR CCEFF	0.012346		0.166858

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	100.00	99.89
9	6	4	1	1.000000	2	0.337358
			3	-0.	4	0.257995
			5	0.	5	0.167187
			6	-0.	6	0.668367
				BIAS CORR	0.111111	
				VAR CCEFF	0.012346	0.167187
				EFFICIENCY	100.00	99.69
9	6	3	1	1.000000	2	0.338739
			2	0.	4	0.341330
			4	-0.	6	0.736955
				BIAS CORR	0.111111	
				VAR CCEFF	0.012346	0.167871
				EFFICIENCY	100.00	99.28
9	6	2	1	1.000000	3	0.526511
			2	-0.	6	0.803978
				BIAS CORR	0.111111	
				VAR CCEFF	0.012346	0.169849
				EFFICIENCY	100.00	98.13
9	6	1	1	1.000000	6	1.004384
				BIAS CORR	0.111111	
				VAR CCEFF	0.012346	0.180227
				EFFICIENCY	100.00	92.48
9	5	5	1	1.000000	1	0.200000
			2	0.	2	0.200000
			3	-0.	3	0.200000
			4	-0.	4	0.200000
			5	0.	5	1.000000
				BIAS CORR	0.111111	
				VAR CCEFF	0.012346	0.200000
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	55.5
9	5	4	1	1.000000	2	0.288674
			3	0.	3	0.200276
			4	-0.	4	0.200276

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
			5	0.	5	1.001381
				BIAS CORR		
				0.111111		
				VAR CCEFF		0.200276
				100.00		99.86
9	5	3	1	1.000000	2	0.405082
			2	0.	4	0.285772
			4	-0.	5	1.003746
				BIAS CORR		
				0.111111		
				VAR CCEFF		0.200749
				100.00		99.63
9	5	2	1	1.000000	3	0.489381
			2	-0.	5	1.092412
				BIAS CORR		
				0.111111		
				VAR CCEFF		0.201931
				100.00		99.04
9	5	1	1	1.000000	5	1.341139
				BIAS CORR		
				0.111111		
				VAR CCEFF		0.208926
				100.00		95.73
9	4	4	1	1.000000	1	0.250000
			2	0.	2	0.250000
			3	-0.	3	0.250000
			4	-0.	4	1.500000
				BIAS CORR		
				0.111111		
				VAR CCEFF		0.250000
				100.00		100.00
				EFF(M/N)		44.44
9	4	3	1	1.000000	2	0.360967
			2	0.	3	0.250432
			4	-0.	4	1.502591
				BIAS CORR		
				0.111111		
				VAR CCEFF		0.250432
				100.00		99.83
9	4	2	1	1.000000	2	0.506827
			2	-0.	4	1.613409

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.111111	
				VAR CCEFF	0.012346	0.251172
				EFFICIENCY	100.00	99.53
9	4	1	1	1.000000	4	1.832727
				BIAS CORR	0.111111	
				VAR CCEFF	0.012346	0.255802
				EFFICIENCY	100.00	97.73
9	3	3	1	1.000000	1	0.333333
			2	0.	2	0.333333
			3	-0.	3	2.333333
				BIAS CORR	0.111111	
				VAR CCEFF	0.012346	0.333333
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	33.33
9	3	2	1	1.000000	2	0.481567
			2	-0.	1	2.338710
				BIAS CORR	0.111111	
				VAR CCEFF	0.012346	0.334101
				EFFICIENCY	100.00	99.77
9	3	1	1	1.000000	3	2.638743
				BIAS CORR	0.111111	
				VAR CCEFF	0.012346	0.336860
				EFFICIENCY	100.00	98.95
9	2	2	1	1.000000	1	0.500000
			2	-0.	2	4.000000
				BIAS CORR	0.111111	
				VAR CCEFF	0.012346	0.500000
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	22.22
9	2	1	1	1.000000	2	4.235254
				BIAS CORR	0.111111	
				VAR CCEFF	0.012346	0.501730
				EFFICIENCY	100.00	99.66
9	1	1	1	1.000000	1	9.000000

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.111111	
				VAR CCEFF	0.012346	1.000000
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	11.11
10	10	10	1	1.000000	1	0.100000
			2	0.	2	0.100000
			3	0.	3	0.100000
			4	-0.	4	0.100000
			5	0.	5	0.100000
			6	0.	6	0.100000
			7	-0.	7	0.100000
			8	0.	8	0.100000
			9	-0.	9	0.100000
			10	-0.	10	0.100000
				BIAS CORR	0.100000	
				VAR CCEFF	0.010000	0.100000
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	100.00
10	10	9	1	1.000000	2	0.144831
			2	0.	3	0.100055
			3	-0.	4	0.100055
			4	-0.	5	0.100055
			6	0.	6	0.100055
			7	-0.	7	0.100055
			8	0.	8	0.100055
			9	-0.	9	0.100055
			10	-0.	10	0.100055
				BIAS CORR	0.100000	
				VAR CCEFF	0.010000	0.100055
				EFFICIENCY	100.00	99.94
10	10	8	1	1.000000	2	0.201678
			2	0.	4	0.143569
			3	-0.	5	0.100144
			4	-0.	6	0.100144
			6	0.	7	0.100144
			7	-0.	8	0.100144
			8	0.	9	0.100144
			9	-0.	10	0.100144

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.100000	
				VAR CCEFF	0.010000	0.100144
				EFFICIENCY	100.00	99.86
10	10	7	1	1.000000	2	0.202017
			2	0.	4	0.203004
			3	-0.	6	0.141419
			4	-0.	7	0.100309
			6	0.	8	0.100309
			7	-0.	9	0.100309
			9	-0.	10	0.100309
				BIAS CORR	0.100000	
				VAR CCEFF	0.010000	0.100309
				EFFICIENCY	100.00	99.67
10	10	6	1	1.000000	3	0.244322
			2	0.	5	0.204575
			3	-0.	7	0.139877
			4	-0.	8	0.100613
			6	0.	9	0.100613
			7	-0.	10	0.100613
				BIAS CORR	0.100000	
				VAR CCEFF	0.010000	0.100613
				EFFICIENCY	100.00	99.39
10	10	5	1	1.000000	3	0.311163
			4	0.	6	0.244741
			5	0.	8	0.137664
			7	0.	9	0.101223
			9	-0.	10	0.101223
				BIAS CORR	0.100000	
				VAR CCEFF	0.010000	0.101223
				EFFICIENCY	100.00	98.79
10	10	4	1	1.000000	4	0.355209
			2	0.	7	0.248245
			3	-0.	9	0.133824
			5	-0.	10	0.102336
				BIAS CORR	0.100000	
				VAR CCEFF	0.010000	0.102336
				EFFICIENCY	100.00	97.72

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE	
10	10	3	1	1.000000	5	0.402347	
			2	0.	8	0.259400	
			3	-0.	10	0.126173	
				BIAS CORR	0.100000		
				VAR CCEFF	0.010000		0.105144
				EFFICIENCY	100.00		95.11
10	10	2	1	1.000000	7	0.505032	
			3	0.	10	0.152501	
				BIAS CORR	0.100000		
				VAR CCEFF	0.010000		0.113220
		EFFICIENCY	100.00		88.32		
10	10	1	1	1.000000	6	0.699906	
					BIAS CORR	0.100000	
				VAR CCEFF	0.010000		0.146905
				EFFICIENCY	100.00		68.12
10	9	9	1	1.000000	1	0.111111	
			2	0.	2	0.111111	
			3	-0.	3	0.111111	
			4	-0.	4	0.111111	
			5	0.	5	0.111111	
			6	0.	6	0.111111	
			7	-0.	7	0.111111	
			8	0.	8	0.111111	
			9	-0.	9	0.222222	
				BIAS CORR	0.100000		
				VAR CCEFF	0.010000		0.111111
		EFFICIENCY	100.00		100.00		
		EFF(M/N)	100.00		90.00		
10	9	8	1	1.000000	2	0.160934	
			2	0.	3	0.111179	
			3	-0.	4	0.111179	
			4	-0.	5	0.111179	
			6	0.	6	0.111179	
			7	-0.	7	0.111179	
			8	0.	8	0.111179	
			9	-0.	9	0.222359	



TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.100000	
				VAR COEFF	0.010000	0.111179
				EFFICIENCY	100.00	99.94
10	9	7	1	1.000000	2	0.224123
			2	0.	4	0.159547
			3	-0.	5	0.111289
			4	-0.	6	0.111289
			6	0.	7	0.111289
			7	-0.	8	0.111289
			9	-0.	9	0.222578
				BIAS CORR	0.100000	
				VAR COEFF	0.010000	0.111289
				EFFICIENCY	100.00	99.84
10	9	6	1	1.000000	2	0.224533
			2	0.	4	0.225637
			3	-0.	6	0.157186
			4	-0.	7	0.111492
			6	0.	8	0.111492
			7	-0.	9	0.222985
				BIAS CORR	0.100000	
				VAR COEFF	0.010000	0.111492
				EFFICIENCY	100.00	99.66
10	9	5	1	1.000000	2	0.271654
			4	0.	5	0.227461
			5	0.	7	0.155525
			7	0.	8	0.111869
			9	-0.	9	0.223737
				BIAS CORR	0.100000	
				VAR COEFF	0.010000	0.111869
				EFFICIENCY	100.00	99.32
10	9	4	1	1.000000	2	0.346207
			2	0.	6	0.272305
			3	-0.	8	0.153168
			5	-0.	9	0.225247
				BIAS CORR	0.100000	
				VAR COEFF	0.010000	0.112623
				EFFICIENCY	100.00	98.66

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE	
10	9	3	1	1.000000	4	0.395703	
			2	0.	7	0.276545	
			3	-0.	9	0.263083	
				BIAS CORR	0.100000		
		VAR COEFF	0.010000		0.114002		
		EFFICIENCY	100.00		97.46		
10	9	2	1	1.000000	6	0.491262	
			3	0.	9	0.303049	
				BIAS CORR	0.100000		
				VAR COEFF	0.010000		0.118500
		EFFICIENCY	100.00		93.76		
10	9	1	1	1.000000	8	0.699806	
				BIAS CORR	0.100000		
				VAR COEFF	0.010000		0.146805
				EFFICIENCY	100.00		75.64
10	8	0	1	1.000000	1	0.125000	
			2	0.	2	0.125000	
			3	0.	3	0.125000	
			4	-0.	4	0.125000	
			5	0.	5	0.125000	
			6	0.	6	0.125000	
			7	-0.	7	0.125000	
			8	-0.	8	0.375000	
				BIAS CORR	0.100000		
				VAR COEFF	0.010000		0.125000
				EFFICIENCY	100.00		100.00
	EFF(M/N)	100.00		80.00			
10	8	7	1	1.000000	2	0.181064	
			2	0.	3	0.125006	
			3	-0.	4	0.125006	
			4	-0.	5	0.125006	
			5	0.	6	0.125006	
			6	0.	7	0.125006	
			7	-0.	8	0.375254	
				BIAS CORR	0.100000		
	VAR COEFF	0.010000		0.125006			

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE			
				EFFICIENCY	100.00	99.93			
10	8	6	1	1.000000	2	0.252189			
			2	0.	4	0.175526			
			3	-0.	5	0.125225			
			4	-0.	6	0.125225			
			6	0.	7	0.125225			
			7	-0.	8	0.375675			
			BIAS CORR		0.100000				
			VAR CCEFF		0.010000		0.125225		
EFFICIENCY		100.00		99.82					
10	8	5	1	1.000000	2	0.252708			
			2	0.	4	0.253951			
			3	-0.	6	0.176910			
			5	0.	7	0.125483			
			7	-0.	8	0.376448			
			BIAS CORR		0.100000				
			VAR CCEFF		0.010000		0.125483		
			EFFICIENCY		100.00		99.62		
10	8	4	1	1.000000	3	0.305871			
			2	0.	5	0.256112			
			3	-0.	7	0.175115			
			5	-0.	8	0.377379			
			BIAS CORR		0.100000				
			VAR CCEFF		0.010000		0.125960		
			EFFICIENCY		100.00		99.24		
			10	8	3	1	1.000000	3	0.390147
2	0.	6				0.306865			
3	-0.	8				0.426442			
BIAS CORR		0.100000							
VAR CCEFF		0.010000					0.126917		
EFFICIENCY		100.00					98.49		
10	8	2				1	1.000000	5	0.496271
						3	0.	8	0.475591
			BIAS CORR		0.100000				
			VAR CCEFF		0.010000		0.129689		
			EFFICIENCY		100.00		96.38		

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE			
10	8	1	1	1.000000	8	0.699806			
				BIAS CORR	0.100000				
				VAR COEFF	0.010000		0.146805		
				EFFICIENCY	100.00		85.15		
10	7	7	1	1.000000	1	0.142857			
			2	0.	2	0.142857			
			3	-0.	3	0.142857			
			4	-0.	4	0.142857			
			5	0.	5	0.142857			
			6	0.	6	0.142857			
			7	-0.	7	0.571428			
				BIAS CORR	0.100000				
				VAR COEFF	0.010000		0.142857		
				EFFICIENCY	100.00		100.00		
				EFF(M/N)	100.00		70.00		
10	7	6	1	1.000000	2	0.206751			
			2	0.	3	0.142970			
			3	-0.	4	0.142970			
			4	-0.	5	0.142970			
			6	0.	6	0.142970			
			7	-0.	7	0.571880			
				BIAS CORR	0.100000				
				VAR COEFF	0.010000		0.142970		
				EFFICIENCY	100.00		99.92		
			10	7	5	1	1.000000	2	0.288290
						2	0.	4	0.205225
3	-0.	5				0.143151			
5	0.	6				0.143151			
7	-0.	7				0.572604			
	BIAS CORR	0.100000							
	VAR COEFF	0.010000					0.143151		
	EFFICIENCY	100.00					99.79		
10	7	4				1	1.000000	2	0.288968
						2	0.	4	0.290389
						3	-0.	6	0.202294
			5	-0.	7	0.573951			

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.100000	
				VAR CCEFF	0.010000	0.143488
				EFFICIENCY	100.00	99.56
10	7	3	1	1.000000	2	0.345951
			2	0.	5	0.293021
			3	-0.	7	0.632686
				BIAS CORR	0.100000	
				VAR CCEFF	0.010000	0.144112
				EFFICIENCY	100.00	99.13
10	7	2	1	1.000000	4	0.506815
			3	0.	7	0.691153
				BIAS CORR	0.100000	
				VAR CCEFF	0.010000	0.146014
				EFFICIENCY	100.00	97.84
10	7	1	1	1.000000	7	0.912713
				BIAS CORR	0.100000	
				VAR CCEFF	0.010000	0.157159
				EFFICIENCY	100.00	90.90
10	6	6	1	1.000000	1	0.166667
			2	0.	2	0.166667
			3	-0.	3	0.166667
			4	-0.	4	0.166666
			5	0.	5	0.166667
			6	-0.	6	0.833333
				BIAS CORR	0.100000	
				VAR CCEFF	0.010000	0.166667
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	60.00
10	6	5	1	1.000000	2	0.241475
			2	0.	3	0.166820
			3	-0.	4	0.166820
			5	-0.	5	0.166820
			6	-0.	6	0.834101
				BIAS CORR	0.100000	
				VAR CCEFF	0.010000	0.166820
				EFFICIENCY	100.00	99.91

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	J	SCALE			
10	6	4	1	1.000000	2	0.336454			
			2	0.	4	0.239512			
			3	-0.	5	0.167067			
			5	-0.	6	0.835335			
			BIAS CORR	0.100000					
			VAR CCEFF	0.010000		0.167067			
			EFFICIENCY	100.00		99.76			
10	6	3	1	1.000000	2	0.337378			
			2	0.	4	0.339037			
			3	-0.	6	0.906287			
			BIAS CORR	0.100000					
			VAR CCEFF	0.010000		0.167526			
			EFFICIENCY	100.00		99.49			
			10	6	2	1	1.000000	3	0.519335
3	0.	6				0.976125			
BIAS CORR	0.100000								
VAR CCEFF	0.010000					0.168943			
EFFICIENCY	100.00					98.65			
10	6	1				1	1.000000	6	1.182543
						BIAS CORR	0.100000		
			VAR CCEFF	0.010000		0.176419			
			EFFICIENCY	100.00		94.47			
			10	5	5	1	1.000000	1	0.200000
						2	0.	2	0.200000
						3	-0.	3	0.200000
4	-0.	4				0.200000			
5	0.	5				1.200000			
BIAS CORR	0.100000								
VAR CCEFF	0.010000					0.200000			
EFFICIENCY	100.00		100.00						
EFF(M/N)	100.00		50.00						
10	5	4	1	1.000000	2	0.289823			
			2	0.	3	0.200221			
			3	-0.	4	0.200221			
			5	-0.	5	1.201327			

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.100000	
				VAR CCEFF	0.010000	0.200221
				EFFICIENCY	100.00	99.49
10	5	3	1	1.000000	2	0.402938
			2	0.	4	0.287552
			3	-0.	5	1.203460
				BIAS CORR	0.100000	
				VAR CCEFF	0.010000	0.200577
				EFFICIENCY	100.00	99.71
10	5	2	1	1.000000	2	0.489243
			3	0.	5	1.294168
				BIAS CORR	0.100000	
				VAR CCEFF	0.010000	0.201473
				EFFICIENCY	100.00	99.27
10	5	1	1	1.000000	5	1.548863
				BIAS CORR	0.100000	
				VAR CCEFF	0.010000	0.206688
				EFFICIENCY	100.00	96.76
10	4	4	1	1.000000	1	0.250000
			2	0.	2	0.250000
			3	-0.	3	0.250000
			4	-0.	4	1.750000
				BIAS CORR	0.100000	
				VAR CCEFF	0.010000	0.250000
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	40.00
10	4	3	1	1.000000	2	0.362379
			2	0.	3	0.250346
			3	-0.	4	1.752420
				BIAS CORR	0.100000	
				VAR CCEFF	0.010000	0.250346
				EFFICIENCY	100.00	99.86
10	4	2	1	1.000000	2	0.505287
			3	0.	4	1.865110
				BIAS CORR	0.100000	

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				0.010000		0.250902
				100.00		99.64
10	4	1	1	1.000000	4	2.087821
				0.100000		
				0.010000		0.254473
				100.00		98.24
10	3	3	1	1.000000	1	0.333333
			2	0.	2	0.333333
			3	-0.	3	2.666667
				0.100000		
				0.010000		0.333333
				100.00		100.00
				100.00		30.00
10	3	2	1	1.000000	2	0.483395
			3	0.	3	2.671587
				0.100000		
				0.010000		0.333948
				100.00		99.82
10	3	1	1	1.000000	3	2.975207
				0.100000		
				0.010000		0.336111
				100.00		99.17
10	2	2	1	1.000000	1	0.500000
			2	-0.	2	4.500000
				0.100000		
				0.010000		0.500000
				100.00		100.00
				100.00		20.00
10	2	1	1	1.000000	2	4.736842
				0.100000		
				0.010000		0.501385
				100.00		99.72
10	1	1	1	1.000000	1	10.000000
				0.100000		



TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF	0.010000	1.000000
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	10.00

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
2	2	2	1	0.942956	1	0.444026
			2	0.057044	2	0.574226
			BIAS CORR	0.580169		
			VAR CCEFF	0.183827		0.322634
			EFFICIENCY	100.00		100.00
		EFF(M/N)	100.00		100.00	
2	2	1	1	1.000000	2	0.753110
			BIAS CORR	0.534939		
			VAR CCEFF	0.185440		0.354212
			EFFICIENCY	99.13		91.08
2	1	1	1	1.000000	1	1.869370
			BIAS CORR	0.534939		
			VAR CCEFF	0.185440		0.648028
			EFFICIENCY	100.00		100.00
		EFF(M/N)	99.13		49.79	
3	3	3	1	0.917412	1	0.273119
			2	0.056680	2	0.324759
			3	0.025909	3	0.396168
			BIAS CORR	0.442764		
			VAR CCEFF	0.095607		0.214647
			EFFICIENCY	100.00		100.00
		EFF(M/N)	100.00		100.00	
3	3	2	1	0.920167	2	0.434733
			2	0.079833	3	0.405181
			BIAS CORR	0.422242		
			VAR CCEFF	0.095915		0.215700
		EFFICIENCY	99.68		97.70	
3	3	1	1	1.000000	2	0.634484
			BIAS CORR	0.386751		
			VAR CCEFF	0.096930		0.256251
			EFFICIENCY	98.64		83.76
3	2	2	1	0.920167	1	0.405798
			2	0.079833	2	1.014123
			BIAS CORR	0.422242		
			VAR CCEFF	0.095915		0.322545

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		66.55
3	2	1	1	1.000000	2	1.202912
				BIAS CORR		
				0.386751		
				VAR CCEFF		0.333825
				0.096930		
				EFFICIENCY		96.62
				98.95		
3	1	1	1	1.000000	1	2.585642
				BIAS CORR		
				0.386751		
				VAR CCEFF		0.648028
				0.096930		
				EFFICIENCY		100.00
				EFF(M/N)		53.12
				98.64		
4	4	4	1	0.903506	1	0.193783
			2	0.057996	2	0.226422
			3	0.028669	3	0.256060
			4	0.014829	4	0.303738
				BIAS CORR		
				0.366507		
				VAR CCEFF		0.160789
				0.060133		
				EFFICIENCY		100.00
				100.00		100.00
				EFF(M/N)		100.00
4	4	3	1	0.904819	2	0.310472
			2	0.073615	3	0.258190
			4	0.021566	4	0.306457
				BIAS CORR		
				0.361891		
				VAR CCEFF		0.162251
				0.060226		
				EFFICIENCY		99.10
				99.85		
4	4	2	1	0.939201	3	0.422061
			3	0.060799	4	0.320208
				BIAS CORR		
				0.351632		
				VAR CCEFF		0.169749
				0.060385		
				EFFICIENCY		94.72
				99.58		
4	4	1	1	1.000000	4	0.569586
				BIAS CORR		
				0.307242		
				VAR CCEFF		0.206663
				0.061172		
				EFFICIENCY		77.80
				98.30		

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
4	3	3	1	0.904906	1	0.257352
			2	0.052993	2	0.299771
			3	0.042101	3	0.707078
			BIAS CORR	0.354834		
			VAR CCEFF	0.060229		0.214584
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.84		74.93
4	3	2	1	0.939201	2	0.412597
			3	0.060799	3	0.715293
			BIAS CORR	0.351632		
			VAR CCEFF	0.060385		0.217180
			EFFICIENCY	99.74		98.80
4	3	1	1	1.000000	3	0.963391
			BIAS CORR	0.307242		
			VAR CCEFF	0.061172		0.230609
			EFFICIENCY	98.46		93.05
4	2	2	1	0.908541	1	0.381617
			2	0.091459	2	1.411773
			BIAS CORR	0.336329		
			VAR CCEFF	0.060485		0.322519
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.42		49.85
4	2	1	1	1.000000	2	1.599287
			BIAS CORR	0.307242		
			VAR CCEFF	0.061172		0.322262
			EFFICIENCY	98.88		98.25
4	1	1	1	1.000000	1	3.254763
			BIAS CORR	0.307242		
			VAR CCEFF	0.061172		0.648028
			EFFICIENCY	100.00		100.00
			EFF(M/N)	98.30		24.91
5	5	5	1	0.894658	1	0.148562
			2	0.050759	2	0.172007
			3	0.028105	3	0.191587
			4	0.017326	4	0.211667

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
			5	0.009652	5	0.246872
			BIAS CORR	0.316990		
			VAR CCEFF	0.041972		0.128528
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
5	5	4	1	0.895318	2	0.239834
			2	0.050259	3	0.192311
			3	0.040771	4	0.212560
			5	0.013652	5	0.247961
			BIAS CORR	0.314184		
			VAR CCEFF	0.042004		0.129102
			EFFICIENCY	99.92		99.56
5	5	3	1	0.896280	2	0.365302
			2	0.067922	4	0.282547
			4	0.035798	5	0.251464
			BIAS CORR	0.307647		
			VAR CCEFF	0.042051		0.130985
			EFFICIENCY	99.81		98.12
5	5	2	1	0.927360	2	0.504038
			3	0.072640	5	0.314526
			BIAS CORR	0.296523		
			VAR CCEFF	0.042186		0.136828
			EFFICIENCY	99.49		93.93
5	5	1	1	1.000000	5	0.527472
			BIAS CORR	0.257012		
			VAR CCEFF	0.042805		0.176394
			EFFICIENCY	98.05		72.86
5	4	4	1	0.895483	1	0.185328
			2	0.050280	2	0.214318
			3	0.028084	3	0.238105
			4	0.026152	4	0.546255
			BIAS CORR	0.309444		
			VAR CCEFF	0.042012		0.160746
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.91		79.96

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM 1-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
5	4	3	1	0.876280	2	0.299255
			2	0.067922	3	0.239265
			4	0.035798	4	0.549217
			BIAS CORR	0.307647		
			VAR COEFF	0.042051		0.161640
			EFFICIENCY	99.91		99.45
5	4	2	1	0.927360	2	0.456946
			3	0.072640	4	0.642531
			BIAS CORR	0.296523		
			VAR COEFF	0.042186		0.164565
			EFFICIENCY	99.59		97.64
5	4	1	1	1.000000	4	0.836851
			BIAS CORR	0.257012		
			VAR COEFF	0.042805		0.179328
			EFFICIENCY	98.15		89.64
5	3	3	1	0.876280	1	0.245809
			2	0.067922	2	0.283472
			3	0.052301	3	0.989792
			BIAS CORR	0.248093		
			VAR COEFF	0.042104		0.214562
			EFFICIENCY	100.00		100.00
			EFF (M/N)	99.69		59.90
5	3	2	1	0.927360	2	0.346827
			3	0.072640	3	0.946750
			BIAS CORR	0.296523		
			VAR COEFF	0.042186		0.216138
			EFFICIENCY	99.81		99.27
5	3	1	1	1.000000	3	1.248517
			BIAS CORR	0.257012		
			VAR COEFF	0.042805		0.223146
			EFFICIENCY	98.15		90.15
5	2	2	1	0.701508	1	0.364161
			2	0.098492	2	1.783629
			BIAS CORR	0.281748		
			VAR COEFF	0.042306		0.322505

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				EFF (M/N)		39.85
5	2	1	1	1.000000	2	1.967868
				BIAS CORR		
				0.257012		
				VAR CCEFF		0.325979
				0.042805		
				EFFICIENCY		98.83
5	1	1	1	1.000000	1	3.890876
				BIAS CORR		
				0.257012		
				VAR CCEFF		0.648028
				0.042805		
				EFFICIENCY		100.00
				EFF (M/N)		19.83
6	6	6	1	0.888476	1	0.115586
			2	0.048751	2	0.137668
			3	0.027319	3	0.152142
			4	0.017505	4	0.165727
			5	0.011633	5	0.180620
			6	0.006916	6	0.208257
				BIAS CORR		
				0.281795		
				VAR CCEFF		0.107045
				0.031291		
				EFFICIENCY		100.00
				EFF (M/N)		100.00
6	6	5	1	0.888861	2	0.194202
			2	0.048261	3	0.152436
			3	0.027311	4	0.166117
			4	0.026098	5	0.181058
			6	0.009471	6	0.208775
				BIAS CORR		
				0.279914		
				VAR CCEFF		0.107314
				0.031305		
				EFFICIENCY		99.75
6	6	4	1	0.889408	2	0.284700
			2	0.048273	4	0.227560
			3	0.038494	5	0.187124
			4	0.023825	6	0.210027
				BIAS CORR		
				0.279364		
				VAR CCEFF		0.107440
				0.031324		
				EFFICIENCY		99.12

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE			
6	6	3	1	0.890754	3	0.378403			
			2	0.064256	5	0.242462			
			4	0.044990	6	0.213384			
			BIAS CORR		0.267886	0.109737			
			VAR COEFF		0.031373	97.55			
EFFICIENCY		99.74							
6	6	2	1	0.919767	4	0.485431			
			3	0.080233	6	0.266492			
			BIAS CORR		0.257355	0.115328			
			VAR COEFF		0.031482	92.82			
			EFFICIENCY		99.39				
6	6	1	1	1.000000	5	0.756252			
			BIAS CORR		0.222130	0.148602			
			VAR COEFF		0.031975	72.03			
			EFFICIENCY		97.86				
6	5	5	1	0.889014	1	0.143338			
			2	0.048271	2	0.164909			
			3	0.027320	3	0.182073			
			4	0.017487	4	0.197496			
			5	0.017908	5	0.446548			
BIAS CORR		0.276500	0.128497						
VAR COEFF		0.071310	100.00						
EFFICIENCY		100.00	83.31						
EFF(M/N)		99.94							
6	5	4	1	0.889408	2	0.232787			
			2	0.048277	3	0.182514			
			3	0.038494	4	0.198448			
			4	0.023875	5	0.447867			
			BIAS CORR		0.275864	0.128883			
VAR COEFF		0.031374	99.70						
EFFICIENCY		99.95							
6	5	3	1	0.890754	2	0.341569			
			2	0.064256	4	0.272351			
			4	0.044990	5	0.451124			
			BIAS CORR		0.267886				



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				0.031370		0.129854
				99.80		98.95
6	5	2	1	0.919767	3	0.454906
			3	0.080233	5	0.528627
				BIAS CORR		
				0.257395		
				VAR COEFF		0.132368
				EFFICIENCY		57.08
6	5	1	1	1.000000	5	0.756272
				BIAS CORR		
				0.222130		
				VAR COEFF		0.148602
				EFFICIENCY		86.47
6	4	4	1	0.890172	1	0.178663
			2	0.048305	2	0.205321
			3	0.027305	3	0.226156
			4	0.034219	4	0.767988
				BIAS CORR		
				0.268814		
				VAR COEFF		0.160729
				EFFICIENCY		100.00
				EFF (M/N)		66.60
6	4	3	1	0.890754	2	0.290138
			2	0.064256	3	0.226869
			4	0.044990	4	0.770778
				BIAS CORR		
				0.267886		
				VAR COEFF		0.161330
				EFFICIENCY		99.63
6	4	2	1	0.919767	2	0.426115
			3	0.080233	4	0.868036
				BIAS CORR		
				0.257395		
				VAR COEFF		0.162833
				EFFICIENCY		98.71
6	4	1	1	1.000000	4	1.063553
				BIAS CORR		
				0.222130		
				VAR COEFF		0.171052
				EFFICIENCY		93.97

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
6	3	3	1	0.892394	1	0.236804
			2	0.048341	2	0.271461
			3	0.059265	3	1.254860
			BIAS CORR	0.258296		
			VAR CCEFF	0.031432		0.214552
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.55		49.49
6	3	2	1	0.919767	2	0.384331
			3	0.080233	3	1.260765
			BIAS CORR	0.257355		
			VAR CCEFF	0.031482		0.215609
			EFFICIENCY	99.84		99.51
6	3	1	1	1.000000	3	1.511360
			BIAS CORR	0.222130		
			VAR CCEFF	0.031975		0.219924
			EFFICIENCY	98.30		97.56
6	2	2	1	0.896797	1	0.350627
			2	0.103203	2	2.137404
			BIAS CORR	0.243729		
			VAR CCEFF	0.031593		0.322503
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.04		33.19
6	2	1	1	1.000000	2	2.317936
			BIAS CORR	0.222130		
			VAR CCEFF	0.031975		0.324826
			EFFICIENCY	98.80		99.29
6	1	1	1	1.000000	1	4.501864
			BIAS CORR	0.222130		
			VAR CCEFF	0.031975		0.648028
			EFFICIENCY	100.00		100.00
			EFF(M/N)	97.86		16.52
7	7	7	1	0.883881	1	0.099549
			2	0.046736	2	0.114147
			3	0.026599	3	0.125526
			4	0.017327	4	0.135769

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
			5	0.011995	5	0.146001
			6	0.008373	6	0.157676
			7	0.005089	7	0.180275
				BIAS CORR		0.255254
				VAR CCEFF		0.024412
				EFFICIENCY		100.00
				EFF(M/N)		100.00
7	7	6	1	0.884108	2	0.162389
			2	0.046742	3	0.125667
			3	0.026595	4	0.135953
			4	0.025073	5	0.146214
			6	0.012396	6	0.157915
			7	0.005086	7	0.180552
				BIAS CORR		0.254471
				VAR CCEFF		0.024419
				EFFICIENCY		99.97
7	7	5	1	0.884411	2	0.233161
			2	0.046746	4	0.189752
			3	0.036895	5	0.146647
			5	0.024964	6	0.158417
			7	0.006983	7	0.181141
				BIAS CORR		0.253301
				VAR CCEFF		0.024427
				EFFICIENCY		99.94
7	7	4	1	0.884952	3	0.307347
			2	0.061621	5	0.201280
			4	0.036330	6	0.159641
			6	0.017097	7	0.182594
				BIAS CORR		0.249987
				VAR CCEFF		0.024443
				EFFICIENCY		99.88
7	7	3	1	0.910875	4	0.384058
			3	0.067651	6	0.213534
			6	0.021474	7	0.186395
				BIAS CORR		0.247975
				VAR CCEFF		0.024485
				EFFICIENCY		99.70
						96.66

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE	
7	7	2	1	0.932693	5	0.476249	
			4	0.067307	7	0.235958	
			BIAS CORR		0.236075		
			VAR COEFF		0.024575		0.100325
		EFFICIENCY		99.34		91.42	
7	7	1	1	1.000000	6	0.699792	
			BIAS CORR		0.196359		
			VAR CCEFF		0.024986		0.128080
			EFFICIENCY		97.70		71.61
7	6	6	1	0.884257	1	0.116056	
			2	0.046752	2	0.133033	
			3	0.026604	3	0.146224	
			4	0.017325	4	0.158022	
			5	0.011981	5	0.169578	
			6	0.013082	6	0.378409	
			BIAS CORR		0.251325		
			VAR CCEFF		0.024423		0.107022
EFFICIENCY		100.00		100.00			
		EFF(M/N)		99.96		85.70	
7	6	5	1	0.884484	2	0.189322	
			2	0.046758	3	0.146414	
			3	0.026600	4	0.158276	
			4	0.025062	5	0.169869	
			6	0.017097	6	0.379084	
			BIAS CORR		0.250545		
			VAR CCEFF		0.024429		0.107215
			EFFICIENCY		99.97		99.82
7	6	4	1	0.884952	2	0.271925	
			2	0.061521	4	0.221076	
			4	0.036330	5	0.170463	
			6	0.017097	6	0.380509	
			BIAS CORR		0.249987		
			VAR CCEFF		0.024443		0.107627
EFFICIENCY		99.92		99.44			
7	6	3	1	0.910875	3	0.358759	

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
			3	0.067651	5	0.234410
			6	0.021474	6	0.384017
			BIAS CORR	0.247975		
			VAR CCEFF	0.024485		0.108646
			EFFICIENCY	99.74		98.51
7	6	2	1	0.932693	4	0.449454
			4	0.067307	6	0.452436
			BIAS CORR	0.236075		
			VAR CCEFF	0.024575		0.111338
			EFFICIENCY	99.38		96.12
7	6	1	1	1.000000	6	0.699792
			BIAS CORR	0.196359		
			VAR CCEFF	0.024986		0.128080
			EFFICIENCY	97.75		83.56
7	5	5	1	0.885023	1	0.139037
			2	0.046780	2	0.159258
			3	0.026609	2	0.174921
			4	0.017308	4	0.188610
			5	0.024280	5	0.629975
			BIAS CORR	0.245764		
			VAR CCEFF	0.024444		0.128484
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.87		71.38
7	5	4	1	0.885306	2	0.226774
			2	0.046782	3	0.175210
			3	0.036897	4	0.188981
			5	0.031015	5	0.631309
			BIAS CORR	0.245162		
			VAR CCEFF	0.024452		0.128762
			EFFICIENCY	99.97		99.79
7	5	3	1	0.910910	2	0.325864
			3	0.058054	4	0.264325
			5	0.031036	5	0.634097
			BIAS CORR	0.244605		
			VAR CCEFF	0.024486		0.129352
			EFFICIENCY	99.83		99.33

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
7	5	2	1	0.932693	2	0.430292
			4	0.067307	5	0.715771
			BIAS CORR	0.236075		
			VAR CCEFF	0.024575		0.130813
			EFFICIENCY	99.47		98.22
7	5	1	1	1.000000	5	0.947331
			BIAS CORR	0.196359		
			VAR CCEFF	0.024986		0.139963
			EFFICIENCY	97.83		91.60
7	4	4	1	0.886389	1	0.173208
			2	0.046823	2	0.198224
			3	0.026602	3	0.217215
			4	0.040187	4	0.976440
			BIAS CORR	0.238408		
			VAR CCEFF	0.024482		0.160721
			EFFICIENCY	100.00		100.00
EFF(M/N)	99.71		57.06			
7	4	3	1	0.886857	2	0.282480
			2	0.061687	3	0.217688
			4	0.051457	4	0.978981
			BIAS CORR	0.237851		
			VAR CCEFF	0.024496		0.161152
EFFICIENCY	99.94		99.73			
7	4	2	1	0.932693	2	0.406031
			4	0.067307	4	1.077033
			BIAS CORR	0.236075		
			VAR CCEFF	0.024575		0.162064
EFFICIENCY	99.62		99.17			
7	4	1	1	1.000000	4	1.271549
			BIAS CORR	0.196359		
			VAR CCEFF	0.024986		0.167352
			EFFICIENCY	97.98		96.04
7	3	3	1	0.888815	1	0.229474
			2	0.046873	2	0.262011

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
			3	0.064312	3	1.507265
			BIAS CORR	0.228720		
			VAR CCEFF	0.024551		0.214546
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.44		42.75
7	3	2	1	0.914472	2	0.373952
			3	0.085528	2	1.512343
			BIAS CORR	0.228150		
			VAR CCEFF	0.024585		0.215304
			EFFICIENCY	99.86		99.65
7	3	1	1	1.000000	2	1.760359
			BIAS CORR	0.196359		
			VAR CCEFF	0.024986		0.218232
			EFFICIENCY	98.26		98.31
7	2	2	1	0.893423	1	0.339649
			2	0.106577	2	2.477198
			BIAS CORR	0.215585		
			VAR CCEFF	0.024682		0.322500
			EFFICIENCY	100.00		100.00
			EFF(M/N)	98.91		28.44
7	2	1	1	1.000000	2	2.654215
			BIAS CORR	0.196359		
			VAR CCEFF	0.024986		0.324162
			EFFICIENCY	98.79		99.49
7	1	1	1	1.000000	1	5.092720
			BIAS CORR	0.196359		
			VAR CCEFF	0.024986		0.648028
			EFFICIENCY	100.00		100.00
			EFF(M/N)	97.70		14.15
8	8	8	1	0.880313	1	0.084929
			2	0.045557	2	0.097098
			3	0.025984	2	0.106428
			4	0.017067	4	0.114589
			5	0.012036	5	0.122384
			6	0.008756	6	0.130493

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
			7	0.006330	7	0.140015
			8	0.003958	8	0.159041
				BIAS CORR		0.080222
				VAR CCEFF		100.00
				EFFICIENCY		100.00
				EFF(M/N)		100.00
8	8	7	1	0.880457	2	0.139018
			2	0.045561	3	0.106490
			3	0.025985	4	0.114686
			4	0.017063	5	0.122499
			5	0.017731	6	0.130622
			7	0.009247	7	0.140156
			8	0.003956	8	0.159203
				BIAS CORR		0.080304
				VAR CCEFF		99.90
				EFFICIENCY		99.90
8	8	6	1	0.880644	2	0.196997
			2	0.045568	4	0.162059
			3	0.025982	5	0.122700
			4	0.024794	6	0.130864
			6	0.018131	7	0.140421
			8	0.005381	8	0.159510
				BIAS CORR		0.080460
				VAR CCEFF		99.70
				EFFICIENCY		99.70
8	8	5	1	0.880959	3	0.259277
			2	0.045576	5	0.171510
			3	0.035693	6	0.131437
			5	0.024857	7	0.141075
			7	0.012917	8	0.160264
				BIAS CORR		0.080844
				VAR CCEFF		99.23
				EFFICIENCY		99.23
8	8	4	1	0.881599	3	0.261523
			2	0.059679	5	0.259287
			4	0.042769	7	0.186546
			7	0.015953	8	0.161694



TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.228944	
				VAR COEFF	0.019719	0.081590
				EFFICIENCY	99.85	98.32
8	8	3	1	0.906259	4	0.425133
			3	0.065660	7	0.228253
			6	0.028082	8	0.165789
				BIAS CORR	0.225169	
				VAR COEFF	0.019750	0.083697
				EFFICIENCY	99.69	95.85
8	8	2	1	0.927233	5	0.539481
			4	0.072767	6	0.236829
				BIAS CORR	0.213193	
				VAR COEFF	0.019829	0.088904
				EFFICIENCY	99.30	90.23
8	8	1	1	1.000000	7	0.657601
				BIAS CORR	0.176464	
				VAR COEFF	0.020179	0.113385
				EFFICIENCY	97.57	70.76
8	7	7	1	0.880589	1	0.097014
			2	0.045569	2	0.110893
			3	0.025989	3	0.121515
			4	0.017058	4	0.130763
			5	0.012033	5	0.139577
			6	0.008745	6	0.148528
			7	0.010007	7	0.328770
				BIAS CORR	0.231351	
				VAR COEFF	0.019696	0.091696
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.97	87.49
8	7	6	1	0.880734	2	0.152801
			2	0.045574	3	0.121603
			3	0.025990	4	0.130894
			4	0.017064	5	0.139728
			5	0.012721	6	0.148656
			7	0.012918	7	0.329151
				BIAS CORR	0.230783	

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION		SCALE				
8	7	6			0.017699		0.091803			
					99.78		99.78			
					0.880958	7	0.229970			
					0.045516	6	0.180067			
					0.030693	5	0.159956			
					0.024067	4	0.150011			
					0.017917	3	0.129976			
		BIAS CORR		0.730413						
		VAN CLEFT		0.019764		0.047007				
		EFFICIENCY		99.16		99.16				
8	7	4			0.081697		0.226101			
					0.041679		0.210518			
					0.027165		0.204176			
					0.016461		0.191601			
					BIAS CORR		0.728596			
					VAN CLEFT		0.017111		0.047307	
					EFFICIENCY		99.88		99.17	
8	7	1			0.011751		0.295768			
					0.044020		0.274719			
					0.028000		0.261651			
					BIAS CORR		0.724169			
					VAN CLEFT		0.011750		0.071618	
					EFFICIENCY		99.17		98.11	
			8	7	2			0.071731		0.061969
		0.017161					0.037067			
		BIAS CORR					0.713193			
		VAN CLEFT					0.013079		0.046717	
		EFFICIENCY					99.11		99.78	
8	7	1						0.060064		0.057601
								0.017064		0.033308
					BIAS CORR		0.020179		0.011308	
					VAN CLEFT		0.020179		0.011308	
					EFFICIENCY		99.10		80.17	
			8	4	4			0.091179		0.111061
								0.045691		0.127172
		0.029796					0.141807			

TABLE 1  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

n	m	L	l	LOCATION	l	SCALE			
4	6	4	4	0.017064	4	0.152179			
			5	0.017010	5	0.167086			
			6	0.016998	6	0.933349			
			BIAS CORR			0.727134			
			VAR CORR			0.017709		0.107017	
			EFFICIENCY			100.00		100.00	
			EFF (M/S)			99.91		99.91	
4	6	5	1	0.001790	1	0.109000			
			2	0.009996	2	0.161996			
			3	0.079999	3	0.197360			
			4	0.079990	4	0.167283			
			5	0.079983	5	0.933083			
			BIAS CORR			0.926716			
			VAR CORR			0.019717		0.107100	
EFFICIENCY			99.98		99.86				
4	6	6	1	0.001789	1	0.727134			
			2	0.009996	2	0.719996			
			3	0.079999	3	0.167283			
			4	0.079983	4	0.933083			
			BIAS CORR			0.726161			
			VAR CORR			0.019717		0.107016	
			EFFICIENCY			99.91		99.81	
6	6	1	1	0.006769	1	0.727136			
			2	0.009991	2	0.119991			
			3	0.079989	3	0.601861			
			BIAS CORR			0.729129			
			VAR CORR			0.019780		0.107111	
			EFFICIENCY			99.77		98.99	
			6	6	2	1	0.071711	1	0.929471
2	0.177167	2				0.617363			
BIAS CORR						0.718191			
VAR CORR						0.017879		0.107187	
EFFICIENCY						99.89		97.98	
6	6	1				1	1.000000	1	0.000000
						BIAS CORR			0.178484
			VAR CORR			0.020179		0.119796	

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE	
				EFFICIENCY		97.66	89.76
8	9	5	1	0.082066	1	0.135401	
			2	0.065625	2	0.156595	
			3	0.076005	3	0.169211	
			4	0.073066	4	0.181579	
			5	0.072717	5	0.062056	
				BIAS CORR	0.271688		0.170478
	VAR CORR	0.019729		100.00			
	EFFICIENCY	100.00		82.99			
	EFFICIENCY	97.66					
8	9	4	1	0.082228	2	0.171501	
			2	0.065677	3	0.173421	
			3	0.065701	4	0.181883	
			4	0.064607	5	0.180413	
				BIAS CORR	0.271518		0.172007
				VAR CORR	0.019716		97.66
	EFFICIENCY	97.66					
8	9	3	1	0.081212	2	0.171915	
			2	0.071519	3	0.175115	
			3	0.065772	4	0.180615	
				BIAS CORR	0.271685		0.172781
				VAR CORR	0.019707		97.66
				EFFICIENCY	97.66		
8	9	2	1	0.072333	2	0.181500	
			2	0.072167	3	0.180528	
				BIAS CORR	0.271511		0.180041
				VAR CORR	0.019723		97.66
				EFFICIENCY	97.66		
8	9	1	1	1.000000	2	1.171591	
				BIAS CORR	0.170518		0.180000
				VAR CORR	0.019719		97.66
				EFFICIENCY	97.66		
8	9	0	1	0.081551	2	0.180015	
			2	0.065925	3	0.192510	
			3	0.076004	4	0.210091	

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

n	M	L	i	LOCATION	i	SCALE
4	4	3	1	0.044764	4	1.175271
			2	0.214742		
			3	0.019763		0.160716
			4	100.00		100.00
				99.63		99.92
6	4	3	1	0.003959	3	0.275859
			2	0.059777	3	0.210427
			3	0.056749	4	1.177930
			4	0.214380		
				0.019772		0.161041
8	4	2	1	0.927233	3	0.391151
			2	0.077147	4	1.275272
			3	0.213173		
			4	0.019829		0.161652
				99.67		99.62
10	4	1	1	1.000000	4	1.961701
			2	0.176624		
			3	0.020179		0.165359
			4	97.96		97.17
12	3	1	1	0.006129	1	0.271376
			2	0.066717	1	0.296727
			3	0.068124	2	1.265956
			4	0.209399		
				0.019877		0.214941
14	3	1	1	0.910569	1	0.166009
			2	0.049532	1	1.194329
			3	0.209616		
			4	0.017967		0.215113
				97.88		99.79
16	3	1	1	1.000000	1	1.979257
			2	0.176624		
			3	0.020179		0.217231

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				98.75		98.75
			EFFICIENCY			
2	2	2	1	0.090887	1	0.330459
			2	0.109113	2	2.805907
			BIAS CORR	0.193830		0.322450
			VAR COEFF	0.017771		100.00
			EFFICIENCY	100.00		24.88
			EFFIM/N	98.75		
2	2	1	1	1.000000	2	2.915517
			BIAS CORR	0.176464		0.323767
			VAR COEFF	0.020119		49.61
			EFFICIENCY	98.75		
2	1	1	1	1.000000	1	5.460711
			BIAS CORR	0.176464		0.481078
			VAR COEFF	0.020119		100.00
			EFFICIENCY	100.00		12.33
			EFFIM/N	98.75		
4	4	4	2	0.017449	1	0.071074
			3	0.026410	2	0.085214
			4	0.035469	3	0.097018
			5	0.044501	4	0.107014
			6	0.053518	5	0.115411
			7	0.062512	6	0.122492
			8	0.071487	7	0.128507
			9	0.080446	8	0.133571
			10	0.089375	9	0.137763
			BIAS CORR	0.211616		0.071265
			VAR COEFF	0.016787		100.00
			EFFICIENCY	100.00		100.00
			EFFIM/N	100.00		
4	4	0	1	0.017568	2	0.121171
			2	0.026619	3	0.097107
			3	0.035664	4	0.097877
			4	0.044707	5	0.109177
			5	0.053751	6	0.111917
			6	0.062797	7	0.116081
			7	0.071841	8	0.121073

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
4	4	3	1	0.003173	5	0.142464
			2	0.217041		
			3	0.016291		0.071340
			4	99.99		99.93
			5			
			6			
			7			
			BIAS CORR			
			VAR COEFF			
			EFFICIENCY			
4	4	4	1	0.077675	2	0.170154
			2	0.044623	4	0.140969
			3	0.025468	5	0.105278
			4	0.016747	6	0.111550
			5	0.017335	7	0.118273
			6	0.013917	8	0.126233
			7	0.004789	9	0.142640
			BIAS CORR			
			VAR COEFF			0.071429
			EFFICIENCY			99.80
4	4	5	1	0.077863	3	0.170934
			2	0.044625	4	0.201943
			3	0.034738	5	0.195612
			4	0.024673	6	0.118494
			5	0.013914	7	0.126232
			6	0.004785	8	0.143005
			7			
			BIAS CORR			
			VAR COEFF			0.071615
			EFFICIENCY			99.75
4	4	6	1	0.078237	2	0.225314
			2	0.050148	3	0.217493
			3	0.035275	4	0.162159
			4	0.018708	5	0.120119
			5	0.010134	6	0.143679
			6			
			7			
			BIAS CORR			
			VAR COEFF			0.071753
			EFFICIENCY			99.68
4	4	7	1	0.078867	2	0.221099
			2	0.050174	3	0.225808
			3	0.034693	4	0.160379
			4	0.021266	5	0.149203
			5			
			6			
			7			
			BIAS CORR			
			VAR COEFF			0.072740

TABLE 1  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	99.84	98.00
4	9	3	1	0.702777	4	0.361280
			3	0.064149	7	0.304209
			6	0.011079	9	0.178388
				BIAS CORR		
				VAR COEFF		0.074517
				EFFICIENCY	99.67	95.61
4	4	2	1	0.423102	2	0.521778
			4	0.076028	4	0.213394
				BIAS CORR		
				VAR COEFF		0.074529
				EFFICIENCY	99.25	89.25
4	4	1	1	1.000000	1	0.624617
				BIAS CORR		
				VAR COEFF		0.102276
				EFFICIENCY	97.56	69.71
4	8	8	1	0.017261	1	0.001325
			2	0.044624	2	0.044624
			3	0.074464	3	0.101970
			4	0.016803	4	0.111490
			5	0.011767	5	0.118983
			6	0.009971	6	0.125030
			7	0.006680	7	0.132240
			8	0.004723	8	0.290436
				BIAS CORR		
				VAR COEFF		0.080708
				EFFICIENCY	100.00	100.00
				EFFICIENCY	99.98	88.28
4	9	7	1	0.477766	2	0.132730
			2	0.494078	3	0.102522
			3	0.274464	4	0.111107
			4	0.016064	5	0.118160
			5	0.011284	6	0.129129
			6	0.013267	7	0.132322
			8	0.010135	8	0.291127
				BIAS CORR		
						0.219416



TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM 1-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				VAN COEFF EFFICIENCY		
				0.016795 99.99		0.080272 99.92
4	8	6	1	0.877886	2	0.141379
			2	0.044637	4	0.158499
			3	0.025466	5	0.118259
			4	0.023679	6	0.125294
			6	0.018703	7	0.132528
			8	0.010134	8	0.241470
				BIAS CORR VAN COEFF EFFICIENCY		
				0.214355 0.016795 97.97		0.080389 99.78
4	8	5	1	0.870237	2	0.141862
			2	0.050148	4	0.227086
			4	0.035275	6	0.174861
			6	0.018704	7	0.132474
			8	0.010116	8	0.242464
				BIAS CORR VAN COEFF EFFICIENCY		
				0.214044 0.016304 99.91		0.080614 99.49
4	8	4	1	0.878867	3	0.223162
			2	0.058176	5	0.244804
			4	0.041493	7	0.182039
			7	0.021764	8	0.243710
				BIAS CORR VAN COEFF EFFICIENCY		
				0.210328 0.016316 99.86		0.081048 98.46
4	8	3	1	0.902112	3	0.328012
			3	0.064149	6	0.310399
			6	0.033079	8	0.342266
				BIAS CORR VAN COEFF EFFICIENCY		
				0.206268 0.016341 99.69		0.082042 97.77
4	8	2	1	0.923102	3	0.481352
			4	0.076848	6	0.340711
				BIAS CORR VAN COEFF		
				0.134679 0.016412		0.084646

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	99.28	94.76
9	8	1	1	1.000000	8	0.624617
				BIAS CORR	0.160596	
				VAR COEFF	0.016713	0.102270
				EFFICIENCY	97.49	78.43
9	7	7	1	0.874060	1	0.094819
			2	0.644647	2	0.100118
			3	0.025476	3	0.118169
			4	0.016404	4	0.126707
			5	0.011966	5	0.134643
			6	0.008861	6	0.142248
			7	0.014191	7	0.466207
				BIAS CORR	0.211736	
				VAR COEFF	0.016301	0.091688
				EFFICIENCY	100.00	100.00
				(11M/4)	99.93	77.75
4	7	6	1	0.878162	2	0.199616
			2	0.644645	3	0.110726
			3	0.025478	4	0.126803
			4	0.016400	5	0.134804
			5	0.011928	6	0.142372
			7	0.017588	7	0.466678
				BIAS CORR	0.211429	
				VAR COEFF	0.016301	0.091772
				EFFICIENCY	99.99	99.51
4	7	3	1	0.878390	2	0.210916
			2	0.644646	4	0.180878
			3	0.016790	5	0.134980
			4	0.024467	6	0.142592
			7	0.017587	7	0.467122
				BIAS CORR	0.211177	
				VAR COEFF	0.016306	0.091718
				EFFICIENCY	99.97	99.75
4	7	4	1	0.878867	2	0.215211
			2	0.098176	4	0.299241
			4	0.041693	6	0.191220

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
			7	0.021264	7	0.468845
			BIAS CORR	0.210328		
			VAR COEFF	0.016316		0.092223
			EFFICIENCY	99.91		99.42
4	7	3	1	0.902772	3	0.285367
			3	0.064149	5	0.279182
			6	0.033079	7	0.526830
			BIAS CORR	0.206248		
			VAR COEFF	0.016343		0.092781
			EFFICIENCY	99.74		98.82
4	7	2	1	0.923102	4	0.458440
			4	0.06898	7	0.584370
			BIAS CORR	0.194679		
			VAR COEFF	0.016412		0.094463
			EFFICIENCY	99.32		97.64
4	7	1	1	1.000000	7	0.800701
			BIAS CORR	0.160996		
			VAR COEFF	0.016713		0.104950
			EFFICIENCY	97.93		87.70
4	6	6	1	0.878711	1	0.130474
			2	0.044668	2	0.125933
			3	0.029484	3	0.137907
			4	0.016607	4	0.147508
			5	0.011951	5	0.156306
			6	0.022378	6	0.681402
			BIAS CORR	0.207531		
			VAR COEFF	0.016313		0.107007
			EFFICIENCY	100.00		100.00
			EFFICIENCY	99.86		66.62
4	6	5	1	0.878837	2	0.141100
			2	0.044671	3	0.137598
			3	0.029482	4	0.147643
			4	0.023676	5	0.156459
			6	0.027333	6	0.604317
			BIAS CORR	0.207271		
			VAR COEFF	0.016315		0.107171

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	l	LOCATION	l	SCALE
				EFFICIENCY	99.77	99.89
4	6	4	1	0.979189	2	0.254630
			2	0.058197	4	0.210632
			4	0.035278	6	0.156703
			6	0.027336	6	0.685558
				BIAS CORR	0.207014	
				VAR COEFF	0.016322	0.107319
				EFFICIENCY	99.94	99.71
4	6	3	1	0.902772	2	0.255513
			3	0.064147	4	0.301764
			6	0.033079	6	0.753151
				BIAS CORR	0.206748	
				VAR COEFF	0.016343	0.107730
				EFFICIENCY	99.91	99.33
4	6	2	1	0.923102	3	0.433671
			4	0.076898	6	0.815801
				BIAS CORR	0.174677	
				VAR COEFF	0.016412	0.108922
				EFFICIENCY	99.40	98.24
4	6	1	1	1.000000	6	1.017577
				BIAS CORR	0.160596	
				VAR COEFF	0.016713	0.110154
				EFFICIENCY	97.60	92.87
4	5	5	1	0.879714	1	0.132271
			2	0.044706	2	0.150642
			3	0.025499	3	0.164534
			4	0.016794	4	0.175976
			5	0.033266	5	0.467979
				BIAS CORR	0.202299	
				VAR COEFF	0.016332	0.118474
				EFFICIENCY	100.00	100.00
				EFF (M/N)	99.74	99.49
4	5	4	1	0.879922	2	0.16977
			2	0.044709	3	0.164671
			3	0.034768	4	0.176122

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
			1	0.040602	1	0.969178
			2	0.202092	2	0.128637
			3	0.016336	3	99.87
			4	99.98	4	
4	3		1	0.880800	1	0.304847
			2	0.069358	2	0.231526
			3	0.049842	3	0.971235
			4	0.201272	4	0.128921
4	5	2	1	0.016357	5	99.65
			2	99.87	6	
			3	0.423102	7	0.401740
			4	0.076898	8	1.053873
4	5	1	1	0.194479	9	0.129524
			2	0.016412	10	99.11
			3	99.51	11	
			4	1.000000	12	1.285403
4	4	1	1	0.160596	13	0.133821
			2	0.016713	14	96.00
			3	97.72	15	
			4	1.000000	16	
4	4	1	1	0.881355	17	0.164662
			2	0.044763	18	0.187789
			3	0.025502	19	0.204204
			4	0.048180	20	1.366501
4	4	1	1	0.195770	21	0.160713
			2	0.016761	22	100.00
			3	100.00	23	44.36
			4	99.55	24	
4	4	1	1	0.881707	25	0.270146
			2	0.058258	26	0.204443
			3	0.039949	27	1.368582
			4	0.115513	28	
4	4	1	1	0.014369	29	0.160966
			2	0.014369	30	99.84
			3	99.96	31	
			4	1.000000	32	
4	4	1	1	0.123102	33	0.374432
			2	0.076898	34	1.465474
			3	0.076898	35	
			4	0.076898	36	

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.124679	
				VAR CCEFF	0.014412	0.161404
				EFFICIENCY	99.70	99.57
9	4	1	1	1.000000	4	1.656134
				BIAS CORR	0.160596	
				VAR CCEFF	0.016713	0.164147
				EFFICIENCY	97.90	97.91
9	3	3	1	0.004639	1	0.218052
			2	0.044833	2	0.247720
			3	0.071127	3	1.984632
				BIAS CORR	0.187466	
				VAR CCEFF	0.016413	0.214541
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.24	33.23
9	3	2	1	0.907559	2	0.357359
			2	0.092441	2	1.988541
				BIAS CORR	0.187197	
				VAR CCEFF	0.016432	0.214584
				EFFICIENCY	99.80	99.70
9	3	1	1	1.000000	3	2.230372
				BIAS CORR	0.160596	
				VAR CCEFF	0.016713	0.216589
				EFFICIENCY	98.20	99.05
9	2	2	1	0.888911	1	0.322587
			2	0.111089	2	3.125122
				BIAS CORR	0.176461	
				VAR CCEFF	0.016506	0.322457
				EFFICIENCY	100.00	100.00
				EFF(M/N)	98.69	22.11
9	2	1	1	1.000000	2	3.295868
				BIAS CORR	0.160596	
				VAR CCEFF	0.016713	0.323468
				EFFICIENCY	98.76	99.70
9	1	1	1	1.000000	1	6.226806

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.160596	
				VAR CCEFF	0.016713	0.640028
				EFFICIENCY	100.00	100.00
				EFF(M/N)	97.46	11.00
10	10	10	1	0.875093	1	0.065129
			2	0.043846	2	0.074160
			3	0.025023	3	0.080932
			4	0.016551	4	0.086674
			5	0.011861	5	0.091911
			6	0.008891	6	0.096964
			7	0.006835	7	0.102114
			8	0.005285	8	0.107730
			9	0.004004	9	0.114578
			10	0.002609	10	0.128908
				BIAS CORR	0.203425	
				VAR CCEFF	0.013749	0.064146
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	100.00
10	10	9	1	0.875162	2	0.107128
			2	0.043848	3	0.080945
			3	0.025023	4	0.086707
			4	0.016553	5	0.091951
			5	0.011857	6	0.097011
			6	0.013050	7	0.107164
			8	0.007895	8	0.107784
			9	0.004003	9	0.114636
			10	0.002609	10	0.128975
				BIAS CORR	0.203189	
				VAR CCEFF	0.013750	0.064179
				EFFICIENCY	99.99	99.95
10	10	8	1	0.875244	2	0.149438
			2	0.043850	4	0.124415
			3	0.025027	5	0.092001
			4	0.016546	6	0.097092
			5	0.017007	7	0.102242
			7	0.013970	8	0.107873
			9	0.005748	9	0.114731
			10	0.002608	10	0.129083

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.202891	
				VAR CCEFF	0.013751	0.064203
				EFFICIENCY	99.98	99.86
10	10	7	1	0.875760	2	0.149130
			2	0.043857	4	0.175972
			3	0.025022	6	0.137177
			4	0.023168	7	0.102367
			6	0.018184	8	0.108043
			8	0.010908	9	0.114905
			10	0.003501	10	0.129284
				BIAS CORR	0.202374	
				VAR CCEFF	0.013753	0.064374
				EFFICIENCY	99.97	99.71
10	10	6	1	0.875574	3	0.197380
			2	0.043860	5	0.187980
			3	0.033971	7	0.142855
			5	0.024451	8	0.108307
			7	0.013952	9	0.115235
			9	0.008183	10	0.129652
				BIAS CORR	0.200730	
				VAR CCEFF	0.013756	0.064519
				EFFICIENCY	99.94	99.42
10	10	5	1	0.875963	2	0.251541
			2	0.056939	6	0.237258
			4	0.034804	8	0.148366
			6	0.022783	9	0.115859
			9	0.009917	10	0.130354
				BIAS CORR	0.199920	
				VAR CCEFF	0.013743	0.064893
				EFFICIENCY	99.90	98.85
10	10	4	1	0.876720	4	0.307312
			2	0.056970	7	0.253345
			4	0.046574	9	0.153358
			8	0.015736	10	0.131718
				BIAS CORR	0.196273	
				VAR CCEFF	0.013775	0.065569
				EFFICIENCY	99.81	97.83



TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE	
10	10	3	1	0.899096	5	0.368636	
			3	0.069947	8	0.279017	
			7	0.030157	10	0.161889	
			BIAS CORR		0.193377		
			VAR CCEFF		0.013797		0.067267
			EFFICIENCY		99.65		95.36
			10	10	2	1	0.919864
4	0.000136	10				0.194898	
BIAS CORR		0.179376					
VAR CCEFF		0.013859					0.072182
EFFICIENCY		99.21					88.87
10	10	1	1	1.000000	8	0.760205	
			BIAS CORR		0.147614		
			VAR CCEFF		0.014121		0.093487
			EFFICIENCY		97.37		68.61
10	9	9	1	0.875260	1	0.072346	
			2	0.043853	2	0.082370	
			3	0.025027	3	0.025086	
			4	0.016553	4	0.096242	
			5	0.011862	5	0.102041	
			6	0.008890	6	0.107591	
			7	0.006833	7	0.113276	
			8	0.005278	8	0.119270	
			9	0.006443	9	0.261106	
			BIAS CORR		0.201440		
			VAR CCEFF		0.013751		0.071278
EFFICIENCY		100.00		100.00			
EFF(M/N)		99.98		89.99			
10	9	8	1	0.875329	2	0.118999	
			2	0.043856	3	0.089905	
			3	0.025027	4	0.096284	
			4	0.016555	5	0.102091	
			5	0.011858	6	0.107649	
			6	0.013047	7	0.113338	
			8	0.007887	8	0.119337	
			9	0.006440	9	0.261254	

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

M	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR CCEFF		0.071319
				EFFICIENCY	99.99	99.94
10	9	7	1	0.875410	2	0.166008
			2	0.043858	4	0.178179
			3	0.025031	5	0.102156
			4	0.016548	6	0.107750
			5	0.017007	7	0.113435
			7	0.013962	8	0.119447
			9	0.008183	9	0.261497
				BIAS CORR		
				VAR CCEFF		0.071386
				EFFICIENCY	99.98	99.85
10	9	6	1	0.875574	2	0.166250
			2	0.043860	4	0.195461
			3	0.023971	6	0.152285
			5	0.024451	7	0.113593
			7	0.013962	8	0.119656
			9	0.008183	9	0.261944
				BIAS CORR		
				VAR CCEFF		0.071510
				EFFICIENCY	99.96	99.68
10	9	5	1	0.875963	2	0.219353
			2	0.056930	5	0.208803
			4	0.034804	7	0.158628
			6	0.022383	8	0.119985
			9	0.009912	9	0.262775
				BIAS CORR		
				VAR CCEFF		0.071739
				EFFICIENCY	99.97	99.36
10	9	4	1	0.876720	2	0.279701
			2	0.056970	6	0.263673
			4	0.046574	8	0.164555
			8	0.019736	9	0.264407
				BIAS CORR		
				VAR CCEFF		0.072200
				EFFICIENCY	99.83	98.72

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE	
10	9	3	1	0.899896	4	0.342037	
			3	0.069947	7	0.281587	
			7	0.030157	9	0.307743	
				BIAS CORR	0.193377		
				VAR CCEFF	0.013797		0.073054
				EFFICIENCY	99.67		97.60
		10	9	2	1	0.919864	6
4	0.080136				9	0.353257	
				BIAS CORR	0.179386		
				VAR CCEFF	0.013859		0.075773
				EFFICIENCY	99.23		94.07
10	9	1	1	1.000000	8	0.760205	
			BIAS CORR	0.147614			
			VAR CCEFF	0.014121		0.093487	
			EFFICIENCY	97.39		76.24	
10	8	8	1	0.875566	1	0.081347	
			2	0.043867	2	0.092612	
			3	0.025034	3	0.101022	
			4	0.016556	4	0.108167	
			5	0.011861	5	0.114567	
			6	0.008889	6	0.120871	
			7	0.006823	7	0.126880	
			8	0.011404	8	0.413373	
			BIAS CORR	0.198765			
			VAR CCEFF	0.013756		0.080202	
			EFFICIENCY	100.00		100.00	
	EFF(M/N)	99.95		79.58			
10	8	7	1	0.875635	2	0.133607	
			2	0.043870	3	0.101050	
			3	0.025033	4	0.108222	
			4	0.016558	5	0.114631	
			5	0.011856	6	0.120945	
			6	0.013040	7	0.126958	
			8	0.014007	8	0.413636	
				BIAS CORR	0.198526		
	VAR CCEFF	0.013757		0.080254			

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				99.99		99.99
			EFFICIENCY			
10	8	6	1	0.875740	2	0.187665
			2	0.043874	4	0.155028
			3	0.025031	5	0.114718
			4	0.023172	6	0.121072
			6	0.018177	7	0.127081
			8	0.014006	8	0.414067
			BIAS CORR	0.198349		
			VAR CCEFF	0.013759		0.080338
			EFFICIENCY	99.98		99.83
10	8	5	1	0.876027	2	0.186977
			2	0.043878	4	0.219701
			3	0.033979	6	0.171119
			5	0.029375	7	0.127285
			8	0.016741	8	0.414868
			BIAS CORR	0.197719		
			VAR CCEFF	0.013764		0.080495
			EFFICIENCY	99.95		99.64
10	8	4	1	0.876720	3	0.246761
			2	0.056970	5	0.234713
			4	0.046574	7	0.177067
			8	0.019736	8	0.416293
			BIAS CORR	0.196523		
			VAR CCEFF	0.013775		0.080784
			EFFICIENCY	99.87		99.28
10	8	3	1	0.899896	3	0.314831
			3	0.069947	6	0.296416
			7	0.030157	8	0.468359
			BIAS CORR	0.193377		
			VAR CCEFF	0.013797		0.081365
			EFFICIENCY	99.71		98.57
10	8	2	1	0.919864	5	0.454046
			4	0.080136	8	0.520860
			BIAS CORR	0.179386		
			VAR CCEFF	0.013859		0.083049
			EFFICIENCY	99.26		96.57

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
10	8	1	1	1.000000	8	0.760205
			BIAS CORR	0.147614		
			VAR CCEFF	0.014121		0.093487
			EFFICIENCY	97.42		85.79
10	7	7	1	0.876051	1	0.092890
			2	0.043887	2	0.105703
			3	0.025043	3	0.115320
			4	0.016556	4	0.123294
			5	0.011863	5	0.130785
			6	0.008875	6	0.137403
			7	0.017724	7	0.596315
			BIAS CORR	0.195418		
			VAR CCEFF	0.013764		0.091683
			EFFICIENCY	100.00		100.00
		EFF(M/N)	99.89		69.96	
10	7	6	1	0.876130	2	0.152758
			2	0.043889	3	0.115362
			3	0.025046	4	0.123368
			4	0.016552	5	0.130870
			5	0.017001	6	0.137499
			7	0.021382	7	0.596746
			BIAS CORR	0.195225		
			VAR CCEFF	0.013765		0.091751
			EFFICIENCY	99.99		99.93
			10	7	5	1
2	0.043891	4				0.177171
3	0.033988	5				0.130988
5	0.024446	6				0.137664
7	0.021382	7				0.597445
BIAS CORR	0.195049					
VAR CCEFF	0.013768					0.091861
EFFICIENCY	99.97					99.81
10	7	4	1	0.876735	2	0.213548
			2	0.056978	4	0.250742
			4	0.040853	6	0.194861
			7	0.025434	7	0.598717

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.194482	
				VAR CCEFF	0.013775	0.092066
				EFFICIENCY	99.92	99.58
10	7	3	1	0.899896	3	0.281863
			3	0.069947	5	0.267781
			7	0.030157	7	0.658231
				BIAS CORR	0.193377	
				VAR CCEFF	0.013797	0.092440
				EFFICIENCY	99.76	99.18
10	7	2	1	0.919864	4	0.436805
			4	0.080136	7	0.717360
				BIAS CORR	0.179386	
				VAR CCEFF	0.013859	0.093593
				EFFICIENCY	99.32	97.96
10	7	1	1	1.000000	7	0.940995
				BIAS CORR	0.147614	
				VAR CCEFF	0.014121	0.100374
				EFFICIENCY	97.47	91.34
10	6	6	1	0.876784	1	0.108198
			2	0.043918	2	0.123121
			3	0.025053	3	0.134117
			4	0.016564	4	0.143645
			5	0.011847	5	0.151640
			6	0.025834	6	0.825418
				BIAS CORR	0.191324	
				VAR CCEFF	0.013776	0.107003
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.81	59.55
10	6	5	1	0.876888	2	0.177952
			2	0.043922	3	0.134182
			3	0.025050	4	0.143748
			4	0.023173	5	0.151756
			6	0.030966	6	0.826109
				BIAS CORR	0.191147	
				VAR CCEFF	0.013777	0.107095
				EFFICIENCY	99.99	99.91

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
10	6	4	1	0.877207	2	0.248224
			2	0.057004	4	0.206369
			4	0.034818	5	0.151922
			6	0.030971	6	0.827239
			BIAS CORR	0.190960		
			VAR CCEFF	0.013782		0.107244
			EFFICIENCY	99.95		99.78
10	6	3	1	0.900035	2	0.248752
			3	0.062947	4	0.291799
			6	0.037018	6	0.895304
			BIAS CORR	0.190427		
			VAR CCEFF	0.013799		0.107519
			EFFICIENCY	99.83		99.52
			10	6	2	1
4	0.080136	6				0.962273
BIAS CORR	0.179386					
VAR CCEFF	0.013859					0.108375
EFFICIENCY	99.40					98.73
10	6	1	1	1.000000	6	1.159397
			BIAS CORR	0.147614		
			VAR CCEFF	0.014121		0.112897
			EFFICIENCY	97.56		94.78
10	5	5	1	0.877890	1	0.125529
			2	0.043958	2	0.147219
			3	0.025072	3	0.160554
			4	0.016552	4	0.171205
			5	0.036527	5	1.127014
			BIAS CORR	0.186331		
			VAR CCEFF	0.013793		0.128471
			EFFICIENCY	100.00		100.00
			EFF(H/N)	99.68		49.93
10	5	4	1	0.878054	2	0.212854
			2	0.043960	3	0.160659
			3	0.034014	4	0.171356
			5	0.043972	5	1.128131

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.136155	
				VAR COEFF	0.013796	0.128602
				EFFICIENCY	99.98	99.90
10	5	3	1	0.878841	2	0.297112
			2	0.067684	4	0.246398
			5	0.053475	9	1.129930
				BIAS CORR	0.185588	
				VAR COEFF	0.013808	0.128615
				EFFICIENCY	99.89	99.73
10	5	2	1	0.919866	2	0.391829
			4	0.080136	9	1.211966
				BIAS CORR	0.179386	
				VAR COEFF	0.013859	0.129349
				EFFICIENCY	99.53	99.32
10	5	1	1	1.000000	9	1.462137
				BIAS CORR	0.147614	
				VAR COEFF	0.014121	0.132480
				EFFICIENCY	97.68	96.97
10	4	4	1	0.879595	1	0.161204
			2	0.044021	2	0.183248
			3	0.025079	3	0.195190
			4	0.051305	4	1.551656
				BIAS CORR	0.180181	
				VAR COEFF	0.013820	0.160711
				EFFICIENCY	100.00	100.00
				EFFICIENCY	95.68	89.91
10	4	3	1	0.879914	2	0.265048
			2	0.057118	3	0.199389
			4	0.062968	4	1.553548
				BIAS CORR	0.179994	
				VAR COEFF	0.013829	0.160914
				EFFICIENCY	97.96	99.87
10	4	2	1	0.919866	2	0.369702
			4	0.080136	4	1.646443
				BIAS CORR	0.179386	



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY	0.013859 99.72	0.161243 99.67
10	4	1	1	1.000000	4	1.837956
				BIAS CORR VAR CCEFF EFFICIENCY	0.147614 0.014121 97.87	0.163360 98.38
10	3	3	1	0.887367	1	0.213448
			2	0.044099	2	0.242078
			3	0.073535	3	2.212782
				BIAS CORR VAR CCEFF EFFICIENCY EFF (M/N)	0.172437 0.013864 100.00 99.17	0.214539 100.00 29.90
10	3	2	1	0.905175	2	0.350526
			3	0.094825	2	2.216272
				BIAS CORR VAR CCEFF EFFICIENCY	0.172242 0.013879 99.89	0.214895 99.83
10	3	1	1	1.000000	2	2.455013
				BIAS CORR VAR CCEFF EFFICIENCY	0.147614 0.014121 98.19	0.216152 99.25
10	2	2	1	0.887329	1	0.315722
			2	0.112671	2	3.436520
				BIAS CORR VAR CCEFF EFFICIENCY EFF (M/N)	0.162241 0.013944 100.00 98.60	0.322496 100.00 19.89
10	2	1	1	1.000000	2	3.504509
				BIAS CORR VAR CCEFF EFFICIENCY	0.147614 0.014121 98.75	0.323274 99.76
10	1	1	1	1.000000	1	6.774408
				BIAS CORR	0.147614	

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF	0.014121	0.648028
				EFFICIENCY	100.00	100.00
				EFF(M/N)	97.37	9.90

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE	
2	2	2	1	0.877049	1	0.400535	
			2	0.122951	2	0.624369	
				BIAS CORR	0.650838		
				VAR CCEFF	0.144482		0.227522
				EFFICIENCY	100.00		100.00
				EFF(M/N)	100.00		100.00
2	2	1	1	1.000000	2	0.808540	
				BIAS CORR	0.568694		
				VAR CCEFF	0.149093		0.247837
				EFFICIENCY	96.91		91.80
2	1	1	1	1.000000	1	1.758415	
				BIAS CORR	0.568694		
				VAR CCEFF	0.149093		0.460999
				EFFICIENCY	100.00		100.00
			EFF(M/N)	96.91		49.35	
3	3	3	1	0.825555	1	0.232979	
			2	0.110534	2	0.315865	
			3	0.063912	3	0.441603	
				BIAS CORR	0.542711		
				VAR CCEFF	0.092617		0.150762
				EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00	
3	3	2	1	0.835667	2	0.420994	
			2	0.164333	3	0.450628	
				BIAS CORR	0.500401		
				VAR CCEFF	0.083695		0.154029
			EFFICIENCY	98.71		97.88	
3	3	1	1	1.000000	2	0.696307	
				BIAS CORR	0.433995		
				VAR CCEFF	0.086820		0.177966
			EFFICIENCY	95.15		84.71	
3	2	2	1	0.835667	1	0.344432	
			2	0.164333	2	1.014826	
				BIAS CORR	0.500401		
			VAR CCEFF	0.083695		0.227344	

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				EFFICIENCY		66.31
				EFF(M/N)		
3	2	1	1	1.000000	2	1.193186
				BIAS CORR		
				0.433995		
				VAR CCEFF		0.234561
				0.086830		
				EFFICIENCY		96.92
				96.39		
3	1	1	1	1.000000	1	2.304176
				BIAS CORR		
				0.433995		
				VAR CCEFF		0.460998
				0.086830		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		32.70
				95.15		
4	4	4	1	0.797104	1	0.158949
			2	0.099396	2	0.209494
			3	0.063199	3	0.258541
			4	0.040300	4	0.343869
				BIAS CORR		
				0.478968		
				VAR CCEFF		0.112671
				0.055586		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		100.00
				100.00		
4	4	3	1	0.801127	2	0.286068
			2	0.141858	3	0.260393
			4	0.057015	4	0.346681
				BIAS CORR		
				0.470693		
				VAR CCEFF		0.113624
				0.055885		
				EFFICIENCY		99.16
				99.47		
4	4	2	1	0.863137	3	0.424437
			3	0.136103	4	0.361049
				BIAS CORR		
				0.448135		
				VAR CCEFF		0.118566
				0.056413		
				EFFICIENCY		95.03
				98.53		
4	4	1	1	1.000000	4	0.634300
				BIAS CORR		
				0.358255		
				VAR CCEFF		0.142930
				0.059168		
				EFFICIENCY		78.83
				93.95		

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE			
4	3	3	1	0.802583	1	0.210761			
			2	0.099770	2	0.276354			
			3	0.097648	3	0.130824			
			BIAS CORR	0.452608					
			VAR CCEFF	0.055979		0.150636			
			EFFICIENCY	100.00		100.00			
			EFF(M/N)	99.30		74.80			
4	3	2	1	0.863137	2	0.378887			
			3	0.136863	2	0.738420			
			BIAS CORR	0.448135					
			VAR CCEFF	0.056413		0.152315			
			EFFICIENCY	99.23		98.90			
			4	3	1	1.000000	2	0.985251	
			BIAS CORR	0.358255					
VAR CCEFF	0.059168		0.161103						
EFFICIENCY	94.61		93.50						
4	2	2	1	0.815150	1	0.310791			
			2	0.184850	2	1.343978			
			BIAS CORR	0.414257					
			VAR CCEFF	0.056901		0.227293			
			EFFICIENCY	100.00		100.00			
			EFF(M/N)	97.69		49.57			
			4	2	1	1.000000	2	1.512368	
BIAS CORR	0.358255								
VAR CCEFF	0.059168		0.230962						
EFFICIENCY	96.17		98.41						
4	1	1	1	1.000000	1	2.791310			
			BIAS CORR	0.358255					
			VAR CCEFF	0.059168		0.460999			
			EFFICIENCY	100.00		100.00			
			EFF(M/N)	93.95		24.44			
			5	5	5	1	0.778628	1	0.118297
						2	0.092024	2	0.153590
3	0.059190	3				0.184891			
4	0.041881	4				0.218818			

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
			5	0.022277	5	0.282553
			BIAS CORR	0.435651		
			VAR CCEFF	0.040887		0.089928
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
5	5	4	1	0.780002	2	0.213219
			2	0.092162	3	0.185458
			3	0.088058	4	0.219647
			5	0.038979	5	0.283741
			BIAS CORR	0.430060		
			VAR CCEFF	0.041004		0.090301
			EFFICIENCY	99.71		99.59
5	5	3	1	0.784336	2	0.325419
			2	0.127217	4	0.292118
			4	0.088448	5	0.287503
			BIAS CORR	0.414282		
			VAR CCEFF	0.041196		0.091563
			EFFICIENCY	99.25		98.21
5	5	2	1	0.840789	3	0.484440
			3	0.159211	5	0.358313
			BIAS CORR	0.389900		
			VAR CCEFF	0.041683		0.095440
			EFFICIENCY	98.09		94.22
5	5	1	1	1.000000	5	0.593755
			BIAS CORR	0.308735		
			VAR CCEFF	0.043941		0.121673
			EFFICIENCY	93.05		73.91
5	4	4	1	0.782045	1	0.147480
			2	0.092337	2	0.191082
			3	0.059760	3	0.229071
			4	0.066359	4	0.576528
			BIAS CORR	0.417364		
			VAR CCEFF	0.041069		0.112586
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.56		79.87

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE	
5	4	3	1	0.784336	2	0.265686	
			2	0.127217	3	0.230003	
			4	0.088448	4	0.579377	
			BIAS CORR		0.414282		
			VAR CCEFF		0.041196		0.113167
			EFFICIENCY		99.69		99.49
5	4	2	1	0.840789	2	0.406145	
			3	0.159211	4	0.675477	
			BIAS CORR		0.389900		
			VAR CCEFF		0.041683		0.115114
			EFFICIENCY		98.53		97.80
5	4	1	1	1.000000	4	0.872655	
			BIAS CORR		0.308735		
			VAR CCEFF		0.043941		0.124860
			EFFICIENCY		93.46		90.17
5	3	3	1	0.789097	1	0.195173	
			2	0.092857	2	0.251746	
			3	0.118045	3	0.976977	
			BIAS CORR		0.391905		
			VAR CCEFF		0.041449		0.150593
			EFF(M/N)		100.00		100.00
		98.64		59.72			
5	3	2	1	0.840789	2	0.351031	
			3	0.159211	3	0.983111	
			BIAS CORR		0.389900		
			VAR CCEFF		0.041683		0.151612
			EFFICIENCY		99.44		99.33
5	3	1	1	1.000000	3	1.221697	
			BIAS CORR		0.308735		
			VAR CCEFF		0.043941		0.156159
			EFFICIENCY		94.33		96.41
5	2	2	1	0.802893	1	0.287397	
			2	0.197107	2	1.637988	
			BIAS CORR		0.357538		
			VAR CCEFF		0.042204		0.227272

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		96.88
5	2	1	1	1.000000	2	1.797477
				BIAS CORR		0.308735
				VAR CCEFF		0.043941
				EFFICIENCY		96.05
5	1	1	1	1.000000	1	3.239029
				BIAS CORR		0.308735
				VAR CCEFF		0.043941
				EFFICIENCY		100.00
				EFF(M/N)		93.05
6	6	6	1	0.765451	1	0.092963
			2	0.086861	2	0.119563
			3	0.055907	3	0.142090
			4	0.040297	4	0.164322
			5	0.030261	5	0.185881
			6	0.021223	6	0.240413
				BIAS CORR		0.403703
				VAR CCEFF		0.031819
				EFFICIENCY		100.00
				EFF(M/N)		100.00
6	6	5	1	0.766668	2	0.167891
			2	0.086939	3	0.142293
			3	0.080307	4	0.164660
			5	0.044863	5	0.190301
			6	0.021223	6	0.240968
				BIAS CORR		0.401520
				VAR CCEFF		0.031871
				EFFICIENCY		99.84
6	6	4	1	0.768396	2	0.246700
			2	0.117671	4	0.225680
			4	0.085110	5	0.191323
			6	0.028823	6	0.242386
				BIAS CORR		0.398156
				VAR CCEFF		0.031946
				EFFICIENCY		99.60



TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE	
6	6	3	1	0.815027	3	0.352270	
			3	0.121352	5	0.254823	
			5	0.063621	6	0.245977	
			BIAS CORR	0.387046			
			VAR COEFF	0.032114		0.076610	
			EFFICIENCY	99.08		97.66	
6	6	2	1	0.860177	4	0.483359	
			4	0.139823	6	0.308379	
				BIAS CORR	0.366449		
			VAR COEFF	0.032539		0.080335	
			EFFICIENCY	97.79		93.13	
6	6	1	1	1.000000	5	0.800351	
				BIAS CORR	0.273400		
				VAR COEFF	0.034459		0.103242
				EFFICIENCY	92.34		72.47
6	5	5	1	0.767787	1	0.111393	
			2	0.087092	2	0.143124	
			3	0.056014	3	0.169796	
			4	0.040295	4	0.195682	
			5	0.048811	5	0.478450	
			BIAS CORR	0.390115			
			VAR COEFF	0.031917		0.089867	
			EFFICIENCY	100.00		100.00	
			EFF(M/N)	99.69		83.25	
6	5	4	1	0.769004	2	0.201124	
			2	0.087170	3	0.170115	
			3	0.080413	4	0.196162	
			4	0.063412	5	0.479753	
			5	0.063412			
			BIAS CORR	0.387932			
	VAR COEFF	0.031969		0.090119			
	EFFICIENCY	99.84		99.72			
6	5	3	1	0.815027	2	0.295685	
			3	0.121352	4	0.269419	
			5	0.063621	5	0.483027	
				BIAS CORR	0.387046		

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY		0.090770 99.00
6	5	2	1	0.860177	2	0.422685
			4	0.139823	5	0.564157
				BIAS CORR		
				VAR CCEFF		0.092436
				EFFICIENCY		97.22
6	5	1	1	1.000000	5	0.800351
				BIAS CORR		
				VAR CCEFF		0.103242
				EFFICIENCY		87.05
6	4	4	1	0.772284	1	0.138711
			2	0.087495	2	0.177855
			3	0.056150	3	0.210258
			4	0.084071	4	0.776398
				BIAS CORR		
				VAR CCEFF		0.112553
				EFFICIENCY		100.00
				EFF(M/N)		66.17
6	4	3	1	0.773896	2	0.250246
			2	0.118311	3	0.210793
			4	0.107793	4	0.778966
				BIAS CORR		
				VAR CCEFF		0.112944
				EFFICIENCY		99.65
6	4	2	1	0.860177	2	0.368026
			4	0.139823	4	0.874826
				BIAS CORR		
				VAR CCEFF		0.113946
				EFFICIENCY		98.78
6	4	1	1	1.000000	4	1.065099
				BIAS CORR		
				VAR CCEFF		0.119376
				EFFICIENCY		94.28

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
6	3	3	1	0.780203	1	0.183361
			2	0.088108	2	0.234209
			3	0.131689	3	1.197649
			BIAS CORR	0.348019		
			VAR CCEFF	0.032443		0.150573
			EFFICIENCY	100.00		100.00
			EFF(M/N)	98.08		49.69
6	3	2	1	0.826759	2	0.330250
			3	0.173241	3	1.202677
			BIAS CORR	0.346990		
			VAR CCEFF	0.032592		0.151257
			EFFICIENCY	99.54		99.55
6	3	1	1	1.000000	3	1.432282
			BIAS CORR	0.273400		
			VAR CCEFF	0.034458		0.154081
			EFFICIENCY	94.15		97.72
6	2	2	1	0.794744	1	0.269778
			2	0.205256	2	1.908167
			BIAS CORR	0.316916		
			VAR CCEFF	0.033069		0.227261
			EFFICIENCY	100.00		100.00
			EFF(M/N)	96.22		32.92
6	2	1	1	1.000000	2	2.060115
			BIAS CORR	0.273400		
			VAR CCEFF	0.034458		0.228743
			EFFICIENCY	95.97		99.35
6	1	1	1	1.000000	1	3.657651
			BIAS CORR	0.273400		
			VAR CCEFF	0.034458		0.460958
			EFFICIENCY	100.00		100.00
			EFF(M/N)	92.34		16.23
7	7	7	1	0.755462	1	0.075838
			2	0.083054	2	0.096901
			3	0.053330	3	0.114239
			4	0.038665	4	0.130561

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
			5	0.029665	5	0.147559
			6	0.023143	6	0.167892
			7	0.016492	7	0.209528
			BIAS CORR	0.378853		
			VAR COEFF	0.025744		0.064049
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
7	7	6	1	0.756204	2	0.137202
			2	0.043115	3	0.114314
			3	0.053344	4	0.130710
			4	0.056947	5	0.147753
			6	0.033706	6	0.168127
			7	0.016677	7	0.209824
			BIAS CORR	0.377222		
			VAR COEFF	0.025770		0.064142
EFFICIENCY	99.90		99.85			
7	7	5	1	0.757210	2	0.147466
			2	0.043193	4	0.142457
			3	0.075222	5	0.140141
			5	0.021986	6	0.168627
			7	0.022350	7	0.210485
			BIAS CORR	0.374541		
			VAR COEFF	0.025805		0.064347
			EFFICIENCY	99.74		97.54
7	7	4	1	0.759152	3	0.228425
			2	0.111342	5	0.203444
			4	0.081015	6	0.169839
			6	0.048415	7	0.212082
			BIAS CORR	0.365792		
			VAR COEFF	0.025873		0.064846
			EFFICIENCY	97.50		98.77
			7	7	3	1
3	0.137329	6				0.227207
6	0.059767	7				0.216267
BIAS CORR	0.362253					
VAR COEFF	0.026013					0.066167
EFFICIENCY	98.96					96.80

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE		
7	7	2	1	0.845357	5	0.479702		
			4	0.154643	7	0.272776		
			BIAS CORR			0.337687		
			VAR CCEFF			0.026377		0.069811
			EFFICIENCY			97.60		91.75
7	7	1	1	1.000000	6	0.749188		
			BIAS CORR			0.246693		
			VAR CCEFF			0.028056		0.088849
			EFFICIENCY			91.76		72.09
7	6	6	1	0.757165	1	0.088398		
			2	0.083227	2	0.112891		
			3	0.053424	3	0.132972		
			4	0.038706	4	0.151746		
			5	0.029644	5	0.171014		
			6	0.037835	6	0.410171		
			BIAS CORR			0.368268		
			VAR CCEFF			0.025802		0.074772
			EFFICIENCY			100.00		100.00
			EFF(M/N)			99.77		85.66
7	6	5	1	0.757910	2	0.159904		
			2	0.083287	3	0.133091		
			3	0.053442	4	0.151954		
			4	0.056976	5	0.171280		
			6	0.048386	6	0.410849		
			BIAS CORR			0.366642		
			EFFICIENCY			99.90		99.83
7	6	4	1	0.759153	2	0.230185		
			2	0.111302	4	0.212309		
			4	0.081015	5	0.171829		
			6	0.048435	6	0.412316		
			BIAS CORR			0.365792		
			EFFICIENCY			99.73		99.46
7	6	3	1	0.802904	3	0.325176		

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
			3	0.137729	5	0.236386
			6	0.059767	6	0.415866
			BIAS CORR	0.362297		
			VAR CCEFF	0.026015		0.075854
			EFFICIENCY	99.18		98.57
7	6	2	1	0.845357	4	0.430186
			4	0.154643	6	0.488388
			BIAS CORR	0.333687		
			VAR CCEFF	0.026377		0.077650
			EFFICIENCY	97.82		96.23
7	6	1	1	1.000000	6	0.749188
			BIAS CORR	0.246699		
			VAR CCEFF	0.028056		0.080849
			EFFICIENCY	91.97		84.16
7	5	5	1	0.760281	1	0.105851
			2	0.093525	2	0.135026
			3	0.053570	3	0.152785
			4	0.038739	4	0.180668
			5	0.063886	5	0.648083
			BIAS CORR	0.354261		
			VAR CCEFF	0.025909		0.085842
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.36		71.29
7	5	4	1	0.761121	2	0.191383
			2	0.083579	3	0.158979
			3	0.075465	4	0.180975
			5	0.079934	5	0.649346
			BIAS CORR	0.353131		
			VAR CCEFF	0.025939		0.090023
			EFFICIENCY	99.89		99.80
7	5	3	1	0.803738	2	0.275528
			3	0.116193	4	0.252243
			5	0.080069	5	0.652042
			BIAS CORR	0.352693		
			VAR CCEFF	0.026040		0.090420
			EFFICIENCY	99.50		99.36

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE	
7	5	2	1	0.845357	2	0.389291	
			4	0.154643	5	0.734091	
				BIAS CORR	0.333687		
				VAR CCEFF	0.026377		0.091389
				EFFICIENCY	98.23		98.31
7	5	1	1	1.000000	5	0.965126	
				BIAS CORR	0.246699		
				VAR CCEFF	0.028056		0.097488
				EFFICIENCY	92.35		92.16
7	4	4	1	0.765413	1	0.131704	
			2	0.093982	2	0.167692	
			3	0.053755	3	0.196609	
			4	0.096851	4	0.956364	
				BIAS CORR	0.336669		
				VAR CCEFF	0.026087		0.112537
				EFFICIENCY	100.00		100.00
	EFF(M/N)	93.69		56.91			
7	4	3	1	0.766677	2	0.237927	
			2	0.112252	3	0.196942	
			4	0.121071	4	0.958628	
				BIAS CORR	0.335783		
				VAR CCEFF	0.026132		0.112817
	EFFICIENCY	99.83		99.75			
7	4	2	1	0.845357	2	0.342508	
			4	0.154643	4	1.052247	
				BIAS CORR	0.333687		
				VAR CCEFF	0.026377		0.113426
				EFFICIENCY	98.90		99.22
7	4	1	1	1.000000	4	1.235776	
				BIAS CORR	0.246699		
				VAR CCEFF	0.028056		0.116921
				EFFICIENCY	92.98		96.25
7	3	3	1	0.773891	1	0.173970	
			2	0.084657	2	0.220776	

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
			3	0.141453	3	1.400754
			BIAS CORR	0.314608		
			VAR CCEFF	0.026382		0.150562
			EFFICIENCY	100.00		100.00
			EFF(M/N)	97.58		42.54
7	3	2	1	0.817096	3	0.313786
			3	0.182904	3	1.404963
			BIAS CORR	0.314048		
			VAR CCEFF	0.026485		0.151052
			EFFICIENCY	99.61		99.68
7	3	1	1	1.000000	3	1.626227
			BIAS CORR	0.246699		
			VAR CCEFF	0.028056		0.152969
			EFFICIENCY	94.03		98.43
7	2	2	1	0.788933	1	0.255822
			2	0.211067	2	2.160695
			BIAS CORR	0.286148		
			VAR CCEFF	0.026910		0.227255
			EFFICIENCY	100.00		100.00
			EFF(M/N)	95.67		28.18
7	2	1	1	1.000000	2	2.306244
			BIAS CORR	0.246699		
			VAR CCEFF	0.028056		0.228316
			EFFICIENCY	95.91		99.54
7	1	1	1	1.000000	1	4.053531
			BIAS CORR	0.246699		
			VAR CCEFF	0.028056		0.460959
			EFFICIENCY	100.00		100.00
			EFF(M/N)	91.76		13.89
8	8	8	1	0.747559	1	0.063581
			2	0.080131	2	0.080847
			3	0.051284	3	0.094787
			4	0.037237	4	0.107533
			5	0.026811	5	0.120206
			6	0.022993	6	0.133897



TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
			7	0.018424	7	0.150616
			8	0.013560	8	0.185895
			BIAS CORR	0.358781		
			VAR CCEFF	0.021430		0.055950
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
8	8	7	1	0.748060	2	0.115190
			2	0.080175	3	0.094812
			3	0.051306	4	0.107606
			4	0.037240	5	0.120305
			5	0.043154	6	0.134018
			7	0.026512	7	0.150757
			8	0.013554	8	0.186072
			BIAS CORR	0.357514		
			VAR CCEFF	0.021445		0.056043
			EFFICIENCY	99.93		99.90
8	8	6	1	0.748701	2	0.163622
			2	0.080218	4	0.152048
			3	0.071486	5	0.120484
			5	0.059513	6	0.134246
			7	0.026520	7	0.151027
			8	0.013562	8	0.186418
			BIAS CORR	0.356854		
			VAR CCEFF	0.021464		0.056149
			EFFICIENCY	99.84		99.72
8	8	5	1	0.749756	3	0.230190
			2	0.106468	5	0.168415
			4	0.077830	6	0.134793
			6	0.047876	7	0.151686
			8	0.018069	8	0.187255
			BIAS CORR	0.354966		
			VAR CCEFF	0.021455		0.056000
			EFFICIENCY	99.70		99.26
8	8	4	1	0.751923	3	0.232040
			2	0.106719	5	0.254516
			4	0.094578	7	0.200771
			7	0.046781	8	0.188839

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
				0.345460		0.056909
				0.021558		98.38
				99.41		
8	8	3	1	0.793572	4	0.397768
			3	0.130961	7	0.245692
			6	0.075467	8	0.193399
				BIAS CORR		
				0.335868		
				VAR CCEFF		0.058328
				0.021676		95.99
				EFFICIENCY		
				98.87		
8	8	2	1	0.834859	5	0.527597
			4	0.165102	6	0.275380
				BIAS CORR		
				0.306989		
				VAR CCEFF		0.061818
				0.022010		90.57
				EFFICIENCY		
				97.37		
8	8	1	1	1.000000	7	0.710640
				BIAS CORR		
				0.225686		
				VAR CCEFF		0.078552
				0.023481		71.28
				EFFICIENCY		
				91.27		
8	7	7	1	0.748859	1	0.072620
			2	0.080263	2	0.092311
			3	0.051362	3	0.108181
			4	0.037282	4	0.122628
			5	0.028827	5	0.136902
			6	0.022968	6	0.152065
			7	0.030439	7	0.359704
				BIAS CORR		
				0.350247		
				VAR CCEFF		0.064016
				0.021468		100.00
				EFFICIENCY		100.00
				100.00		87.46
				EFF(M/N)		
				99.83		
8	7	6	1	0.749359	2	0.131553
			2	0.080307	3	0.108224
			3	0.051383	4	0.122727
			4	0.037284	5	0.137034
			5	0.043154	6	0.152223
			6	0.038513	7	0.260092
			7	0.038513		
				BIAS CORR		
				0.348983		

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				0.021482		0.064086
				99.93		99.89
8	7	5	1	0.750002	2	0.186887
			2	0.080349	4	0.173502
			3	0.071587	5	0.137273
			5	0.059533	6	0.152523
			7	0.038528	7	0.360846
				0.348318		
				0.021501		0.064224
				99.84		99.68
8	7	4	1	0.751923	3	0.262980
			2	0.106719	5	0.192076
			4	0.094578	6	0.153240
			7	0.046781	7	0.362675
				0.345460		
				0.021558		0.064558
				99.58		99.16
8	7	3	1	0.793572	3	0.265401
			3	0.130961	5	0.290302
			6	0.075467	7	0.420573
				0.335868		
				0.021676		0.065209
				99.04		98.17
8	7	2	1	0.824859	4	0.455849
			4	0.165141	7	0.478046
				0.306988		
				0.022010		0.067064
				97.54		95.46
8	7	1	1	1.000000	7	0.710640
				0.225686		
				0.023481		0.078552
				91.43		81.49
8	6	6	1	0.751149	1	0.084610
			2	0.080488	2	0.107495
			3	0.051484	3	0.125836

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
			4	0.037343	4	0.142464
			5	0.028826	5	0.158629
			6	0.050709	6	0.558228
				BIAS CORR		0.339132
				VAR CCEFF		0.021534
				EFFICIENCY		100.00
				EFF(M/N)		99.52
8	6	5	1	0.751657	2	0.153243
			2	0.080530	3	0.125909
			3	0.051497	4	0.142605
			4	0.053932	5	0.158809
			6	0.062385	6	0.558922
				BIAS CORR		0.338274
				VAR CCEFF		0.021549
				EFFICIENCY		99.93
8	6	4	1	0.752697	2	0.217694
			2	0.106848	4	0.201745
			4	0.078012	5	0.159141
			6	0.062442	6	0.560261
				BIAS CORR		0.337744
				VAR CCEFF		0.021580
				EFFICIENCY		99.70
8	6	3	1	0.793572	3	0.306345
			3	0.130961	5	0.223024
			6	0.075467	6	0.563506
				BIAS CORR		0.335868
				VAR CCEFF		0.021676
				EFFICIENCY		99.34
8	6	2	1	0.834859	4	0.401046
			4	0.165141	6	0.637141
				BIAS CORR		0.306988
				VAR CCEFF		0.022010
				EFFICIENCY		97.84
8	6	1	1	1.000000	6	0.894801
				BIAS CORR		0.225686
				VAR CCEFF		0.023481

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	i	SCALE
				EFFICIENCY	91.71	90.09
8	5	5	1	0.754747	1	0.101265
			2	0.080825	2	0.128493
			3	0.051658	3	0.150229
			4	0.037405	4	0.169631
			5	0.075365	5	0.801482
				BIAS CORR		
				0.325451		
				VAR CCEFF		0.085829
				EFFICIENCY		100.00
				EFF(M/N)		62.33
8	5	4	1	0.755354	2	0.183291
			2	0.080868	3	0.150353
			3	0.071928	4	0.165840
			5	0.091810	5	0.802656
				BIAS CORR		
				0.324775		
				VAR CCEFF		0.089966
				EFFICIENCY		99.85
8	5	3	1	0.795616	2	0.260376
			3	0.112325	4	0.240572
			5	0.092059	5	0.804894
				BIAS CORR		
				0.324574		
				VAR CCEFF		0.090232
				EFFICIENCY		99.55
8	5	2	1	0.834859	3	0.366353
			4	0.165141	5	0.885573
				BIAS CORR		
				0.306988		
				VAR CCEFF		0.090879
				EFFICIENCY		98.85
8	5	1	1	1.000000	5	1.110602
				BIAS CORR		
				0.225686		
				VAR CCEFF		0.094845
				EFFICIENCY		94.71
8	4	4	1	0.760307	1	0.125921
			2	0.081320	2	0.159531
			3	0.051878	3	0.186011

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
			4	0.106495	4	1.122394
			BIAS CORR	0.308769		
			VAR CCEFF	0.021799		0.112527
			EFFICIENCY	100.00		100.00
			EFF(M/N)	98.31		49.76
8	4	3	1	0.761363	2	0.227753
			2	0.107834	3	0.186230
			4	0.130803	4	1.124390
			BIAS CORR	0.308210		
			VAR CCEFF	0.021831		0.112738
			EFFICIENCY	99.86		99.81
8	4	2	1	0.834859	2	0.323448
			4	0.165141	4	1.215357
			BIAS CORR	0.306988		
			VAR CCEFF	0.022010		0.113147
			EFFICIENCY	99.04		99.45
8	4	1	1	1.000000	4	1.392750
			BIAS CORR	0.225686		
			VAR CCEFF	0.023481		0.115595
			EFFICIENCY	92.84		97.35
8	3	3	1	0.769177	1	0.166249
			2	0.082039	2	0.209999
			3	0.148784	3	1.590730
			BIAS CORR	0.288186		
			VAR CCEFF	0.022058		0.150556
			EFFICIENCY	100.00		100.00
			EFF(M/N)	97.15		37.19
8	3	2	1	0.810022	2	0.300240
			3	0.189978	3	1.594319
			BIAS CORR	0.287882		
			VAR CCEFF	0.022135		0.150924
			EFFICIENCY	99.65		99.76
8	3	1	1	1.000000	2	1.608089
			BIAS CORR	0.225686		
			VAR CCEFF	0.023481		0.152310

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	93.94	98.85
8	2	2	1	0.784581	1	0.244372
			2	0.215419	2	2.399409
				BIAS CORR	0.261998	
				VAR CCEFF	0.022512	0.227251
				EFFICIENCY	100.00	100.00
				EFF(M/N)	95.20	24.64
8	2	1	1	1.000000	2	2.539464
				BIAS CORR	0.225686	
				VAR CCEFF	0.023481	0.228047
				EFFICIENCY	95.87	99.65
8	1	1	1	1.000000	1	4.430929
				BIAS CORR	0.225686	
				VAR CCEFF	0.023481	0.460959
				EFFICIENCY	100.00	100.00
				EFF(M/N)	91.27	12.15
9	9	9	1	0.741106	1	0.054426
			2	0.077815	2	0.068949
			3	0.049631	3	0.080509
			4	0.036024	4	0.090873
			5	0.027975	5	0.100874
			6	0.022541	6	0.111157
			7	0.018491	7	0.122530
			8	0.015111	8	0.136677
			9	0.011306	9	0.167202
				BIAS CORR	0.342114	
				VAR CCEFF	0.018231	0.049731
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	100.00
9	9	8	1	0.741445	2	0.098717
			2	0.077843	3	0.080513
			3	0.049647	4	0.090911
			4	0.036025	5	0.100928
			5	0.041105	6	0.111225
			7	0.027520	7	0.122608
			8	0.015108	8	0.136767

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE			
9	9	7	1	0.741844	2	0.138956			
			2	0.077881	4	0.129575			
			3	0.049656	5	0.101014			
			4	0.051471	6	0.111346			
			6	0.046281	7	0.122742			
			8	0.021558	8	0.136328			
			9	0.011304	9	0.167513			
			BIAS CORR	0.340579					
			VAR CCEFF	0.018250		0.049424			
			EFFICIENCY	99.90		99.81			
9	9	6	1	0.742465	2	0.135229			
			2	0.077925	4	0.185663			
			3	0.068662	6	0.155387			
			5	0.057580	7	0.123011			
			7	0.038408	8	0.137254			
			9	0.014960	9	0.167427			
			BIAS CORR	0.339013					
			VAR CCEFF	0.018265		0.049950			
			EFFICIENCY	99.81		99.56			
			9	9	5	1	0.743771	3	0.195960
2	0.102879	5				0.208648			
4	0.075386	7				0.168432			
6	0.046315	8				0.137831			
8	0.031643	9				0.168675			
BIAS CORR	0.333189								
VAR CCEFF	0.018298					0.050178			
EFFICIENCY	99.63					99.11			
9	9	4				1	0.746243	3	0.253818
						2	0.103171	6	0.275270
			4	0.070424	8	0.182728			
			7	0.060161	9	0.170393			
			BIAS CORR	0.323211					
			VAR CCEFF	0.018360		0.050710			



TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		98.07
				99.30		
9	9	3	1	0.786320	4	0.330932
			3	0.142695	7	0.316325
			7	0.070984	9	0.209825
				BIAS CORR		
				0.320401		
				VAR CCEFF		0.051932
				0.018462		
				EFFICIENCY		95.76
				98.75		
9	9	2	1	0.849375	6	0.522770
			5	0.150625	9	0.249324
				BIAS CORR		
				0.298284		
				VAR CCEFF		0.055272
				0.018761		
				EFFICIENCY		89.97
				97.18		
9	9	1	1	1.000000	8	0.680294
				BIAS CORR		
				0.208643		
				VAR CCEFF		0.070803
				0.020068		
				EFFICIENCY		70.24
				90.85		
9	8	8	1	0.742134	1	0.061202
			2	0.077919	2	0.077521
			3	0.049693	3	0.090484
			4	0.036064	4	0.102104
			5	0.027998	5	0.113246
			6	0.022546	6	0.124651
			7	0.018466	7	0.137047
			8	0.025179	8	0.320782
				BIAS CORR		
				0.335048		
				VAR CCEFF		0.055963
				0.018257		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		88.86
				99.86		
9	8	7	1	0.742473	2	0.111003
			2	0.077947	3	0.090497
			3	0.049709	4	0.102155
			4	0.036066	5	0.113316
			5	0.041131	6	0.124738
			7	0.027498	7	0.137145
			8	0.025177	8	0.321020
				BIAS CORR		
				0.334373		

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				0.018265		0.056005
				99.95		99.92
				VAR CCEFF		
				EFFICIENCY		
9	8	6	1	0.742876	2	0.156255
			2	0.077985	4	0.145635
			3	0.049719	5	0.112429
			4	0.051524	6	0.124892
			6	0.046280	7	0.137316
			8	0.031616	8	0.321448
				BIAS CORR		
				0.333515		
				VAR CCEFF		0.056081
				EFFICIENCY		99.79
9	8	5	1	0.743771	2	0.156610
			2	0.102879	4	0.208679
			4	0.075386	6	0.174398
			6	0.046315	7	0.137659
			8	0.031649	8	0.322327
				BIAS CORR		
				0.333189		
				VAR CCEFF		0.056240
				EFFICIENCY		99.51
9	8	4	1	0.746243	3	0.220495
			2	0.103171	5	0.234450
			4	0.090424	7	0.188723
			7	0.060161	8	0.323902
				BIAS CORR		
				0.323211		
				VAR CCEFF		0.056528
				EFFICIENCY		99.00
9	8	3	1	0.786720	3	0.285891
			3	0.142695	6	0.309302
			7	0.070984	8	0.376364
				BIAS CORR		
				0.320401		
				VAR CCEFF		0.057198
				EFFICIENCY		97.84
9	8	2	1	0.849375	5	0.460059
			5	0.150625	8	0.428735
				BIAS CORR		
				0.298284		
				VAR CCEFF		0.058946
				0.018761		

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	97.31	94.94
9	8	1	1	1.000000	8	0.680294
				BIAS CORR	0.208643	
				VAR CCEFF	0.020068	0.070803
				EFFICIENCY	90.97	79.04
9	7	7	1	0.743892	1	0.069888
			2	0.078092	2	0.088472
			3	0.049796	3	0.103256
			4	0.036122	4	0.116352
			5	0.028026	5	0.128956
			6	0.022533	6	0.141586
			7	0.041540	7	0.491469
				BIAS CORR	0.325965	
				VAR CCEFF	0.018300	0.064000
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.62	77.70
9	7	6	1	0.744230	2	0.126720
			2	0.078120	3	0.103281
			3	0.049812	4	0.116422
			4	0.036123	5	0.129049
			5	0.041152	6	0.141699
			7	0.050564	7	0.491882
				BIAS CORR	0.325290	
				VAR CCEFF	0.018309	0.064055
				EFFICIENCY	99.95	99.91
9	7	5	1	0.744756	2	0.178398
			2	0.078155	4	0.166076
			3	0.068842	5	0.129202
			5	0.057663	6	0.141901
			7	0.050583	7	0.492617
				BIAS CORR	0.324856	
				VAR CCEFF	0.018322	0.064154
				EFFICIENCY	99.88	99.76
9	7	4	1	0.746243	2	0.178871
			2	0.103171	4	0.237978
			4	0.090424	6	0.198366

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
			7	0.060161	7	0.494114
			BIAS CORR	0.323211		
			VAR CCEFF	0.018360		0.064360
			EFFICIENCY	99.68		99.44
9	7	3	1	0.786320	2	0.251955
			3	0.142695	5	0.267162
			7	0.070984	7	0.554179
			BIAS CORR	0.320401		
			VAR CCEFF	0.018462		0.064733
			EFFICIENCY	99.12		98.87
9	7	2	1	0.849375	4	0.417801
			5	0.150625	7	0.613635
			BIAS CORR	0.298284		
			VAR CCEFF	0.018761		0.065864
			EFFICIENCY	97.55		97.17
9	7	1	1	1.000000	7	0.842115
			BIAS CORR	0.208643		
			VAR CCEFF	0.020068		0.072647
			EFFICIENCY	91.19		88.10
9	6	6	1	0.746556	1	0.081389
			2	0.078351	2	0.103013
			3	0.049934	3	0.120014
			4	0.036202	4	0.135200
			5	0.028043	5	0.149432
			6	0.060915	6	0.692649
			BIAS CORR	0.314949		
			VAR CCEFF	0.018366		0.074742
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.27		66.54
9	6	5	1	0.746941	2	0.147576
			2	0.078383	3	0.120059
			3	0.049943	4	0.135300
			4	0.051678	5	0.149570
			6	0.073054	6	0.692320
			BIAS CORR	0.314424		
			VAR CCEFF	0.018376		0.074816

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	99.95	99.90
9	6	4	1	0.747845	2	0.207700
			2	0.103390	4	0.193067
			4	0.075648	5	0.149774
			6	0.073117	6	0.694514
				BIAS CORR	0.314077	
				VAR CCEFF	0.018399	0.074950
				EFFICIENCY	99.82	99.72
9	6	3	1	0.786697	2	0.208352
			3	0.126313	4	0.276553
			6	0.086990	6	0.761948
				BIAS CORR	0.312968	
				VAR CCEFF	0.018470	0.075227
				EFFICIENCY	99.44	99.36
9	6	2	1	0.849375	3	0.377368
			5	0.150625	6	0.827903
				BIAS CORR	0.298284	
				VAR CCEFF	0.018761	0.076026
				EFFICIENCY	97.90	98.31
9	6	1	1	1.000000	6	1.022779
				BIAS CORR	0.208643	
				VAR CCEFF	0.020069	0.080230
				EFFICIENCY	91.52	93.16
9	5	5	1	0.750490	1	0.097382
			2	0.078713	2	0.123056
			3	0.050131	3	0.143305
			4	0.036284	4	0.160969
			5	0.084383	5	0.943362
				BIAS CORR	0.301780	
				VAR CCEFF	0.018464	0.089821
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.74	55.37
9	5	4	1	0.751021	2	0.176409
			2	0.078749	3	0.143386
			3	0.069247	4	0.161119

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
			5	0.100984	5	0.944437
			BIAS CORR	0.301336		
			VAR CCEFF	0.018477		0.089928
			EFFICIENCY	99.97		99.88
9	5	3	1	0.789468	2	0.248298
			3	0.109291	4	0.230186
			5	0.101241	5	0.946327
			BIAS CORR	0.301273		
			VAR CCEFF	0.018536		0.090119
			EFFICIENCY	99.61		99.67
9	5	2	1	0.849375	2	0.348823
			5	0.150625	5	1.025018
			BIAS CORR	0.298284		
			VAR CCEFF	0.018761		0.090586
			EFFICIENCY	98.42		99.16
9	5	1	1	1.000000	5	1.244141
			BIAS CORR	0.208643		
			VAR CCEFF	0.020068		0.093387
			EFFICIENCY	92.01		96.18
9	4	4	1	0.756361	1	0.121032
			2	0.079236	2	0.152769
			3	0.050377	3	0.177419
			4	0.114027	4	1.277900
			BIAS CORR	0.285980		
			VAR CCEFF	0.018610		0.112521
			EFFICIENCY	100.00		100.00
			EFF(M/N)	97.97		44.20
9	4	3	1	0.757280	2	0.219140
			2	0.104461	3	0.177568
			4	0.138259	4	1.279665
			BIAS CORR	0.285604		
			VAR CCEFF	0.018633		0.112686
			EFFICIENCY	99.87		99.85
9	4	2	1	0.827009	2	0.308316
			4	0.172991	4	1.368014

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.284889	
				VAR CCEFF	0.018771	0.112979
				EFFICIENCY	99.14	99.59
9	4	1	1	1.000000	4	1.539899
				BIAS CORR	0.208643	
				VAR CCEFF	0.020068	0.114793
				EFFICIENCY	92.73	98.02
9	3	3	1	0.765523	1	0.159739
			2	0.079986	2	0.201073
			3	0.154490	2	1.770372
				BIAS CORR	0.266682	
				VAR CCEFF	0.018839	0.150551
				EFFICIENCY	100.00	100.00
				EFF(M/N)	96.78	33.03
9	3	2	1	0.804614	2	0.288797
			3	0.195386	2	1.773480
				BIAS CORR	0.266529	
				VAR CCEFF	0.018899	0.150838
				EFFICIENCY	99.68	99.81
9	3	1	1	1.000000	2	1.980556
				BIAS CORR	0.208643	
				VAR CCEFF	0.020068	0.151888
				EFFICIENCY	93.88	99.12
9	2	2	1	0.781199	1	0.234733
			2	0.218801	2	2.626854
				BIAS CORR	0.242205	
				VAR CCEFF	0.019234	0.227248
				EFFICIENCY	100.00	100.00
				EFF(M/N)	94.79	21.88
9	2	1	1	1.000000	2	2.762172
				BIAS CORR	0.208643	
				VAR CCEFF	0.020068	0.227868
				EFFICIENCY	95.84	99.73
9	1	1	1	1.000000	1	4.792875

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR CCEFF		0.460998
				EFFICIENCY		100.00
				EFF(M/N)		10.77
10	10	10	1	0.735708	1	0.047360
			2	0.075932	2	0.059820
			3	0.048270	3	0.069632
			4	0.034994	4	0.078303
			5	0.027220	5	0.086504
			6	0.022028	6	0.094684
			7	0.019267	7	0.103287
			8	0.015282	8	0.112970
			9	0.012683	9	0.125186
			10	0.009617	10	0.152032
				BIAS CORR		
				VAR CCEFF		0.044730
				EFFICIENCY		100.00
				EFF(M/N)		100.00
10	10	9	1	0.735948	2	0.085981
			2	0.075957	3	0.069627
			3	0.048276	4	0.078324
			4	0.035006	5	0.086534
			5	0.027216	6	0.094726
			6	0.032763	7	0.103333
			8	0.022539	8	0.113023
			9	0.012680	9	0.125246
			10	0.009617	10	0.152105
				BIAS CORR		
				VAR CCEFF		0.044751
				EFFICIENCY		99.95
10	10	8	1	0.736233	2	0.120224
			2	0.075974	4	0.112360
			3	0.048304	5	0.086574
			4	0.034994	6	0.094803
			5	0.039531	7	0.103399
			7	0.037378	8	0.113117
			9	0.017972	9	0.125345
			10	0.009614	10	0.152229



TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.326721	
				VAR CCEFF	0.015789	0.044788
				EFFICIENCY	99.93	99.87
10	10	7	1	0.736646	2	0.120358
			2	0.076023	4	0.158967
			3	0.048302	6	0.133968
			4	0.049628	7	0.103521
			6	0.045023	8	0.113286
			8	0.031719	9	0.125525
			10	0.012658	10	0.152460
				BIAS CORR	0.325412	
				VAR CCEFF	0.015798	0.044857
				EFFICIENCY	99.87	99.72
10	10	6	1	0.737441	3	0.169223
			2	0.099839	5	0.176971
			4	0.073246	7	0.144566
			6	0.045055	8	0.113539
			8	0.031748	9	0.125970
			10	0.012670	10	0.152874
				BIAS CORR	0.325206	
				VAR CCEFF	0.015816	0.044981
				EFFICIENCY	99.76	99.44
10	10	5	1	0.738671	3	0.215866
			2	0.099993	6	0.231690
			4	0.073332	8	0.155613
			6	0.056286	9	0.126526
			9	0.031717	10	0.153719
				BIAS CORR	0.318678	
				VAR CCEFF	0.015843	0.045235
				EFFICIENCY	99.59	98.88
10	10	4	1	0.775739	4	0.276828
			3	0.121985	7	0.256145
			6	0.070467	9	0.167653
			9	0.031809	10	0.155209
				BIAS CORR	0.318064	
				VAR CCEFF	0.015897	0.045691
				EFFICIENCY	99.25	97.90

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE	
10	10	3	1	0.780213	5	0.345742	
			3	0.137617	5	0.292279	
			7	0.082170	10	0.190392	
				BIAS CORR	0.301737		
				VAR CCEFF	0.015990		0.046832
				EFFICIENCY	98.67		95.51
		10	10	2	1	0.841057	7
5	0.158943				10	0.228658	
				BIAS CORR	0.279660		
				VAR CCEFF	0.016257		0.050145
				EFFICIENCY	97.06		89.20
10	10	1	1	1.000000	5	0.655619	
				BIAS CORR	0.194491		
				VAR CCEFF	0.017439		0.064747
				EFFICIENCY	90.48		69.08
10	9	9	1	0.736544	1	0.052605	
			2	0.076016	2	0.066432	
			3	0.048322	3	0.077328	
			4	0.035027	4	0.086909	
			5	0.027244	5	0.096011	
			6	0.022039	6	0.104988	
			7	0.018267	7	0.114423	
			8	0.015259	8	0.124842	
			9	0.021283	9	0.289750	
			BIAS CORR	0.322003			
			VAR CCEFF	0.015796		0.049710	
	EFFICIENCY	100.00		100.00			
	EFF(M/N)	99.89		89.58			
10	9	8	1	0.736783	2	0.095496	
			2	0.076041	3	0.077326	
			3	0.048327	4	0.086936	
			4	0.035039	5	0.096050	
			5	0.027239	6	0.105040	
			6	0.032774	7	0.114480	
			8	0.022516	8	0.124908	
			9	0.021260	9	0.289944	

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE			
				BIAS CORR	0.321453				
				VAR CCEFF	0.015801	0.049736			
				EFFICIENCY	99.97	99.55			
10	9	7	1	0.737067	2	0.133538			
			2	0.076058	4	0.124747			
			3	0.048356	5	0.096103			
			4	0.035028	6	0.105135			
			5	0.039561	7	0.114563			
			7	0.037369	8	0.125023			
			9	0.026561	9	0.290203			
						BIAS CORR	0.320752		
						VAR CCEFF	0.015807	0.049782	
						EFFICIENCY	99.93	99.86	
10	9	6	1	0.737515	2	0.133708			
			2	0.076087	4	0.176514			
			3	0.066440	6	0.148035			
			5	0.056003	7	0.114717			
			7	0.037381	8	0.125230			
			9	0.026573	9	0.290681			
						BIAS CORR	0.320461		
						VAR CCEFF	0.015817	0.049866	
						EFFICIENCY	99.87	99.69	
			10	9	5	1	0.738671	3	0.138021
2	0.094993	5				0.196373			
4	0.073332	7				0.160291			
6	0.056286	8				0.125547			
9	0.031717	9				0.291562			
						BIAS CORR	0.318678		
						VAR CCEFF	0.015843	0.050019	
						EFFICIENCY	99.71	99.38	
10	9	4				1	0.775739	2	0.239967
						3	0.121989	6	0.257234
			6	0.070467	8	0.172288			
			9	0.031809	9	0.293307			
						BIAS CORR	0.318064		
						VAR CCEFF	0.015897	0.050332	
						EFFICIENCY	99.36	98.76	

TABLE 7

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE	
10	9	3	1	0.780213	4	0.307971	
			3	0.137617	7	0.284309	
			7	0.082170	9	0.340655	
			BIAS CORR		0.301737		
			VAR COEFF		0.015990		0.050893
			EFFICIENCY		98.78		97.69
			10	9	2	1	0.841057
5	0.158963	9				0.390185	
BIAS CORR		0.279660					
VAR COEFF		0.016257					0.052739
EFFICIENCY		97.17					94.26
10	9	1	1	1.000000	9	0.651619	
			BIAS CORR		0.194491		
			VAR COEFF		0.017439		0.064747
			EFFICIENCY		90.59		76.77
10	8	0	1	0.737936	1	0.059142	
			2	0.076155	2	0.074636	
			3	0.048400	3	0.086876	
			4	0.035085	4	0.097658	
			5	0.027270	5	0.107672	
			6	0.022054	6	0.117753	
			7	0.018250	7	0.128002	
			8	0.014849	8	0.439745	
			BIAS CORR		0.314405		
			VAR COEFF		0.015820		0.055951
EFFICIENCY		100.00		100.00			
EFFICIENCY		99.70		79.56			
10	8	7	1	0.739176	2	0.107378	
			2	0.076180	3	0.086840	
			3	0.048406	4	0.097739	
			4	0.035097	5	0.107722	
			5	0.027265	6	0.117820	
			6	0.022779	7	0.128073	
			8	0.042047	8	0.440007	
			BIAS CORR		0.318897		
VAR COEFF		0.015831		0.055905			

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				99.97		99.94
			EFFICIENCY			
10	8	6	1	0.738487	2	0.150117
			2	0.076208	4	0.140214
			3	0.048412	5	0.107793
			4	0.049728	6	0.117938
			6	0.045061	7	0.128181
			8	0.042105	8	0.440452
			BIAS CORR	0.313513		
			VAR COEFF	0.015838		0.056042
			EFFICIENCY	99.97		99.84
10	8	5	1	0.739285	2	0.150339
			2	0.100078	4	0.198317
			4	0.073399	6	0.166764
			6	0.045093	7	0.128379
			8	0.042144	8	0.441267
			BIAS CORR	0.313294		
			VAR COEFF	0.015856		0.056149
			EFFICIENCY	99.81		99.65
10	8	4	1	0.741427	3	0.211443
			2	0.100302	5	0.220506
			4	0.100673	7	0.179579
			8	0.057598	8	0.442701
			BIAS CORR	0.309767		
			VAR COEFF	0.015902		0.056342
			EFFICIENCY	99.52		99.31
10	8	3	1	0.780713	3	0.269981
			3	0.137617	6	0.288793
			7	0.082170	8	0.497190
			BIAS CORR	0.301737		
			VAR COEFF	0.015990		0.056736
			EFFICIENCY	98.97		98.62
10	8	2	1	0.841057	3	0.422551
			5	0.158943	8	0.551954
			BIAS CORR	0.279660		
			VAR COEFF	0.016257		0.057867
			EFFICIENCY	97.35		96.69

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE			
10	8	1	1	1.000000	6	0.800859			
			BIAS CORR	0.194491					
			VAR COEFF	0.017438		0.064908			
			EFFICIENCY	90.76		86.20			
10	7	7	1	0.739993	1	0.067531			
			2	0.076350	2	0.085169			
			3	0.048527	3	0.099187			
			4	0.035142	4	0.111144			
			5	0.027317	5	0.122724			
			6	0.022050	6	0.133736			
			7	0.050621	7	0.611527			
			BIAS CORR	0.305299					
			VAR COEFF	0.015870		0.063992			
			EFFICIENCY	100.00		100.00			
			EFF(M/N)	99.42		69.90			
10	7	5	1	0.740249	2	0.122497			
			2	0.076369	3	0.099200			
			3	0.048543	4	0.111196			
			4	0.035140	5	0.122751			
			5	0.027335	6	0.133823			
			7	0.050064	7	0.611728			
			BIAS CORR	0.304881					
			VAR COEFF	0.015876		0.064036			
			EFFICIENCY	99.97		99.93			
			10	7	5	1	0.740700	2	0.171343
						2	0.076398	4	0.159743
3	0.066685	5				0.122890			
4	0.056130	6				0.133477			
7	0.060087	7				0.612620			
BIAS CORR	0.304583								
VAR COEFF	0.015885					0.064110			
EFFICIENCY	99.90					99.81			
10	7	4				1	0.741934	2	0.171641
						2	0.100352	4	0.227042
						4	0.047322	6	0.185689
			7	0.070352	7	0.613808			

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.303526	
				VAR CCEFF	0.015913	0.064249
				EFFICIENCY	99.73	99.60
10	7	3	1	0.780213	3	0.241396
			3	0.137617	5	0.251196
			7	0.082170	7	0.673865
				BIAS CORR	0.301737	
				VAR CCEFF	0.015990	0.064499
				EFFICIENCY	99.25	99.21
10	7	2	1	0.841057	4	0.392753
			5	0.158943	7	0.733326
				BIAS CORR	0.279660	
				VAR CCEFF	0.016257	0.065275
				EFFICIENCY	97.62	98.03
10	7	1	1	1.000000	7	0.957165
				BIAS CORR	0.194491	
				VAR CCEFF	0.017438	0.069840
				EFFICIENCY	91.01	91.63
10	6	6	1	0.742925	1	0.078597
			2	0.076637	2	0.095228
			3	0.048667	3	0.115094
			4	0.035747	4	0.129310
			5	0.027341	5	0.142142
			6	0.064182	6	0.817287
				BIAS CORR	0.294569	
				VAR CCEFF	0.015934	0.074735
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.07	99.85
10	6	5	1	0.743239	2	0.142688
			2	0.076665	3	0.119122
			3	0.048673	4	0.129384
			4	0.049918	5	0.142236
			6	0.081506	6	0.817922
				BIAS CORR	0.294719	
				VAR CCEFF	0.015940	0.074759
				EFFICIENCY	99.96	99.92

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE			
10	6	4	1	0.744045	2	0.199411			
			2	0.100665	4	0.185756			
			4	0.073718	5	0.142376			
			6	0.081572	6	0.818986			
			BIAS CORR	0.293983					
			VAR CCEFF	0.015958		0.074896			
			EFFICIENCY	99.84		99.79			
10	6	3	1	0.781382	2	0.199823			
			3	0.122722	4	0.262655			
			6	0.095896	6	0.885171			
			BIAS CORR	0.293293					
			VAR CCEFF	0.016014		0.075082			
			EFFICIENCY	99.50		99.54			
			10	6	2	1	0.841057	3	0.357282
5	0.158943	6				0.950151			
BIAS CORR	0.279660								
VAR CCEFF	0.015257					0.075656			
EFFICIENCY	98.01					98.78			
10	6	1				1	1.000000	6	1.140001
						BIAS CORR	0.194491		
			VAR CCEFF	0.017438		0.078688			
			EFFICIENCY	91.37		94.98			
			10	5	5	1	0.747112	1	0.094040
						2	0.077013	2	0.118417
						3	0.048888	3	0.137543
4	0.035339	4				0.152879			
5	0.091647	5				1.076461			
BIAS CORR	0.281947								
VAR CCEFF	0.016024					0.089816			
EFFICIENCY	100.00		100.00						
EFF (M/N)	48.47		44.80						
10	5	4	1	0.747567	2	0.170443			
			2	0.077043	3	0.137597			
			3	0.067134	4	0.152951			
			5	0.108256	5	1.077443			



TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.281638	
				VAR CCEFF	0.016034	0.089902
				EFFICIENCY	99.94	99.90
10	5	3	1	0.749630	2	0.238300
			2	0.121359	4	0.221424
			5	0.129011	5	1.079063
				BIAS CORR	0.280796	
				VAR CCEFF	0.016080	0.090045
				EFFICIENCY	99.65	99.75
10	5	2	1	0.841057	3	0.334629
			5	0.158943	5	1.155656
				BIAS CORR	0.279660	
				VAR CCEFF	0.016257	0.090400
				EFFICIENCY	98.57	99.35
10	5	1	1	1.000000	5	1.369220
				BIAS CORR	0.194491	
				VAR CCEFF	0.017438	0.092490
				EFFICIENCY	91.89	97.11
10	4	4	1	0.753218	1	0.116819
			2	0.077560	2	0.147037
			3	0.049151	3	0.170240
			4	0.120071	4	1.425065
				BIAS CORR	0.266959	
				VAR CCEFF	0.016156	0.112517
				EFFICIENCY	100.00	100.00
				EFF(M/N)	97.66	39.75
10	4	3	1	0.754042	2	0.211711
			2	0.101796	3	0.170344
			4	0.144162	4	1.426645
				BIAS CORR	0.266697	
				VAR CCEFF	0.016175	0.112649
				EFFICIENCY	99.89	99.88
10	4	2	1	0.820906	2	0.295824
			4	0.179094	4	1.512527
				BIAS CORR	0.266296	

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY		0.11287C 99.69
10	4	1	1	1.000000 BIAS CORR VAR CCEFF EFFICIENCY	4	1.679467 0.114269 98.47
10	3	3	1	0.762607	1	0.154142
			2	0.078335	2	0.193501
			3	0.159058	3	1.941584
				BIAS CORR VAR CCEFF EFFICIENCY EFF(M/N)		0.248781 0.016361 100.00 96.44
10	3	2	1	0.800343	2	0.278937
			3	0.199657	2	1.944312
				BIAS CORR VAR CCEFF EFFICIENCY		0.248722 0.016409 99.70
10	3	1	1	1.000000 BIAS CORR VAR CCEFF EFFICIENCY	3	2.145392 0.151601 99.31
10	2	2	1	0.778496	1	0.226456
			2	0.221504	2	2.844994
				BIAS CORR VAR CCEFF EFFICIENCY EFF(M/N)		0.225838 0.016709 100.00 19.68
10	2	1	1	1.000000 BIAS CORR VAR CCEFF EFFICIENCY	2	2.976070 0.227743 99.78
10	1	1	1	1.000000 BIAS CORR	1	5.141638 0.194491

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF	0.017438	0.460999
				EFFICIENCY	100.00	100.00
				EFF(M/N)	90.48	9.70

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
2	2	2	1	0.811216	1	0.367034
			2	0.188784	2	0.659976
			BIAS CORR	0.709318		
			VAR CCEFF	0.117362		0.169927
			EFFICIENCY	100.00		100.00
		EFF(M/N)	100.00		100.00	
2	2	1	1	1.000000	2	0.846099
			BIAS CORR	0.599341		
			VAR CCEFF	0.124932		0.184074
			EFFICIENCY	93.94		92.31
2	1	1	1	1.000000	1	1.668498
			BIAS CORR	0.599341		
			VAR CCEFF	0.124932		0.347796
			EFFICIENCY	100.00		100.00
			EFF(M/N)	93.94		48.86
3	3	3	1	0.736602	1	0.204649
			2	0.155663	2	0.308005
			3	0.107735	3	0.475650
			BIAS CORR	0.627416		
			VAR CCEFF	0.071162		0.112094
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
3	3	2	1	0.842558	2	0.408580
			3	0.157442	3	0.484601
			BIAS CORR	0.612968		
			VAR CCEFF	0.072797		0.114372
			EFFICIENCY	97.75		98.01
3	3	1	1	1.000000	3	0.741169
			BIAS CORR	0.475391		
			VAR CCEFF	0.078601		0.131286
			EFFICIENCY	90.54		85.38
3	2	2	1	0.756184	1	0.302058
			2	0.243816	2	1.010814
			BIAS CORR	0.566054		
			VAR CCEFF	0.073169		0.169705

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				EFF(M/N)		66.05
3	2	1	1	1.000000	2	1.180299
				BIAS CORR		0.174712
				VAR CCEFF		97.13
				EFFICIENCY		
3	1	1	1	1.000000	1	2.103533
				BIAS CORR		0.347796
				VAR CCEFF		100.00
				EFFICIENCY		32.23
				EFF(M/N)		
4	4	4	1	0.695292	1	0.135713
			2	0.134973	2	0.196996
			3	0.097197	3	0.259499
			4	0.072538	4	0.374676
				BIAS CORR		0.083560
				VAR CCEFF		100.00
				EFFICIENCY		100.00
				EFF(M/N)		
4	4	3	1	0.701924	2	0.267705
			2	0.197316	3	0.261145
			4	0.100760	4	0.377533
				BIAS CORR		0.084225
				VAR CCEFF		99.21
				EFFICIENCY		
4	4	2	1	0.784193	3	0.424197
			3	0.215807	4	0.392290
				BIAS CORR		0.087730
				VAR CCEFF		95.25
				EFFICIENCY		
4	4	1	1	1.000000	4	0.682753
				BIAS CORR		0.105046
				VAR CCEFF		79.55
				EFFICIENCY		
				EFF(M/N)		

TABLE 1  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
4	3	3	1	0.706258	1	0.179933
			2	0.137482	2	0.259318
			3	0.157260	2	0.745923
			BIAS CORR	0.536958		
			VAR CCEFF	0.050716		0.111940
			EFFICIENCY	100.00		100.00
			EFF(M/N)	98.41		74.65
4	3	2	1	0.784193	2	0.353931
			3	0.215807	2	0.753041
			BIAS CORR	0.532719		
			VAR CCEFF	0.051379		0.113110
			EFFICIENCY	98.71		98.97
4	3	1	1	1.000000	2	0.997106
			BIAS CORR	0.403327		
			VAR CCEFF	0.056577		0.119315
			EFFICIENCY	89.64		93.82
4	2	2	1	0.729472	1	0.264576
			2	0.270528	2	1.291661
			BIAS CORR	0.481308		
			VAR CCEFF	0.052466		0.169642
			EFFICIENCY	100.00		100.00
			EFF(M/N)	95.13		49.26
4	2	1	1	1.000000	2	1.445960
			BIAS CORR	0.403327		
			VAR CCEFF	0.056577		0.172184
			EFFICIENCY	92.73		98.52
4	1	1	1	1.000000	1	2.479379
			BIAS CORR	0.403327		
			VAR CCEFF	0.056577		0.347796
			EFFICIENCY	100.00		100.00
			EFF(M/N)	88.21		24.03
5	5	5	1	0.668269	1	0.098814
			2	0.122004	2	0.140709
			3	0.087528	3	0.179656
			4	0.068676	4	0.223552

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			5	0.03523	5	0.310424
			BIAS CORR	0.542719		
			VAR CCEFF	0.037912		0.066583
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
5	5	4	1	0.671795	2	0.194354
			2	0.171174	3	0.180106
			4	0.103349	4	0.224338
			5	0.053683	5	0.311605
			BIAS CORR	0.539199		
VAR CCEFF	0.038125		0.066844			
EFFICIENCY	99.44		99.61			
5	5	3	1	0.735872	2	0.297259
			3	0.191083	4	0.298506
			5	0.073038	5	0.315555
			BIAS CORR	0.534035		
			VAR CCEFF	0.038492		0.067754
EFFICIENCY	98.52		98.27			
5	5	2	1	0.754048	2	0.468784
			3	0.245952	3	0.392344
			BIAS CORR	0.472906		
			VAR CCEFF	0.039463		0.070519
			EFFICIENCY	96.07		94.42
5	5	1	1	1.000000	2	0.644334
			BIAS CORR	0.355042		
			VAR CCEFF	0.043841		0.089213
			EFFICIENCY	86.48		74.63
5	4	4	1	0.675302	1	0.123157
			2	0.123130	2	0.175099
			3	0.088024	3	0.222034
			4	0.113545	4	0.597609
			BIAS CORR	0.513279		
			VAR CCEFF	0.038716		0.083456
			EFFICIENCY	100.00		100.00
EFF(M/N)	98.94		79.78			

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

n	m	L	l	LOCATION	l	SCALE
5	4	2	1	0.678869	2	0.242186
			2	0.172587	2	0.222797
			4	0.148550	4	0.600479
			BIAS CORR	0.509449		
			VAR CORR	0.018932		0.053461
			EFFICIENCY	77.46		77.57
5	4	2	1	0.756768	2	0.370677
			2	0.245957	2	0.649169
			4	0.472906	4	0.085722
			BIAS CORR	0.039861		91.87
			VAR CORR	0.039861		
			EFFICIENCY	91.10		
5	4	1	1	1.000000	4	0.497551
			BIAS CORR	0.156667		
			VAR CORR	0.041001		0.097178
			EFFICIENCY	87.40		90.04
5	3	1	1	0.174011	1	0.143114
			2	0.174968	2	0.229748
			3	0.170791	3	0.466657
			BIAS CORR	0.475801		
			VAR CORR	0.011097		0.111967
			EFFICIENCY	100.00		100.00
			EFFICIENCY	97.97		97.97
5	3	2	1	0.774080	2	0.319211
			2	0.246957	2	0.677444
			4	0.472906	4	0.117650
			BIAS CORR	0.039861		97.17
			VAR CORR	0.039861		
			EFFICIENCY	97.07		
5	3	1	1	1.000000	2	1.140611
			BIAS CORR	0.251082		
			VAR CORR	0.051001		0.111967
			EFFICIENCY	87.18		96.57
5	2	2	1	0.711823	1	0.235709
			2	0.246957	2	1.056139
			4	0.472906	4	0.149616
			BIAS CORR	0.064970		
			VAR CORR	0.064970		
			EFFICIENCY	0.064970		



TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM 1-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				97.49		99.76
5	2	1	1	1.000000	2	1.676943
				0.355047		
				0.063841		0.171191
				97.94		99.10
5	1	1	1	1.000000	1	2.014567
				0.355047		
				0.063841		0.347798
				100.00		100.00
				86.48		14.16
6	6	6	1	0.448031	1	0.074709
			2	0.11317	2	0.107337
			3	0.005897	3	0.134808
			4	0.043447	4	0.147788
			5	0.047706	5	0.148103
			6	0.041037	6	0.144739
				0.812582		
				0.030791		0.066310
				100.00		100.00
				100.00		100.00
6	6	4	1	0.650077	1	0.145738
			2	0.113133	2	0.134739
			3	0.117941	3	0.163799
			4	0.074497	4	0.146403
			6	0.041072	6	0.166317
				0.813784		
				0.030786		0.066310
				97.49		99.76
6	6	6	1	0.601591	1	0.270610
			2	0.148063	2	0.273007
			4	0.134410	4	0.197751
			6	0.066914	6	0.221845
				0.809173		
				0.030771		0.066310
				97.74		99.17

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 1.75

n	m	L	l	LOCATION	l	SCALE
6	6	2	1	0.111800	1	0.331090
			2	0.115208	2	0.268613
			3	0.117617	3	0.271989
			BIAS CORR	0.490819		
			VAR CORR	0.010887		0.097617
			EFFICIENCY	97.75		
6	6	7	1	0.114091	4	0.471491
			2	0.117500	5	0.315658
			3	0.120909		
			BIAS CORR	0.400165		
			VAR CORR	0.011641		0.099770
			EFFICIENCY	93.75		92.35
6	6	8	1	0.110000	6	0.611477
			2	0.113914		
			3	0.117828		
			BIAS CORR	0.155494		0.076661
			VAR CORR	0.011719		12.75
			EFFICIENCY	85.75		
6	6	9	1	0.091768	1	0.091870
			2	0.111719	2	0.176191
			3	0.091719	3	0.161797
			4	0.091719	4	0.197867
			5	0.091719	5	0.501544
BIAS CORR	0.471897					
VAR CORR	0.006879		0.021514			
			EFFICIENCY	100.00		100.00
			EFFICIENCY	99.75		83.11
6	6	4	1	0.158110	2	0.115811
			2	0.116117	3	0.161574
			3	0.116117	4	0.191179
			4	0.116117	5	0.507814
			BIAS CORR	0.491971		
VAR CORR	0.010617		0.066666			
			EFFICIENCY	97.75		97.75
6	6	3	1	0.117100	2	0.264619
			2	0.115208	3	0.268613
			3	0.117617	4	0.500001
			BIAS CORR	0.490819		

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF	0.030842	0.067157
				EFFICIENCY	98.47	99.64
6	5	2	1	0.774693	2	0.394767
			4	0.229407	2	0.504748
				BIAS CORR	0.460109	
				VAR COEFF	0.011641	0.048334
				EFFICIENCY	96.47	97.37
6	5	1	1	1.000000	4	0.031422
				BIAS CORR	0.317914	
				VAR COEFF	0.035545	0.078663
				EFFICIENCY	89.74	87.44
6	4	4	1	0.627574	1	0.113744
			2	0.115404	2	0.145845
			3	0.081674	3	0.148647
			4	0.140447	4	0.186584
				BIAS CORR	0.444109	
				VAR COEFF	0.011946	0.083417
				EFFICIENCY	100.00	100.00
				EFFICIENCY	97.40	66.31
6	4	1	1	0.664774	2	0.273544
			2	0.150134	2	0.145084
			4	0.176870	4	0.183003
				BIAS CORR	0.443004	
				VAR COEFF	0.011060	0.083604
				EFFICIENCY	99.61	94.61
6	4	2	1	0.774693	2	0.379184
			4	0.229407	4	0.071590
				BIAS CORR	0.460109	
				VAR COEFF	0.011641	0.048407
				EFFICIENCY	97.74	98.81
6	4	1	1	1.000000	4	1.003783
				BIAS CORR	0.317914	
				VAR COEFF	0.035545	0.088767
				EFFICIENCY	86.47	94.30

TABLE 1  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	i	LOCATION	i	SCALE	
6	3	3	1	0.777330	1	0.150420	
			2	0.117295	2	0.205478	
			3	0.205414	3	0.154748	
				BIAS CORR	0.420461		
				VAN COEFF	0.011642		0.111923
				EFFICIENCY	100.00		100.00
				EFFIP(%)	95.73		49.46
6	3	2	1	0.734433	2	0.294101	
			2	0.274867	3	1.155188	
			3	0.427889			
				BIAS CORR	0.011878		0.112140
				VAN COEFF	0.011878		99.54
				EFFICIENCY	99.76		
				EFFIP(%)			
6	3	1	1	1.000000	1	1.311566	
			2	0.312914			
			3	0.019595		0.114116	
				BIAS CORR	98.91		91.84
				VAN COEFF			
				EFFICIENCY			
				EFFIP(%)			
6	2	2	1	0.704213	1	0.270491	
			2	0.296787	2	1.791848	
			3	0.382877			
				BIAS CORR	0.012055		0.115602
				VAN COEFF	100.00		100.00
				EFFICIENCY	97.04		97.67
				EFFIP(%)			
6	2	1	1	1.000000	2	1.084368	
			2	0.312914			
			3	0.019595		0.110679	
				BIAS CORR	97.81		99.80
				VAN COEFF			
				EFFICIENCY			
				EFFIP(%)			
6	1	1	1	1.000000	1	3.125438	
			2	0.312914			
			3	0.019595		0.115776	
				BIAS CORR	100.00		100.00
				VAN COEFF	95.10		15.91
				EFFICIENCY			
				EFFIP(%)			
7	7	7	1	0.711168	1	0.261117	
			2	0.106676	2	0.085655	
			3	0.153174	3	0.101111	
			4	0.053781	4	0.176655	

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

n	m	L	i	LOCATION	i	SCALE
5	5	5	5	0.049126	5	0.142526
			6	0.041607	6	0.175287
			7	0.034011	7	0.232759
			BIAS CORR	0.495062		
			VAR CORR	0.025067		0.047327
			EFFICIENCY	100.00		100.00
			EFF (P/N)	100.00		100.00
7	7	6	1	0.615274	2	0.120487
			2	0.106886	3	0.106384
			3	0.075374	4	0.126787
			4	0.088584	5	0.148701
			6	0.059914	6	0.175916
			7	0.034011	7	0.233068
			BIAS CORR	0.493622		
VAR CORR	0.029111		0.047392			
EFFICIENCY	99.00		99.00			
7	7	5	1	0.616947	2	0.173478
			2	0.107014	4	0.177051
			3	0.107884	5	0.148780
			5	0.103147	6	0.178069
			7	0.044984	7	0.233172
			BIAS CORR	0.489864		
			VAR CORR	0.029180		0.047339
EFFICIENCY	99.52		99.52			
7	7	4	1	0.640488	2	0.258614
			2	0.149467	3	0.204809
			4	0.124969	6	0.177093
			6	0.089181	7	0.233902
			BIAS CORR	0.474576		
			VAR CORR	0.029332		0.047898
			EFFICIENCY	98.49		98.49
7	7	3	1	0.694370	4	0.392009
			3	0.196841	6	0.231721
			6	0.108786	7	0.234949
			BIAS CORR	0.470932		
			VAR CORR	0.029574		0.048042
			EFFICIENCY	97.97		96.90

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	J	LOCATION	J	SCALE		
7	7	2	1	0.753796	1	0.480932		
			4	0.246204	7	0.301910		
			BIAS CORR			0.424697		
			VAR COEFF			0.024929		0.091459
			EFFICIENCY			95.20		91.98
7	7	1	1	1.000000	1	0.784759		
			BIAS CORR			0.292940		
			VAR COEFF			0.029846		0.063120
			EFFICIENCY			81.97		72.40
7	6	6	1	0.637640	1	0.071470		
			2	0.107261	2	0.094628		
			3	0.074740	3	0.123642		
			4	0.059534	4	0.147509		
			5	0.049193	5	0.171414		
			6	0.040661	6	0.433690		
			BIAS CORR			0.477614		
			VAR COEFF			0.029706		0.059277
			EFFICIENCY			100.00		100.00
						92.67		89.02
7	6	5	1	0.630706	2	0.140470		
			2	0.107476	3	0.123647		
			3	0.074740	4	0.147709		
			4	0.059534	5	0.171454		
			6	0.049193	6	0.433464		
			BIAS CORR			0.475370		
			VAR COEFF			0.029297		0.059169
			EFFICIENCY			99.00		99.84
			7	6	4	1	0.640688	2
2	0.149967	4				0.202750		
4	0.125569	6				0.172036		
6	0.099181	6				0.433112		
BIAS CORR						0.474576		
VAR COEFF						0.029332		0.059425
EFFICIENCY						99.90		99.48
7	6	3				1	0.648370	2

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE	
			3	0.196843	2	0.237412	
			6	0.108786	6	0.439360	
			BIAS CORR		0.470532		
			VAR COEFF		0.025574		0.096051
			EFFICIENCY		98.56		98.62
7	6	2	1	0.753796	4	0.415595	
			4	0.246704	6	0.514913	
			BIAS CORR		0.424697		
			VAR COEFF		0.026325		0.057130
			EFFICIENCY		95.75		96.42
7	6	1	1	1.000000	6	0.784459	
			BIAS CORR		0.292940		
			VAR COEFF		0.029846		0.069366
			EFFICIENCY		84.46		84.57
			7	9	5	1	0.643915
2	0.108707	2				0.118999	
3	0.076447	3				0.147347	
4	0.059640	4				0.174725	
5	0.111744	5				0.260101	
BIAS CORR		0.454617					
EFFICIENCY		100.00					100.00
7	9	4	1	0.645751	2	0.167850	
			2	0.108911	3	0.148458	
			3	0.104007	4	0.174514	
			5	0.137474	5	0.261259	
			BIAS CORR		0.453711		
			EFFICIENCY		99.79		99.81
			7	9	1	1	0.646430
3	0.164927	4				0.244944	
5	0.138140	5				0.463853	
BIAS CORR		0.453414					
EFFICIENCY		99.18					99.18

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE		
7	5	2	1	0.753796	2	0.360864		
			4	0.246204	5	0.745993		
			BIAS CORR			0.424697		
			VAR COEFF			0.026329		0.067578
			EFFICIENCY			96.70		98.34
7	5	1	1	1.000000	2	0.975826		
			BIAS CORR			0.292940		
			VAR COEFF			0.029946		0.011746
			EFFICIENCY			89.79		92.40
7	4	4	1	0.653701	1	0.106346		
			2	0.109758	2	0.148428		
			3	0.077060	3	0.182008		
			4	0.192481	4	0.440044		
			BIAS CORR			0.426757		
			VAR COEFF			0.025849		0.081397
			EFFICIENCY			100.00		100.00
EFF (M/L)			96.95		96.75			
7	4	3	1	0.655567	2	0.204217		
			2	0.148515	3	0.167222		
			4	0.175938	4	0.442105		
			BIAS CORR			0.435840		
			EFFICIENCY			99.70		99.77
VAR COEFF			0.025926		0.083593			
7	4	2	1	0.753796	2	0.301215		
			4	0.246204	4	1.032351		
			BIAS CORR			0.424697		
			VAR COEFF			0.026329		0.084028
			EFFICIENCY			98.19		99.25
7	4	1	1	1.000000	4	1.207509		
			BIAS CORR			0.292940		
			VAR COEFF			0.029946		0.086514
			EFFICIENCY			86.61		96.49
7	3	3	1	0.669264	1	0.140646		
			2	0.111766	2	0.194071		



TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			3	0.218970	3	1.325130
			BIAS CORR	0.392882		
			VAR COEFF	0.025474		0.111850
			EFFICIENCY	100.00		100.00
			EFF (M/N)	94.66		42.31
7	3	2	1	0.722733	2	0.274686
			3	0.277267	3	1.328772
			BIAS CORR	0.392768		
			VAR COEFF	0.026441		0.112192
			EFFICIENCY	99.37		99.69
7	3	1	1	1.000000	3	1.931431
			BIAS CORR	0.292940		
			VAR COEFF	0.029946		0.113549
			EFFICIENCY	88.70		98.51
7	2	2	1	0.695706	1	0.205916
			2	0.304214	2	1.950507
			BIAS CORR	0.350382		
			VAR COEFF	0.027556		0.109559
			EFFICIENCY	100.00		100.00
			EFF (M/N)	90.94		27.91
7	2	1	1	1.000000	2	2.071717
			BIAS CORR	0.292940		
			VAR COEFF	0.029946		0.110329
			EFFICIENCY	92.33		99.57
7	1	1	1	1.000000	1	3.411672
			BIAS CORR	0.292940		
			VAR COEFF	0.029946		0.107790
			EFFICIENCY	100.00		100.00
			EFF (M/N)	83.97		13.61
6	6	6	1	0.672108	1	0.050753
			2	0.101747	2	0.070379
			3	0.071386	3	0.086880
			4	0.052849	4	0.102489
			5	0.046417	5	0.118494
			6	0.039689	6	0.137229

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM 1-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			7	0.034300	7	0.158416
			8	0.028458	8	0.207355
			BIAS CORR	0.478908		
			VAR COEFF	0.071268		0.041343
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
8	8	7	1	0.622926	2	0.099727
			2	0.101902	3	0.086865
			3	0.071331	4	0.102562
			4	0.091864	5	0.118536
			6	0.099231	6	0.136343
			7	0.034292	7	0.158555
			8	0.028494	8	0.207542
BIAS CORR	0.477783					
VAR COEFF	0.021247		0.041301			
EFFICIENCY	99.87		99.51			
8	8	6	1	0.623961	2	0.141358
			2	0.101914	4	0.144588
			3	0.100761	5	0.110140
			5	0.095983	6	0.130647
			7	0.048899	7	0.158936
			8	0.028482	8	0.207319
			BIAS CORR	0.476340		
VAR COEFF	0.021332		0.041458			
EFFICIENCY	99.70		99.72			
8	8	5	1	0.625540	2	0.210215
			2	0.117021	3	0.126125
			4	0.116818	6	0.132828
			6	0.083195	7	0.154567
			8	0.037417	8	0.208409
			BIAS CORR	0.473605		
			VAR COEFF	0.021391		0.041640
EFFICIENCY	99.42		99.29			
8	8	4	1	0.629851	2	0.211781
			2	0.117892	3	0.250810
			4	0.144150	7	0.211331
			7	0.088105	8	0.210425

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.457384	
				VAR COEFF	0.021539	0.042003
				EFFICIENCY	98.74	98.43
8	8	3	1	0.081457	4	0.377952
			3	0.184813	7	0.258634
			6	0.133730	8	0.215433
				BIAS CORR	0.441517	
				VAR COEFF	0.021774	0.043029
				EFFICIENCY	97.69	96.08
8	8	2	1	0.769430	5	0.517939
			5	0.230570	8	0.306110
				BIAS CORR	0.418760	
				VAR COEFF	0.022447	0.045537
				EFFICIENCY	94.77	90.72
8	8	1	1	1.000000	7	0.749737
				BIAS CORR	0.271419	
				VAR COEFF	0.025621	0.057731
				EFFICIENCY	83.01	71.61
8	7	7	1	0.024975	1	0.057973
			2	0.102200	2	0.080354
			3	0.071690	3	0.099150
			4	0.056089	4	0.116644
			5	0.046620	5	0.132389
			6	0.039648	6	0.153944
			7	0.038783	7	0.182971
				BIAS CORR	0.463799	
				VAR COEFF	0.021767	0.047286
				EFFICIENCY	100.00	100.00
				EFFICIENCY	99.54	87.43
8	7	6	1	0.625800	2	0.113492
			2	0.102394	3	0.099149
			3	0.071635	4	0.116747
			4	0.052167	5	0.135457
			6	0.039775	6	0.154093
			7	0.038767	7	0.183360
				BIAS CORR	0.462645	

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	i	LOCATION	i	SCALE
				VAR COEFF EFFICIENCY		0.021396 99.86 0.047335 99.50
8	7	5	1	0.626933	2	0.167181
			2	0.102367	4	0.165210
			3	0.101164	5	0.135536
			5	0.096247	6	0.154476
			7	0.073388	7	0.384124
				BIAS CORR VAR COEFF EFFICIENCY		0.461212 0.021431 99.70 0.047435 99.64
8	7	4	1	0.624853	3	0.240020
			2	0.137892	5	0.185833
			4	0.144150	6	0.154804
			7	0.088109	7	0.386082
				BIAS CORR VAR COEFF EFFICIENCY		0.457384 0.021534 99.20 0.047673 99.19
8	7	3	1	0.681457	2	0.242059
			3	0.184813	5	0.285934
			6	0.133730	7	0.446716
				BIAS CORR VAR COEFF EFFICIENCY		0.441517 0.021774 98.13 0.048137 98.23
8	7	2	1	0.769430	4	0.432779
			5	0.230570	7	0.507203
				BIAS CORR VAR COEFF EFFICIENCY		0.418360 0.022442 95.21 0.049479 95.57
8	7	1	1	1.000000	7	0.745737
				BIAS CORR VAR COEFF EFFICIENCY		0.271419 0.025621 83.39 0.057731 81.91
8	6	6	1	0.679684	1	0.067547
			2	0.102932	2	0.043577
			3	0.072114	3	0.114958

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			4	0.056965	4	0.136717
			5	0.046547	5	0.154976
			6	0.092158	6	0.574363
				BIAS CORR		0.445005
				VAR CCEFF		0.021529
				EFFICIENCY		100.00
				EFF(M/N)		98.79
8	6	5	1	0.630507	2	0.132676
			2	0.103088	3	0.114971
			3	0.072059	4	0.136860
			4	0.082606	5	0.155129
			6	0.111740	6	0.575034
				BIAS CORR		0.443863
				VAR CCEFF		0.021557
				EFFICIENCY		99.87
8	6	4	1	0.631954	2	0.186734
			2	0.138327	4	0.193124
			4	0.117765	5	0.155220
			6	0.111954	6	0.576452
				BIAS CORR		0.443434
				VAR CCEFF		0.021610
				EFFICIENCY		99.62
8	6	3	1	0.681457	2	0.189603
			3	0.184817	4	0.280975
			6	0.133730	6	0.644981
				BIAS CORR		0.441517
				VAR CCEFF		0.021774
				EFFICIENCY		98.87
8	6	2	1	0.769430	4	0.380722
			5	0.230570	6	0.653704
				BIAS CORR		0.418360
				VAR CCEFF		0.022442
				EFFICIENCY		95.93
8	6	1	1	1.000000	6	0.913736
				BIAS CORR		0.271419
				VAR CCEFF		0.025621

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	84.03	90.35
8	5	5	1	0.636727	1	0.080845
			2	0.103949	2	0.111498
			3	0.072980	3	0.138082
			4	0.056617	4	0.160117
			5	0.129728	5	0.795175
			BIAS CORR	0.422652		
			VAR CCEFF	0.021771		0.066465
			EFFICIENCY	100.00		100.00
			EFF(M/N)	97.69		62.20
8	5	4	1	0.637733	2	0.158230
			2	0.104005	3	0.138731
			3	0.102644	4	0.160318
			5	0.155618	5	0.800261
			BIAS CORR	0.421846		
			VAR CCEFF	0.018000		0.066500
			EFFICIENCY	99.84		99.86
8	5	3	1	0.686134	2	0.226083
			3	0.157519	4	0.228313
			5	0.156347	5	0.802291
			BIAS CORR	0.422231		
			VAR CCEFF	0.021924		0.066756
			EFFICIENCY	99.30		99.56
8	5	2	1	0.769430	3	0.334400
			4	0.230570	5	0.881026
			BIAS CORR	0.418360		
			VAR CCEFF	0.022442		0.067207
			EFFICIENCY	97.01		98.90
8	5	1	1	1.000000	5	1.100455
			BIAS CORR	0.271419		
			VAR CCEFF	0.025621		0.070052
			EFFICIENCY	84.97		94.88
8	4	4	1	0.647146	1	0.100315
			2	0.105618	2	0.139459
			3	0.073561	3	0.169196

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			4	0.173675	4	1.083673
			BIAS CORR	0.396180		
			VAR CCEFF	0.022132		0.083306
			EFFICIENCY	100.00		100.00
			EFF(M/N)	96.10		49.58
8	4	3	1	0.648657	2	0.197635
			2	0.141598	3	0.169309
			4	0.209745	4	1.085485
			BIAS CORR	0.395648		
			VAR CCEFF	0.022187		0.083533
			EFFICIENCY	99.75		99.82
d	4	2	1	0.739616	2	0.280490
			4	0.260384	4	1.171378
			BIAS CORR	0.395377		
			VAR CCEFF	0.022483		0.083824
			EFFICIENCY	98.44		99.48
8	4	1	1	1.000000	4	1.337834
			BIAS CORR	0.271419		
			VAR CCEFF	0.025621		0.085567
			EFFICIENCY	86.38		97.45
8	3	3	1	0.663265	1	0.132777
			2	0.107652	2	0.181888
			3	0.229083	3	1.481296
			BIAS CORR	0.364375		
			VAR CCEFF	0.022691		0.111842
			EFFICIENCY	100.00		100.00
			EFF(M/N)	93.73		36.97
8	3	2	1	0.713495	2	0.259025
			3	0.286505	3	1.484350
			BIAS CORR	0.364495		
			VAR CCEFF	0.022818		0.112099
			EFFICIENCY	99.44		99.77
8	3	1	1	1.000000	3	1.677042
			BIAS CORR	0.271419		
			VAR CCEFF	0.025621		0.113077

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	88.56	98.91
8	2	2	1	0.690237	1	0.194133
			2	0.309763	2	2.135571
				BIAS CORR		0.169590
				VAR CCEFF		100.00
				EFFICIENCY		100.00
				EFF(M/N)	89.97	24.38
8	2	1	1	1.000000	2	2.254356
				BIAS CORR		0.170141
				VAR CCEFF		99.68
				EFFICIENCY		
8	1	1	1	1.000000	1	3.684343
				BIAS CORR		0.347796
				VAR CCEFF		100.00
				EFFICIENCY		100.00
				EFF(M/N)	83.01	11.89
9	9	9	1	0.612345	1	0.042960
			2	0.097856	2	0.055289
			3	0.068223	3	0.072812
			4	0.053196	4	0.085334
			5	0.044142	5	0.097763
			6	0.037846	6	0.110862
			7	0.03062	7	0.125761
			8	0.028992	8	0.144630
			9	0.024336	9	0.187163
				BIAS CORR		0.464651
				VAR CCEFF		0.018405
				EFFICIENCY		100.00
				EFF(M/N)	100.00	100.00
9	9	8	1	0.612914	2	0.084417
			2	0.097919	3	0.072783
			3	0.068360	4	0.085382
			4	0.053032	5	0.097802
			5	0.045707	6	0.110926
			7	0.048782	7	0.125835
			8	0.028924	8	0.144720



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			9	0.024363	5	0.187280
			BIAS CORR	0.463713		
			VAR CCEFF	0.018422		0.036725
			EFFICIENCY	99.91		99.94
9	9	7	1	0.613581	2	0.119109
			2	0.098085	4	0.121707
			3	0.068161	5	0.097686
			4	0.076990	6	0.111153
			6	0.077860	7	0.125941
			8	0.040989	8	0.144887
			9	0.024334	9	0.187499
			BIAS CORR	0.462482		
			VAR CCEFF	0.018443		0.036769
			EFFICIENCY	99.79		99.82
9	9	6	1	0.614653	2	0.119280
			2	0.098085	4	0.174379
			3	0.095518	6	0.155268
			5	0.090892	7	0.125887
			7	0.069081	8	0.145327
			9	0.031771	9	0.187939
			BIAS CORR	0.460070		
			VAR CCEFF	0.018475		0.036859
			EFFICIENCY	99.62		99.57
9	9	5	1	0.616871	3	0.176456
			2	0.131185	5	0.202266
			4	0.134652	7	0.173100
			7	0.085418	8	0.145558
			9	0.031874	9	0.188794
			BIAS CORR	0.458055		
			VAR CCEFF	0.018545		0.037022
			EFFICIENCY	99.25		99.14
9	9	4	1	0.662849	3	0.228755
			3	0.148825	6	0.274561
			5	0.114260	8	0.193579
			8	0.074066	9	0.190540
			BIAS CORR	0.447089		
			VAR CCEFF	0.018662		0.037408

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	98.62	98.62
9	9	3	1	0.670444	4	0.309550
			3	0.200660	7	0.324400
			7	0.128896	9	0.233307
				BIAS CORR		0.429483
				VAR CCEFF		0.018880
				EFFICIENCY	97.48	95.86
9	9	2	1	0.754252	6	0.519540
			5	0.245748	9	0.278115
				BIAS CORR		0.394015
				VAR CCEFF		0.019483
				EFFICIENCY	94.47	90.19
9	9	1	1	1.000000	8	0.721868
				BIAS CORR		0.253752
				VAR CCEFF		0.022395
				EFFICIENCY	82.19	70.59
9	8	8	1	0.614653	1	0.048310
			2	0.098217	2	0.066664
			3	0.068465	3	0.081816
			4	0.053377	4	0.095883
			5	0.044241	5	0.109455
			6	0.038011	6	0.124973
			7	0.032981	7	0.139786
			8	0.050055	8	0.343507
				BIAS CORR		0.451842
				VAR CCEFF		0.018475
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.62	88.84
9	8	7	1	0.615226	2	0.094929
			2	0.098281	3	0.081790
			3	0.068602	4	0.095944
			4	0.053212	5	0.109508
			5	0.065899	6	0.125054
			7	0.048769	7	0.139879
			8	0.050010	8	0.343748
				BIAS CORR		0.450882

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE			
				0.018492		0.041342			
				99.91		99.93			
9	8	6	1	0.615888	2	0.133933			
			2	0.098446	4	0.136848			
			3	0.068401	5	0.109394			
			4	0.077224	6	0.125328			
			6	0.078019	7	0.140017			
			8	0.062021	8	0.344198			
				0.449674					
				0.018512		0.041397			
				99.80		99.80			
			9	8	5	1	0.617091	2	0.134164
2	0.131235	4				0.195824			
4	0.111395	6				0.174781			
6	0.078150	7				0.139994			
8	0.062129	8				0.345215			
	0.449503								
	0.018551					0.041510			
	99.59					99.52			
9	8	4				1	0.662849	2	0.198537
						3	0.148825	5	0.227353
			5	0.114260	7	0.193343			
			8	0.074066	8	0.306506			
				0.447089					
				0.018662		0.041718			
				98.99		99.03			
			9	8	3	1	0.670444	2	0.257491
						3	0.200660	6	0.308386
						7	0.128896	8	0.402068
	0.429483								
	0.018880					0.042196			
	97.85					97.91			
9	8	2				1	0.754252	5	0.444243
						5	0.245748	8	0.457460
							0.394015		
							0.019483		0.043460

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		95.06
9	8	1	1	1.000000	8	0.721868
				BIAS CORR		0.051994
				VAR CCEFF		79.46
				EFFICIENCY		
9	7	7	1	0.618340	1	0.055177
			2	0.098781	2	0.076059
			3	0.068850	3	0.093406
			4	0.053566	4	0.108674
			5	0.044659	5	0.126424
			6	0.037791	6	0.135490
			7	0.078012	7	0.509865
				BIAS CORR		0.047269
				VAR CCEFF		100.00
				EFFICIENCY		77.65
				EFF(M/N)		
9	7	6	1	0.618907	2	0.108352
			2	0.098843	3	0.093386
			3	0.068987	4	0.108754
			4	0.053402	5	0.126497
			5	0.066192	6	0.139595
			7	0.093669	7	0.510268
				BIAS CORR		0.047307
				VAR CCEFF		99.92
				EFFICIENCY		
9	7	5	1	0.619697	2	0.152914
			2	0.098866	4	0.155485
			3	0.096219	5	0.126393
			5	0.091464	6	0.139930
			7	0.093754	7	0.510978
				BIAS CORR		0.047379
				VAR CCEFF		99.77
				EFFICIENCY		
9	7	4	1	0.621947	2	0.153246
			2	0.132224	4	0.223720
			4	0.135554	6	0.197143

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			7	0.110274	7	0.512219
			BIAS CORR	0.432575		
			VAR CCEFF	0.018698		0.047531
			EFFICIENCY	99.40		99.45
9	7	3	1	0.670444	3	0.226488
			3	0.200660	5	0.259129
			7	0.128896	7	0.573380
			BIAS CORR	0.429483		
			VAR CCEFF	0.018880		0.047786
			EFFICIENCY	98.44		98.92
9	7	2	1	0.754252	4	0.390858
			5	0.245748	7	0.634489
			BIAS CORR	0.394015		
			VAR CCEFF	0.019483		0.048609
			EFFICIENCY	95.40		97.24
9	7	1	1	1.000000	7	0.866872
			BIAS CORR	0.253752		
			VAR CCEFF	0.022395		0.053490
			EFFICIENCY	82.99		88.37
9	6	6	1	0.623668	1	0.064244
			2	0.099600	2	0.088604
			3	0.069276	3	0.107867
			4	0.054265	4	0.128780
			5	0.044362	5	0.142565
			6	0.108829	6	0.698476
			BIAS CORR	0.417594		
			VAR CCEFF	0.018747		0.055242
			EFFICIENCY	100.00		100.00
			EFF(M/N)	98.18		66.44
9	6	5	1	0.624272	2	0.126220
			2	0.099731	3	0.107856
			3	0.069183	4	0.128892
			4	0.078122	5	0.142665
			6	0.128693	6	0.699113
			BIAS CORR	0.416924		
			VAR CCEFF	0.018766		0.055294

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		99.91
9	6	4	1	0.675903	2	0.177720
			2	0.132897	4	0.182908
			4	0.112686	5	0.142571
			6	0.128914	6	0.700398
				BIAS CORR		0.055390
				VAR COEFF		99.73
				EFFICIENCY		
9	6	3	1	0.672145	2	0.178170
			3	0.176252	4	0.259976
			6	0.151603	6	0.766491
				BIAS CORR		0.055583
				VAR COEFF		99.37
				EFFICIENCY		
9	6	2	1	0.754252	3	0.340022
			5	0.245748	6	0.832388
				BIAS CORR		0.056166
				VAR COEFF		98.35
				EFFICIENCY		
9	6	1	1	1.000000	6	1.024508
				BIAS CORR		0.059182
				VAR COEFF		93.34
				EFFICIENCY		
9	5	5	1	0.631235	1	0.076874
			2	0.190647	2	0.105360
			3	0.070302	3	0.131133
			4	0.054193	4	0.149012
			5	0.143662	5	0.424801
				BIAS CORR		0.062456
				VAR COEFF		100.00
				EFFICIENCY		95.73
				EFF (M/N)		
9	5	4	1	0.732048	2	0.150340
			2	0.100672	3	0.131145
			3	0.047914	4	0.149168

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			5	0.169361	1	0.925776
			BIAS CORR	0.395579		
			VAR CCEFF	0.019001		0.066530
			EFFICIENCY	99.87		99.89
4	5	3	1	0.678030	2	0.213048
			3	0.151876	4	0.214919
			5	0.170093	5	0.927413
			BIAS CORR	0.396056		
			VAR CCEFF	0.019094		0.066672
			EFFICIENCY	99.38		99.68
4	5	2	1	0.754252	3	0.314275
			5	0.245748	5	1.002625
			BIAS CORR	0.394015		
			VAR CCEFF	0.019483		0.066993
			EFFICIENCY	97.40		99.20
9	5	1	1	1.000000	5	1.212840
			BIAS CORR	0.253752		
			VAR CCEFF	0.022355		0.069006
			EFFICIENCY	84.73		96.30
4	4	4	1	0.642102	1	0.095271
			2	0.102411	2	0.132174
			3	0.070819	3	0.158852
			4	0.184667	4	1.215484
			BIAS CORR	0.370916		
			VAR CCEFF	0.019307		0.083379
			EFFICIENCY	100.00		100.00
			EFF(M/N)	95.33		44.02
4	4	3	1	0.643394	2	0.188038
			2	0.136368	3	0.158943
			4	0.220238	4	1.217071
			BIAS CORR	0.370599		
			VAR CCEFF	0.019348		0.083493
			EFFICIENCY	99.79		99.86
4	4	2	1	0.729111	2	0.264148
			4	0.270889	4	1.299078

TABLE 1  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR VAR CCEFF EFFICIENCY	0.370803 0.019578 98.61	0.083701 99.61
9	4	1	1	1.000000 BIAS CORR VAR CCEFF EFFICIENCY	0.253752 0.022395 86.21	1.458044 0.084954 98.10
9	3	3	1 2 3	0.658628 0.104453 0.236920	1 2 3	0.126190 0.171917 1.626490
				BIAS CORR VAR CCEFF EFFICIENCY EFF(M/N)	0.340904 0.019810 100.00 92.91	0.111836 100.00 32.82
9	3	2	1 3	0.706464 0.293536	2 2	0.246012 1.629097
				BIAS CORR VAR CCEFF EFFICIENCY	0.341154 0.019910 99.50	0.112037 99.82
9	3	1	1	1.000000 BIAS CORR VAR CCEFF EFFICIENCY	0.253752 0.022395 88.46	1.813214 0.112778 99.17
9	2	2	1 2	0.685934 0.314066	1 2	0.184335 2.309442
				BIAS CORR VAR CCEFF EFFICIENCY EFF(M/N)	0.303688 0.020652 100.00 89.12	0.169587 100.00 21.64
9	2	1	1	1.000000 BIAS CORR VAR CCEFF EFFICIENCY	0.253752 0.022395 92.22	2.422767 0.170016 99.75
9	1	1	1	1.000000	1	3.940852



TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.253752	
				VAR CCEFF	0.022395	0.347796
				EFFICIENCY	100.00	100.00
				EFF(M/N)	82.19	10.55
10	10	10	1	0.604115	1	0.037010
			2	0.094699	2	0.050885
			3	0.065654	3	0.062241
			4	0.050979	4	0.072601
			5	0.042242	5	0.082664
			6	0.036213	6	0.092951
			7	0.031775	7	0.104007
			8	0.028168	8	0.116789
			9	0.024985	9	0.133149
			10	0.021170	10	0.170703
				BIAS CORR	0.452421	
				VAR CCEFF	0.016174	0.032997
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	100.00
10	10	9	1	0.604531	2	0.072729
			2	0.094731	3	0.062208
			3	0.065800	4	0.072636
			4	0.050758	5	0.082680
			5	0.062100	6	0.092992
			7	0.047856	7	0.104048
			8	0.027998	8	0.116842
			9	0.025052	9	0.133209
			10	0.021176	10	0.170781
				BIAS CORR	0.451867	
				VAR CCEFF	0.016185	0.033012
				EFFICIENCY	99.93	99.95
10	10	8	1	0.604989	2	0.101932
			2	0.094889	4	0.104271
			3	0.065520	5	0.082500
			4	0.073147	6	0.093207
			6	0.074077	7	0.104064
			8	0.041272	8	0.116947
			9	0.024899	9	0.133308
			10	0.021207	10	0.170918

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.451225	
				VAR CCEFF	0.016198	0.033038
				EFFICIENCY	99.85	99.87
10	10	7	1	0.605672	2	0.101989
			2	0.094796	4	0.147421
			3	0.091241	6	0.131890
			5	0.086757	7	0.103706
			7	0.065233	8	0.117325
			9	0.035126	9	0.133458
			10	0.021176	10	0.171171
				BIAS CORR	0.450316	
				VAR CCEFF	0.016215	0.033088
				EFFICIENCY	99.74	99.72
10	10	6	1	0.606790	2	0.150582
			2	0.125982	3	0.169108
			4	0.106534	7	0.145972
			6	0.074258	8	0.116846
			8	0.058893	9	0.133959
			10	0.027542	10	0.171602
				BIAS CORR	0.448456	
				VAR CCEFF	0.016248	0.033176
				EFFICIENCY	99.54	99.46
10	10	5	1	0.609356	2	0.192262
			2	0.126520	6	0.227464
			4	0.128097	8	0.161242
			7	0.082346	9	0.134197
			9	0.053680	10	0.172592
				BIAS CORR	0.438054	
				VAR CCEFF	0.016317	0.033360
				EFFICIENCY	99.12	98.91
10	10	4	1	0.653074	4	0.255728
			3	0.167008	7	0.257962
			6	0.116336	9	0.178550
			9	0.063582	10	0.174062
				BIAS CORR	0.436468	
				VAR CCEFF	0.016409	0.033688
				EFFICIENCY	98.57	97.95

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
10	10	3	1	0.693032	5	0.329172
			4	0.198152	E	0.301884
			8	0.108816	10	0.213364
			BIAS CORR	0.422862		
			VAR CCEFF	0.016628		0.034509
			EFFICIENCY	97.27		95.62
10	10	2	1	0.742836	7	0.519326
			5	0.257164	10	0.255831
			BIAS CORR	0.372812		
			VAR CCEFF	0.017187		0.036901
			EFFICIENCY	94.10		89.42
10	10	1	1	1.000000	5	0.699109
			BIAS CORR	0.238926		
			VAR CCEFF	0.019854		0.047517
			EFFICIENCY	81.46		69.44
10	9	9	1	0.606020	1	0.041111
			2	0.094992	2	0.056504
			3	0.065856	3	0.065135
			4	0.051122	4	0.080537
			5	0.042363	5	0.091776
			6	0.036256	6	0.102688
			7	0.031925	7	0.116050
			8	0.028062	8	0.128077
			9	0.043404	9	0.311855
			BIAS CORR	0.441366		
			VAR CCEFF	0.016225		0.036677
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.69		89.96
10	9	8	1	0.606437	2	0.080774
			2	0.095023	3	0.069101
			3	0.066002	4	0.080579
			4	0.050900	5	0.091798
			5	0.062245	6	0.102738
			7	0.048025	7	0.116101
			8	0.027892	8	0.128141
			9	0.043475	9	0.312012

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
				0.440805		0.036696
				0.016236		99.95
				99.93		
10	9	7	1	0.606901	2	0.112223
			2	0.095183	4	0.115730
			3	0.065722	5	0.091607
			4	0.073354	6	0.102985
			6	0.074264	7	0.116129
			8	0.041228	8	0.128268
			9	0.043349	9	0.312281
				BIAS CORR		
				0.440147		0.036729
				VAR CCEFF		99.86
				0.016249		
				EFFICIENCY		
				99.85		
10	9	6	1	0.607579	2	0.113305
			2	0.095089	4	0.163670
			3	0.091514	6	0.145962
			5	0.086971	7	0.115752
			7	0.065337	8	0.128706
			9	0.053511	9	0.312742
				BIAS CORR		
				0.439260		0.036790
				VAR CCEFF		99.69
				0.016267		
				EFFICIENCY		
				99.74		
10	9	5	1	0.609356	2	0.167293
			2	0.126520	5	0.187544
			4	0.128097	7	0.162510
			7	0.082346	8	0.128207
			9	0.053680	9	0.312840
				BIAS CORR		
				0.438054		0.036898
				VAR CCEFF		99.40
				0.016317		
				EFFICIENCY		
				99.44		
10	9	4	1	0.653074	2	0.213724
			3	0.167008	6	0.252651
			6	0.116336	8	0.177875
			9	0.063582	9	0.315222
				BIAS CORR		
				0.436468		0.037127
				VAR CCEFF		98.79
				0.016409		
				EFFICIENCY		
				98.88		

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE			
10	9	3	1	0.693032	4	0.284280			
			4	0.198152	7	0.286273			
			8	0.108816	9	0.365663			
			BIAS CORR		0.422862				
			VAR CCEFF		0.016628		0.037523		
			EFFICIENCY		97.57		97.75		
			10	9	2	1	0.742836	6	0.451552
5	0.257164	9				0.418317			
BIAS CORR		0.372812							
VAR CCEFF		0.017187					0.038861		
EFFICIENCY		94.40					94.38		
10	9	1				1	1.000000	9	0.695109
						BIAS CORR		0.238926	
			VAR CCEFF		0.019854		0.047517		
			EFFICIENCY		81.72		77.19		
			10	8	3	1	0.608995	1	0.046217
2	0.095453	2				0.063571			
3	0.066141	2				0.077531			
4	0.051374	4				0.090691			
5	0.042410	5				0.102041			
6	0.036681	6				0.117607			
7	0.031595	7				0.126750			
8	0.067350	8				0.459394			
BIAS CORR		0.427888							
VAR CCEFF		0.016305					0.041298		
EFFICIENCY		100.00					100.00		
EFF(M/N)		99.20		79.50					
10	8	7	1	0.609403	2	0.090860			
			2	0.095524	3	0.077497			
			3	0.066130	4	0.090745			
			4	0.051556	5	0.102072			
			5	0.042139	6	0.117672			
			6	0.054953	7	0.126913			
			8	0.080294	8	0.459653			
			BIAS CORR		0.427103				
			VAR CCEFF		0.016316		0.041322		

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	99.93	99.94
10	8	6	1	0.609868	2	0.127266
			2	0.095643	4	0.130180
			3	0.066007	5	0.101867
			4	0.073631	6	0.117963
			6	0.074520	7	0.126856
			8	0.080331	8	0.460116
			BIAS CORR	0.426694		
			VAR CCEFF	0.016329		0.041363
			EFFICIENCY	99.85		99.84
10	8	5	1	0.610920	2	0.127380
			2	0.126816	4	0.183523
			4	0.107169	6	0.165786
			6	0.074643	7	0.126454
			8	0.080452	8	0.461148
			BIAS CORR	0.426632		
			VAR CCEFF	0.016359		0.041439
			EFFICIENCY	99.67		99.66
10	8	4	1	0.654349	3	0.188145
			3	0.143946	5	0.211134
			5	0.107733	7	0.180074
			8	0.093973	8	0.461929
			BIAS CORR	0.425528		
			VAR CCEFF	0.016441		0.041582
			EFFICIENCY	99.17		99.32
10	8	3	1	0.693032	3	0.240110
			4	0.198152	6	0.283741
			8	0.108816	8	0.517860
			BIAS CORR	0.422862		
			VAR CCEFF	0.016628		0.041854
			EFFICIENCY	98.05		98.67
10	8	2	1	0.742836	5	0.405209
			5	0.257164	8	0.574507
			BIAS CORR	0.372812		
			VAR CCEFF	0.017187		0.042678
			EFFICIENCY	94.87		96.77

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE	
10	8	1	1	1.000000	8	0.829946	
				BIAS CORR	0.238926		
				VAR CCEFF	0.019854		0.047756
				EFFICIENCY	82.12		86.49
10	7	7	1	0.613194	1	0.052798	
			2	0.096065	2	0.072374	
			3	0.066609	3	0.088802	
			4	0.051488	4	0.101908	
			5	0.043139	5	0.120143	
			6	0.036107	6	0.128167	
			7	0.093398	7	0.622439	
				BIAS CORR	0.412228		
				VAR CCEFF	0.016417		0.047259
				EFFICIENCY	100.00		100.07
	EFF(M/N)	98.52		69.82			
10	7	6	1	0.613608	2	0.103557	
			2	0.096096	3	0.088771	
			3	0.066754	4	0.101974	
			4	0.051268	5	0.120189	
			5	0.062939	6	0.128248	
			7	0.109335	7	0.622932	
				BIAS CORR	0.411673		
				VAR CCEFF	0.016429		0.047290
				EFFICIENCY	99.93		99.93
			10	7	5	1	0.614272
2	0.096097	4				0.147168	
3	0.092359	5				0.119976	
5	0.087804	6				0.128594	
7	0.109427	7				0.623453	
	BIAS CORR	0.411377					
	VAR CCEFF	0.016446					0.047344
	EFFICIENCY	99.82		99.82			
10	7	4	1	0.616092	2	0.145462	
			2	0.127860	4	0.210063	
			4	0.129294	6	0.184969	
			7	0.126754	7	0.624291	

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.410070	
				VAR CCEFF	0.016498	0.047449
				EFFICIENCY	99.51	99.60
10	7	3	1	0.661947	3	0.214283
			3	0.191442	5	0.240729
			7	0.146611	7	0.683680
				BIAS CORR	0.408316	
				VAR CCEFF	0.016634	0.047612
				EFFICIENCY	98.70	99.26
10	7	2	1	0.742836	4	0.362762
			5	0.257164	7	0.743868
				BIAS CORR	0.372812	
				VAR CCEFF	0.017187	0.048182
				EFFICIENCY	95.52	98.08
10	7	1	1	1.000000	7	0.967289
				BIAS CORR	0.238926	
				VAR CCEFF	0.019854	0.051469
				EFFICIENCY	82.69	91.82
10	6	6	1	0.618947	1	0.061403
			2	0.096960	2	0.084488
			3	0.066983	3	0.101823
			4	0.052451	4	0.122787
			5	0.042518	5	0.132481
			6	0.122141	6	0.811014
				BIAS CORR	0.394252	
				VAR CCEFF	0.016572	0.055234
				EFFICIENCY	100.00	100.00
				EFF(M/N)	97.59	59.74
10	6	5	1	0.619421	2	0.120767
			2	0.097080	3	0.101796
			3	0.066859	4	0.122882
			4	0.074725	5	0.132544
			6	0.141914	6	0.811609
				BIAS CORR	0.393822	
				VAR CCEFF	0.016586	0.055276
				EFFICIENCY	99.92	99.92



TABLE I

Coefficients for Estimation of  
Location and Scale Parameters of a  
Weibull Population from L-Order Statistics  
(Sample Sizes 2 to 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE			
10	6	4	1	0.620501	2	0.168638			
			2	0.128659	4	0.174736			
			4	0.108699	5	0.132313			
			6	0.142141	6	0.812787			
			BIAS CORR		0.393710				
			VAR CCEFF		0.016616		0.055347		
			EFFICIENCY		99.74		99.80		
10	6	3	1	0.665043	2	0.168873			
			3	0.169755	4	0.244149			
			6	0.165202	6	0.875983			
			BIAS CORR		0.393260				
			VAR CCEFF		0.016711		0.055475		
			EFFICIENCY		99.17		99.57		
			10	6	2	1	0.742836	3	0.518152
5	0.257164	6				0.940061			
BIAS CORR		0.372812							
VAR CCEFF		0.017187					0.055856		
EFFICIENCY		96.42					98.82		
10	6	1				1	1.000000	6	1.124266
						BIAS CORR		0.238926	
			VAR CCEFF		0.019854		0.058073		
			EFFICIENCY		83.47		95.11		
			10	5	5	1	0.626900	1	0.073507
						2	0.098008	2	0.100031
						3	0.068176	3	0.125076
4	0.052134	4				0.139872			
5	0.154782	5				1.040396			
BIAS CORR		0.373600							
VAR CCEFF		0.016787					0.066449		
EFFICIENCY		100.00		100.00					
EFF(M/N)		96.35		49.66					
10	5	4	1	0.627588	2	0.143481			
			2	0.098011	3	0.125064			
			3	0.094256	4	0.140000			
			5	0.180146	5	1.041269			

TABLE 1  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.5

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		0.066509
				EFFICIENCY		99.91
10	5	3	1	0.673711	2	0.202354
			3	0.147412	4	0.203759
			5	0.100878	5	1.042606
				BIAS CORR		
				VAR COEFF		0.066617
				EFFICIENCY		99.75
10	5	2	1	0.742836	3	0.298116
			5	0.257164	5	1.114437
				BIAS CORR		
				VAR COEFF		0.066458
				EFFICIENCY		99.77
10	5	1	1	1.000000	5	1.316585
				BIAS CORR		
				VAR COEFF		0.068362
				EFFICIENCY		97.20
10	4	4	1	0.638099	1	0.90963
			2	0.099856	2	0.126110
			3	0.068613	3	0.190331
			4	0.193477	4	1.338147
				BIAS CORR		
				VAR COEFF		0.083374
				EFFICIENCY		100.00
				EFF (M/N)		39.50
10	4	1	1	0.639238	2	0.179716
			3	0.132768	3	0.150344
			4	0.228494	4	1.339451
				BIAS CORR		
				VAR COEFF		0.083465
				EFFICIENCY		99.89
10	4	2	1	0.720999	2	0.250764
			4	0.279001	4	1.418070
				BIAS CORR		

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				0.017309 98.74		0.083621 99.70
10	4	1	1	1.000000 .238926	4	1.570561
				0.019854 86.08		0.084619 98.53
10	3	3	1	0.654935	1	0.120597
			2	0.101894	2	0.163546
			3	0.243171	3	1.762878
				0.321164		
				0.017546		0.111833
				100.00		100.00
				92.18		29.51
10	3	2	1	0.700929	2	0.234957
			3	0.299071	3	1.765138
				0.321488		
				0.017628		0.111954
				99.53		99.86
10	3	1	1	1.000000	3	1.941790
				0.238926		
				0.019854		0.112574
				88.37		99.34
10	2	2	1	0.682498	1	0.176013
			2	0.317502	2	2.474087
				0.286000		
				0.018302		0.169584
				100.00		100.00
				88.37		19.46
10	2	1	1	1.000000	2	2.582700
				0.238926		
				0.019854		0.169928
				92.18		99.80
10	1	1	1	1.000000	1	4.185403
				0.238926		

GAW/MATH/68-1

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF	0.019854	0.347796
				EFFICIENCY	100.00	100.00
				EFF(M/N)	81.46	9.49

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
2	2	2	1	0.750000	1	0.340784
			2	0.250000	2	0.686374
			BIAS CORR	0.756442		
			VAR CCEFF	0.097320		0.132149
			EFFICIENCY	100.00		100.00
		EFF(M/N)	100.00		100.00	
2	2	1	1	1.000000	2	0.872755
			BIAS CORR	0.626657		
			VAR CCEFF	0.107301		0.142552
			EFFICIENCY	90.70		92.70
2	1	1	1	1.000000	1	1.595769
			BIAS CORR	0.626657		
			VAR CCEFF	0.107301		0.273240
			EFFICIENCY	100.00		100.00
		EFF(M/N)	90.70		48.36	
3	3	3	1	0.656510	1	0.183909
			2	0.191052	2	0.301298
			3	0.152438	3	0.502022
			BIAS CORR	0.696278		
			VAR CCEFF	0.061216		0.086796
			EFFICIENCY	100.00		100.00
		EFF(M/N)	100.00		100.00	
3	3	2	1	0.780059	2	0.397825
			3	0.219941	3	0.510864
			BIAS CORR	0.682933		
			VAR CCEFF	0.063179		0.088469
			EFFICIENCY	96.89		98.11
3	3	1	1	1.000000	3	0.774970
			BIAS CORR	0.511663		
			VAR CCEFF	0.071534		0.101060
			EFFICIENCY	85.58		85.89
3	2	2	1	0.685511	1	0.271246
			2	0.314489	2	1.005333
			BIAS CORR	0.620156		
			VAR CCEFF	0.064081		0.101909

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				EFFICIENCY		65.80
				EFF(M/N)		
3	2	1	1	1.000000	2	1.167345
				BIAS CORR		
				0.511663		
				VAR CCEFF		0.135579
				0.071534		
				EFFICIENCY		97.29
				89.58		
3	1	1	1	1.000000	1	1.954410
				BIAS CORR		
				0.511663		
				VAR CCEFF		0.273240
				0.071534		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		31.77
				85.58		
4	4	4	1	0.605149	1	0.119282
			2	0.160140	2	0.187382
			3	0.127280	3	0.259792
			4	0.107432	4	0.398981
				BIAS CORR		
				0.658958		
				VAR CCEFF		0.064546
				0.044056		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		100.00
				100.00		
4	4	3	1	0.613654	2	0.253426
			2	0.239026	3	0.261295
			4	0.147320	4	0.401849
				BIAS CORR		
				0.647929		
				VAR CCEFF		0.065034
				0.044717		
				EFFICIENCY		99.25
				98.52		
4	4	2	1	0.709804	3	0.422881
			3	0.290196	4	0.416866
				BIAS CORR		
				0.603552		
				VAR CCEFF		0.067647
				0.046081		
				EFFICIENCY		95.42
				95.60		
4	4	1	1	1.000000	4	0.720159
				BIAS CORR		
				0.443113		
				VAR CCEFF		0.080597
				0.053650		
				EFFICIENCY		80.08
				82.12		

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
4	3	3	1	0.621585	1	0.158120
			2	0.163564	2	0.246479
			3	0.214852	3	0.756175
			BIAS CORR	0.606747		
			VAR CCEFF	0.045282		0.086630
			EFFICIENCY	100.00		100.00
			EFF(M/N)	97.29		74.51
4	3	2	1	0.9804	2	0.334798
			3	0.90196	3	0.762315
			BIAS CORR	0.603552		
			VAR CCEFF	0.046081		0.087488
			EFFICIENCY	98.27		99.02
			BIAS CORR	1.000000	3	1.004040
			VAR CCEFF	0.443113		
EFFICIENCY	0.053650		0.092105			
4	3	1	1.000000		94.06	
4	2	2	1	0.654703	1	0.232302
			2	0.345297	2	1.250589
			BIAS CORR	0.537794		
			VAR CCEFF	0.047814		0.131841
			EFFICIENCY	100.00		100.00
			EFF(M/N)	92.14		48.96
			BIAS CORR	1.000000	2	1.394092
VAR CCEFF	0.443113					
EFFICIENCY	0.053650		0.133703			
4	2	1	1.000000		98.61	
4	1	1	1	1.000000	1	2.256758
			BIAS CORR	0.443113		
			VAR CCEFF	0.053650		0.273240
			EFFICIENCY	100.00		100.00
			EFF(M/N)	82.12		23.62
			BIAS CORR	0.571628		
			VAR CCEFF	0.141441		0.085396
EFFICIENCY	0.110663		0.131219			
5	5	5	1	0.571628	1	0.085396
			2	0.141441	2	0.131219
			3	0.110663	3	0.175414
			4	0.094237	4	0.226949

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
			5	0.082031	5	0.332623
			BIAS CORR	0.632615		
			VAR CCEFF	0.034139		0.051353
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
5	5	4	1	0.575891	2	0.180332
			2	0.201391	3	0.175806
			4	0.140746	4	0.227684
			5	0.082473	5	0.333823
			BIAS CORR	0.629265		
			VAR CCEFF	0.034411		0.051544
			EFFICIENCY	99.21		99.63
5	5	3	1	0.646463	2	0.276439
			3	0.242640	4	0.303018
			5	0.110897	5	0.337952
			BIAS CORR	0.624083		
			VAR CCEFF	0.034857		0.052234
			EFFICIENCY	97.94		98.31
5	5	2	1	0.729783	3	0.456122
			4	0.270217	5	0.419465
			BIAS CORR	0.585037		
			VAR CCEFF	0.036231		0.054310
			EFFICIENCY	94.23		94.56
5	5	1	1	1.000000	5	0.684012
			BIAS CORR	0.396333		
			VAR CCEFF	0.042920		0.068308
			EFFICIENCY	79.54		75.18
5	4	4	1	0.582312	1	0.106484
			2	0.143813	2	0.163119
			3	0.112080	3	0.216715
			4	0.161794	4	0.613182
			BIAS CORR	0.593573		
			VAR CCEFF	0.034785		0.064434
			EFFICIENCY	100.00		100.00
			EFF(M/N)	98.14		79.70



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
5	4	3	1	0.586689	2	0.224559
			2	0.204547	3	0.217390
			4	0.208764	4	0.615839
			BIAS CORR	0.589966		
			VAR CCEFF	0.035064		0.064732
			EFFICIENCY	99.21		99.54
5	4	2	1	0.729783	2	0.344425
			4	0.270217	4	0.715218
			BIAS CORR	0.585037		
			VAR CCEFF	0.036231		0.065789
			EFFICIENCY	96.01		97.94
5	4	1	1	1.000000	4	0.913514
			BIAS CORR	0.396333		
			VAR CCEFF	0.042920		0.070950
			EFFICIENCY	81.05		90.82
5	3	3	1	0.601712	1	0.140810
			2	0.147722	2	0.214261
			3	0.250566	3	0.954276
			BIAS CORR	0.544040		
			VAR CCEFF	0.035972		0.086573
			EFFICIENCY	100.00		100.00
			EFF(M/N)	94.91		59.32
5	3	2	1	0.674527	2	0.295914
			3	0.325473	3	0.959402
			BIAS CORR	0.543315		
			VAR CCEFF	0.036416		0.087094
			EFFICIENCY	98.78		99.40
5	3	1	1	1.000000	3	1.179345
			BIAS CORR	0.396333		
			VAR CCEFF	0.042920		0.089504
			EFFICIENCY	83.81		96.73
5	2	2	1	0.636601	1	0.206476
			2	0.363399	2	1.456861
			BIAS CORR	0.481333		
			VAR CCEFF	0.038144		0.131813

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	100.00	100.00
				EFF(M/N)	89.50	38.96
5	2	1	1	1.000000	2	1.586706
				BIAS CORR	0.396333	
				VAR CCEFF	0.042920	0.132936
				EFFICIENCY	88.87	99.15
5	1	1	1	1.000000	1	2.523133
				BIAS CORR	0.396333	
				VAR CCEFF	0.042920	0.273240
				EFFICIENCY	100.00	100.00
				EFF(M/N)	79.54	18.79
6	6	6	1	0.547521	1	0.065040
			2	0.128874	2	0.098558
			3	0.099400	3	0.129280
			4	0.084092	4	0.161704
			5	0.074226	5	0.201330
			6	0.065887	6	0.286084
				BIAS CORR	0.612596	
				VAR CCEFF	0.027722	0.042629
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	100.00
6	6	5	1	0.549991	2	0.136952
			2	0.129311	3	0.129389
			3	0.147022	4	0.161970
			5	0.107607	5	0.201719
			6	0.066068	6	0.286674
				BIAS CORR	0.609620	
				VAR CCEFF	0.027852	0.042719
				EFFICIENCY	99.54	99.79
6	6	4	1	0.553520	2	0.202181
			2	0.179989	4	0.222073
			4	0.179212	5	0.202712
			6	0.087280	6	0.288274
				BIAS CORR	0.604386	
				VAR CCEFF	0.028038	0.042969
				EFFICIENCY	98.87	99.21

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE		
6	6	3	1	0.618560	3	0.318302		
			3	0.217329	5	0.270126		
			5	0.164111	6	0.292212		
			BIAS CORR	0.579467				
			VAR CCEFF	0.028504		0.043591		
			EFFICIENCY	97.26		97.79		
6	6	2	1	0.691782	4	0.472214		
			4	0.308218	6	0.364830		
			BIAS CORR	0.540978				
			VAR CCEFF	0.029641		0.045595		
			EFFICIENCY	93.53		93.50		
6	6	1	1	1.000000	5	0.854376		
			BIAS CORR	0.361801				
			VAR CCEFF	0.035767		0.058439		
			EFFICIENCY	77.51		72.95		
6	5	5	1	0.555103	1	0.077955		
			2	0.130555	2	0.117951		
			3	0.100559	3	0.154329		
			4	0.084784	4	0.192026		
			5	0.128999	5	0.518955		
			BIAS CORR	0.581763				
			VAR CCEFF	0.028109		0.051275		
			EFFICIENCY	100.00		100.00		
			EFF(M/N)	98.62		83.14		
6	5	4	1	0.557614	2	0.164036		
			2	0.131001	3	0.154522		
			3	0.148578	4	0.192420		
			5	0.162807	5	0.520208		
			BIAS CORR	0.578678				
			VAR CCEFF	0.028240		0.051404		
			EFFICIENCY	99.53		99.75		
6	5	3	1	0.618560	2	0.242200		
			3	0.217329	4	0.264479		
			5	0.164111	5	0.523520		
			BIAS CORR	0.579467				

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY	0.028504 98.61	0.051760 99.06
6	5	2	1	0.691782	3	0.381304
			4	0.308218	5	0.609156
				BIAS CORR		
				VAR CCEFF		0.052648
				EFFICIENCY		97.39
6	5	1	1	1.000000	5	0.854376
				BIAS CORR		
				VAR CCEFF		0.058439
				EFFICIENCY		87.74
6	4	4	1	0.567980	1	0.097070
			2	0.133281	2	0.146436
			3	0.102270	3	0.190588
			4	0.196470	4	0.782603
				BIAS CORR		
				VAR CCEFF		0.064392
				EFFICIENCY		100.00
				EFF (M/N)		66.20
6	4	3	1	0.570876	2	0.203940
			2	0.185012	3	0.190937
			4	0.244112	4	0.784870
				BIAS CORR		
				VAR CCEFF		0.064552
				EFFICIENCY		99.69
6	4	2	1	0.691782	2	0.300984
			4	0.308218	4	0.878712
				BIAS CORR		
				VAR CCEFF		0.065137
				EFFICIENCY		98.86
6	4	1	1	1.000000	4	1.060256
				BIAS CORR		
				VAR CCEFF		0.068015
				EFFICIENCY		94.67

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE	
6	3	3	1	0.588812	1	0.128169	
			2	0.137387	2	0.192244	
			3	0.273801	3	1.121585	
				BIAS CORR	0.497301		
				VAR CCEFF	0.029847		0.086547
				EFFICIENCY	100.00		100.00
				EFF(M/N)	92.88		49.26
6	3	2	1	0.653016	2	0.268417	
			3	0.346984	3	1.125611	
				BIAS CORR	0.497444		
				VAR CCEFF	0.030138		0.086896
				EFFICIENCY	99.04		99.60
6	3	1	1	1.000000	3	1.328510	
				BIAS CORR	0.361801		
				VAR CCEFF	0.035767		0.088380
				EFFICIENCY	83.45		97.93
6	2	2	1	0.624679	1	0.187726	
			2	0.375321	2	1.638122	
				BIAS CORR	0.439564		
				VAR CCEFF	0.031730		0.131799
				EFFICIENCY	100.00		100.00
				EFF(M/N)	87.37		32.34
6	2	1	1	1.000000	2	1.157490	
				BIAS CORR	0.361801		
				VAR CCEFF	0.035767		0.132550
				EFFICIENCY	88.71		99.43
6	1	1	1	1.000000	1	2.763953	
				BIAS CORR	0.361801		
				VAR CCEFF	0.035767		0.273240
				EFFICIENCY	100.00		100.00
				EFF(M/N)	77.51		15.60
7	7	7	1	0.529076	1	0.051685	
			2	0.119812	2	0.077568	
			3	0.091284	3	0.100550	
			4	0.076643	4	0.123583	

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
			5	0.067499	2	0.149012
			6	0.060895	6	0.181000
			7	0.054792	7	0.251522
			BIAS CORR	0.576629		
			VAR CCEFF	0.023251		0.036435
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
7	7	6	1	0.530642	2	0.108650
			2	0.120079	3	0.100572
			3	0.131907	4	0.123693
			5	0.101450	5	0.149179
			6	0.060998	6	0.181224
			7	0.054925	7	0.251846
			BIAS CORR	0.595308		
			VAR CCEFF	0.023322		0.036482
			EFFICIENCY	99.70		99.87
7	7	5	1	0.532688	2	0.157118
			2	0.164494	4	0.172674
			4	0.160561	5	0.149531
			6	0.087180	6	0.181728
			7	0.055076	7	0.252598
			BIAS CORR	0.593666		
			VAR CCEFF	0.023417		0.036595
			EFFICIENCY	99.29		99.50
7	7	4	1	0.587001	2	0.243708
			3	0.197409	5	0.205355
			5	0.143317	6	0.182907
			7	0.072273	7	0.254383
			BIAS CORR	0.590923		
			VAR CCEFF	0.023604		0.036862
			EFFICIENCY	98.50		98.84
7	7	3	1	0.596212	4	0.346319
			3	0.242238	6	0.244762
			6	0.161551	7	0.259074
			BIAS CORR	0.564459		
			VAR CCEFF	0.023983		0.037574
			EFFICIENCY	96.95		96.97

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
7	7	2	1	0.706812	5	0.481145
			5	0.293188	7	0.325417
			BIAS CORR	0.535109		
			VAR CCEFF	0.025118		0.035543
			EFFICIENCY	92.57		92.14
7	7	1	1	1.000000	6	0.811968
			BIAS CORR	0.334962		
			VAR CCEFF	0.030657		0.050157
			EFFICIENCY	75.84		72.64
7	6	6	1	0.534784	1	0.060257
			2	0.121060	2	0.090368
			3	0.092177	3	0.116979
			4	0.077259	4	0.143478
			5	0.067870	5	0.172199
			6	0.106810	6	0.451622
			BIAS CORR	0.571349		
			VAR CCEFF	0.023503		0.042572
			EFFICIENCY	100.00		100.00
			EFF(M/N)	98.93		85.58
7	6	5	1	0.536377	2	0.126632
			2	0.121332	3	0.117029
			3	0.133151	4	0.143636
			5	0.102113	5	0.172429
			6	0.107026	6	0.452289
			BIAS CORR	0.569953		
			VAR CCEFF	0.023575		0.042637
EFFICIENCY	99.69		99.85			
7	6	4	1	0.538455	2	0.183121
			2	0.166187	4	0.200729
			4	0.161877	5	0.172919
			6	0.133482	6	0.453820
			BIAS CORR	0.568238		
			VAR CCEFF	0.023671		0.042789
EFFICIENCY	99.29		99.49			
7	6	3	1	0.596212	3	0.284040

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
			3	0.242238	5	0.238045
			6	0.161551	6	0.457433
			BIAS CORR	0.564459		
			VAR CCEFF	0.023983		0.043151
			EFFICIENCY	98.00		98.66
7	6	2	1	0.706812	4	0.403975
			5	0.293168	6	0.535182
			BIAS CORR	0.535109		
			VAR CCEFF	0.025118		0.044117
			EFFICIENCY	93.57		96.50
7	6	1	1	1.000000	6	0.811968
			BIAS CORR	0.334962		
			VAR CCEFF	0.030657		0.050157
			EFFICIENCY	76.66		84.88
7	5	5	1	0.544041	1	0.072174
			2	0.123025	2	0.108039
			3	0.093536	3	0.139559
			4	0.078185	4	0.170387
			5	0.161213	5	0.668275
			BIAS CORR	0.540598		
			VAR CCEFF	0.023913		0.051243
			EFFICIENCY	100.00		100.00
			EFF(M/N)	97.23		71.10
7	5	4	1	0.545671	2	0.151519
			2	0.123304	3	0.139659
			3	0.134983	4	0.170524
			5	0.196041	5	0.669428
			BIAS CORR	0.539124		
			VAR CCEFF	0.023987		0.051336
			EFFICIENCY	99.69		99.82
7	5	3	1	0.601050	2	0.219077
			3	0.201577	4	0.238911
			5	0.197374	5	0.672022
			BIAS CORR	0.540140		
			VAR CCEFF	0.024175		0.051552
			EFFICIENCY	98.92		99.40



TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
7	5	2	1	0.706812	2	0.339574
			5	0.293188	5	0.754306
			BIAS CORR	0.535109		
			VAR CCEFF	0.025118		0.052068
			EFFICIENCY	95.20		98.41
7	5	1	1	1.000000	5	0.982687
			BIAS CORR	0.334962		
			VAR CCEFF	0.030657		0.055343
			EFFICIENCY	78.00		92.59
7	4	4	1	0.558062	1	0.089771
			2	0.125906	2	0.134048
			3	0.095391	3	0.172335
			4	0.220641	4	0.926619
			BIAS CORR	0.504224		
			VAR CCEFF	0.024537		0.064370
			EFFICIENCY	100.00		100.00
EFF(M/N)	94.76		56.60			
7	4	3	1	0.560238	2	0.188208
			2	0.172203	3	0.172530
			4	0.267509	4	0.928539
			BIAS CORR	0.503463		
			VAR CCEFF	0.024638		0.064514
EFFICIENCY	99.59		99.78			
7	4	2	1	0.667978	2	0.271918
			4	0.332022	4	1.016607
			BIAS CORR	0.503914		
			VAR CCEFF	0.025133		0.064845
EFFICIENCY	97.63		99.27			
7	4	1	1	1.000000	4	1.185087
			BIAS CORR	0.334962		
			VAR CCEFF	0.030657		0.066699
			EFFICIENCY	80.04		96.51
7	3	3	1	0.579747	1	0.118419
			2	0.130106	2	0.175927

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
			3	0.290147	3	1.268782
			BIAS CORR	0.460793		
			VAR CCEFF	0.025509		0.086532
			EFFICIENCY	100.00		100.00
			EFF(M/N)	91.15		42.11
7	3	2	1	0.638447	2	0.247532
			3	0.361553	3	1.272038
			BIAS CORR	0.461302		
			VAR CCEFF	0.025718		0.086783
			EFFICIENCY	99.19		99.71
7	3	1	1	1.000000	3	1.461134
			BIAS CORR	0.334962		
			VAR CCEFF	0.030657		0.087789
			EFFICIENCY	83.21		98.57
7	2	2	1	0.616231	1	0.173312
			2	0.383769	2	1.801629
			BIAS CORR	0.407060		
			VAR CCEFF	0.027164		0.131790
			EFFICIENCY	100.00		100.00
			EFF(M/N)	85.50		27.65
7	2	1	1	1.000000	2	1.912665
			BIAS CORR	0.334962		
			VAR CCEFF	0.030657		0.132327
			EFFICIENCY	88.60		99.59
7	1	1	1	1.000000	1	2.985411
			BIAS CORR	0.334962		
			VAR CCEFF	0.030657		0.273240
			EFFICIENCY	100.00		100.00
			EFF(M/N)	75.84		13.33
8	8	8	1	0.514342	1	0.042364
			2	0.112943	2	0.063127
			3	0.085154	3	0.081164
			4	0.070980	4	0.098675
			5	0.062259	5	0.117017
			6	0.056164	6	0.137828

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
			7	0.051424	7	0.164529
			8	0.046734	8	0.224775
			BIAS CORR	0.583455		
			VAR CCEFF	0.019968		0.031810
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
8	8	7	1	0.515358	2	0.088958
			2	0.113140	3	0.081156
			3	0.085258	4	0.098725
			4	0.104925	5	0.117056
			6	0.083041	6	0.137928
			7	0.051473	7	0.164666
			8	0.046805	8	0.224968
			BIAS CORR	0.582252		
			VAR CCEFF	0.020008		0.031837
			EFFICIENCY	99.80		99.91
8	8	6	1	0.516618	2	0.126965
			2	0.113352	4	0.139479
			3	0.121504	5	0.117235
			5	0.128895	6	0.138161
			7	0.072761	7	0.164942
			8	0.046870	8	0.225371
			BIAS CORR	0.580541		
			VAR CCEFF	0.020058		0.031895
			EFFICIENCY	99.55		99.73
8	8	5	1	0.518669	3	0.195697
			2	0.153852	5	0.163914
			4	0.148268	6	0.138541
			6	0.118302	7	0.165614
			8	0.060908	8	0.226315
			BIAS CORR	0.577344		
			VAR CCEFF	0.020141		0.032032
			EFFICIENCY	99.14		99.31
8	8	4	1	0.570284	3	0.197142
			3	0.220545	5	0.247569
			6	0.147732	7	0.219472
			8	0.061439	8	0.228116

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR CCEFF		0.032308
				EFFICIENCY		98.46
8	8	3	1	0.618786	4	0.362879
			4	0.245322	7	0.268638
			7	0.135892	8	0.233330
				BIAS CORR		
				VAR CCEFF		0.033082
				EFFICIENCY		96.15
8	8	2	1	0.681395	5	0.510058
			5	0.318605	8	0.331049
				BIAS CORR		
				VAR CCEFF		0.034974
				EFFICIENCY		90.95
8	8	1	1	1.000000	7	0.779669
				BIAS CORR		
				VAR CCEFF		0.044258
				EFFICIENCY		71.87
8	7	7	1	0.518827	1	0.048396
			2	0.113904	2	0.072073
			3	0.085857	3	0.092628
			4	0.071520	4	0.112443
			5	0.062668	5	0.133128
			6	0.056372	6	0.156136
			7	0.090853	7	0.400843
				BIAS CORR		
				VAR COEFF		0.036391
				EFFICIENCY		100.00
				EFF(M/N)		87.41
8	7	6	1	0.519857	2	0.101594
			2	0.114104	3	0.092631
			3	0.085964	4	0.112513
			4	0.105688	5	0.133234
			6	0.083426	6	0.156279
			7	0.090961	7	0.401230
				BIAS CORR		
						0.560909

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY	0.020183 99.80	0.036427 99.90
8	7	5	1	0.521129	2	0.145011
			2	0.114318	4	0.159070
			3	0.122485	5	0.133427
			5	0.129682	6	0.156572
			7	0.112385	7	0.402030
				BIAS CORR		0.559263
				VAR CCEFF		0.020234
				EFFICIENCY		99.55
8	7	4	1	0.571099	2	0.223510
			3	0.185409	5	0.196748
			5	0.130402	6	0.157207
			7	0.113091	7	0.403931
				BIAS CORR		0.560657
				VAR CCEFF		0.020368
				EFFICIENCY		98.89
8	7	3	1	0.618786	2	0.225401
			4	0.245322	5	0.281912
			7	0.135892	7	0.467219
				BIAS CORR		0.557449
				VAR CCEFF		0.020718
				EFFICIENCY		97.22
8	7	2	1	0.681395	4	0.415333
			5	0.318605	7	0.529833
				BIAS CORR		0.505380
				VAR CCEFF		0.021670
				EFFICIENCY		92.95
8	7	1	1	1.000000	7	0.779669
				BIAS CORR		0.313329
				VAR CCEFF		0.026825
				EFFICIENCY		75.09
8	6	6	1	0.525852	1	0.056394
			2	0.115393	2	0.083954
			3	0.086896	3	0.107637

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
			4	0.072314	4	0.130551
			5	0.063171	5	0.153865
			6	0.136374	6	0.585779
			BIAS CORR	0.536566		
			VAR CCEFF	0.020416		0.042547
			EFFICIENCY	100.00		100.00
			EFF(M/N)	97.80		74.76
8	6	5	1	0.526899	2	0.118374
			2	0.115597	3	0.107657
			3	0.087005	4	0.130653
			4	0.106756	5	0.154013
			6	0.163742	6	0.586430
			BIAS CORR	0.535282		
			VAR CCEFF	0.020458		0.042596
			EFFICIENCY	99.80		99.89
8	6	4	1	0.528530	2	0.168889
			2	0.156661	4	0.184821
			4	0.150625	5	0.154284
			6	0.164184	6	0.587766
			BIAS CORR	0.535089		
			VAR CCEFF	0.020525		0.042698
			EFFICIENCY	99.47		99.65
8	6	3	1	0.581184	2	0.260212
			3	0.224341	5	0.216386
			6	0.194474	6	0.590883
			BIAS CORR	0.533657		
			VAR CCEFF	0.020734		0.042940
			EFFICIENCY	98.47		99.08
8	6	2	1	0.681395	4	0.364954
			5	0.318605	6	0.666127
			BIAS CORR	0.505380		
			VAR CCEFF	0.021670		0.043539
			EFFICIENCY	94.22		97.72
8	6	1	1	1.000000	6	0.927198
			BIAS CORR	0.313329		
			VAR CCEFF	0.026825		0.046987

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				76.11		90.55
				EFFICIENCY		
8	5	5	1	0.536035	1	0.067517
			2	0.117481	2	0.100251
			3	0.088367	3	0.128456
			4	0.073298	4	0.155014
			5	0.184818	5	0.796061
				BIAS CORR		
				0.506823		
				VAR CCEFF		0.051225
				0.020815		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		62.10
				95.93		
8	5	4	1	0.537237	2	0.141490
			2	0.117681	3	0.128507
			3	0.125702	4	0.155169
			5	0.219380	5	0.797092
				BIAS CORR		
				0.506009		
				VAR CCEFF		0.051296
				0.020863		
				EFFICIENCY		99.86
				99.77		
8	5	3	1	0.588790	2	0.201878
			3	0.190509	4	0.219923
			5	0.220701	5	0.799167
				BIAS CORR		
				0.507099		
				VAR CCEFF		0.051441
				0.021005		
				EFFICIENCY		99.58
				99.09		
8	5	2	1	0.681395	3	0.310797
			5	0.318605	5	0.877110
				BIAS CORR		
				0.505380		
				VAR CCEFF		0.051785
				0.021670		
				EFFICIENCY		98.92
				96.05		
8	5	1	1	1.000000	5	1.091562
				BIAS CORR		
				0.313329		
				VAR CCEFF		0.053917
				0.026825		
				EFFICIENCY		95.01
				77.59		
8	4	4	1	0.550772	1	0.083896
			2	0.120451	2	0.124380
			3	0.090293	3	0.158582

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
			4	0.238484	4	1.053724
			BIAS CORR	0.472232		0.064358
			VAR CCEFF	0.021394		100.00
			EFFICIENCY	100.00		49.43
			EFF(M/N)	93.33		
8	4	3	1	0.552533	2	0.175678
			2	0.163085	3	0.158694
			4	0.284383	4	1.055364
			BIAS CORR	0.471856		0.064466
			VAR CCEFF	0.021466		99.83
			EFFICIENCY	99.66		
8	4	2	1	0.651527	2	0.250407
			4	0.348473	4	1.138274
			BIAS CORR	0.472996		0.064689
			VAR CCEFF	0.021835		99.49
			EFFICIENCY	97.98		
8	4	1	1	1.000000	4	1.296140
			BIAS CORR	0.313329		0.065987
			VAR CCEFF	0.026825		97.53
			EFFICIENCY	79.75		
8	3	3	1	0.573024	1	0.110602
			2	0.124595	2	0.163192
			3	0.302280	3	1.401569
			BIAS CORR	0.431275		0.086523
			VAR CCEFF	0.022273		100.00
			EFFICIENCY	100.00		35.76
			EFF(M/N)	89.65		
8	3	2	1	0.627899	2	0.250932
			3	0.372102	3	1.404267
			BIAS CORR	0.431954		0.086712
			VAR CCEFF	0.022433		99.78
			EFFICIENCY	99.29		
8	3	1	1	1.000000	3	1.581961
			BIAS CORR	0.313329		0.087440
			VAR CCEFF	0.026825		



TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	83.03	98.95
8	2	2	1	0.609930	1	0.161782
			2	0.390070	2	1.951710
				BIAS CORR	0.380838	
				VAR CCEFF	0.023747	0.131785
				EFFICIENCY	100.00	100.00
				EFF(M/N)	84.09	24.14
8	2	1	1	1.000000	2	2.055927
				BIAS CORR	0.313329	
				VAR CCEFF	0.026825	0.132188
				EFFICIENCY	88.52	99.69
8	1	1	1	1.000000	1	3.191538
				BIAS CORR	0.313329	
				VAR CCEFF	0.026825	0.273240
				EFFICIENCY	100.00	100.00
				EFF(M/N)	74.44	11.64
9	9	9	1	0.502196	1	0.035553
			2	0.107539	2	0.052686
			3	0.080353	3	0.067335
			4	0.066536	4	0.081248
			5	0.058115	5	0.095361
			6	0.052296	6	0.110540
			7	0.047958	7	0.128087
			8	0.044370	8	0.150928
			9	0.040636	9	0.203423
				BIAS CORR	0.572310	
				VAR CCEFF	0.017460	0.028225
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	100.00
9	9	8	1	0.502918	2	0.074596
			2	0.107664	3	0.067318
			3	0.080470	4	0.081272
			4	0.066569	5	0.095359
			5	0.087173	6	0.110601
			7	0.070134	7	0.128158
			8	0.044393	8	0.151017

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE			
9	9	7	1	0.503776	2	0.105502			
			2	0.107869	4	0.115808			
			3	0.080510	5	0.095447			
			4	0.097130	6	0.110731			
			6	0.107721	7	0.128274			
			8	0.062284	8	0.151192			
			9	0.040709	9	0.203779			
			BIAS CORR		0.569793				
			VAR COEFF		0.017516	0.028276			
			EFFICIENCY		99.68	99.87			
9	9	6	1	0.505069	2	0.105679			
			2	0.145120	4	0.165966			
			4	0.138607	6	0.154602			
			6	0.107955	8	0.128511			
			8	0.052435	9	0.151542			
			9	0.040814					
			BIAS CORR		0.569936	0.028345			
			VAR COEFF		0.017564	99.58			
			EFFICIENCY		99.41				
			9	9	5	1	0.507785	3	0.162637
2	0.145809	5				0.197149			
4	0.109887	7				0.176169			
7	0.123701	8				0.152091			
9	0.052920	9				0.209123			
BIAS CORR		0.564791				0.028468			
VAR COEFF		0.017654				99.15			
EFFICIENCY		98.88							
9	9	4				1	0.556714	4	0.227467
						3	0.175589	6	0.234440
			5	0.152728	8	0.201946			
			8	0.114970	9	0.207115			
			BIAS CORR		0.549114	0.028751			
			VAR COEFF		0.017837				
			EFFICIENCY						

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				97.89		98.14
			EFFICIENCY			
9	9	3	1	0.602244	4	0.293881
			4	0.263462	7	0.330297
			8	0.134294	9	0.253267
			BIAS CORR	0.544544		
			VAR CCEFF	0.018172		0.029423
			EFFICIENCY	96.08		95.93
9	9	2	1	0.663545	6	0.516525
			5	0.336455	9	0.301562
			BIAS CORR	0.479123		
			VAR CCEFF	0.019079		0.031237
			EFFICIENCY	91.52		90.36
9	9	1	1	1.000000	8	0.754012
			BIAS CORR	0.295409		
			VAR CCEFF	0.023845		0.039832
			EFFICIENCY	73.23		70.86
9	8	8	1	0.505834	1	0.039982
			2	0.108307	2	0.059246
			3	0.080908	3	0.075644
			4	0.066990	4	0.091304
			5	0.058464	5	0.106946
			6	0.052568	6	0.123841
			7	0.048077	7	0.142914
			8	0.070853	8	0.361040
			BIAS CORR	0.953486		
			VAR CCEFF	0.017587		0.031776
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.28		88.83
9	8	7	1	0.506364	2	0.083891
			2	0.108434	3	0.075631
			3	0.081026	4	0.091337
			4	0.067023	5	0.106996
			5	0.081673	6	0.123919
			7	0.070368	7	0.143004
			8	0.070912	8	0.361282
			BIAS CORR	0.952895		

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY		0.031797 99.93
				0.017613 99.85		
9	8	6	1	0.507427	2	0.118631
			2	0.108640	4	0.130156
			3	0.081066	5	0.107065
			4	0.097768	6	0.124082
			6	0.108225	7	0.143154
			8	0.096873	8	0.361750
				BIAS CORR		
				0.551425		
				VAR CCEFF		0.031839
				0.017644		99.80
				EFFICIENCY		
				99.68		
9	8	5	1	0.508739	2	0.118864
			2	0.146151	4	0.186475
			4	0.139533	6	0.173343
			6	0.108461	7	0.143459
			8	0.097115	8	0.362704
				BIAS CORR		
				0.551520		
				VAR CCEFF		0.031427
				0.017692		99.53
				EFFICIENCY		
				99.41		
9	8	4	1	0.556714	2	0.107769
			3	0.175589	5	0.221340
			5	0.152728	7	0.196979
			8	0.114970	8	0.364321
				BIAS CORR		
				0.549114		
				VAR CCEFF		0.032082
				0.017837		99.05
				EFFICIENCY		
				98.60		
9	8	3	1	0.502244	3	0.237594
			4	0.263467	6	0.307033
			8	0.134794	8	0.422325
				BIAS CORR		
				0.544944		
				VAR CCEFF		0.037444
				0.018172		97.92
				EFFICIENCY		
				96.78		
9	8	2	1	0.663545	5	0.432005
			5	0.336455	8	0.474925
				BIAS CORR		
				0.479123		
				VAR CCEFF		0.033396
				0.019079		

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	92.18	95.15
9	8	1	1	1.000000	8	0.754012
				BIAS CORR	0.295409	
				VAR CCEFF	0.023845	0.039832
				EFFICIENCY	73.76	79.78
9	7	7	1	0.511387	1	0.045677
			2	0.109453	2	0.067571
			3	0.081769	3	0.086430
			4	0.067593	4	0.103815
			5	0.058987	5	0.121790
			6	0.052865	6	0.140295
			7	0.117946	7	0.523031
				BIAS CORR	0.532182	
				VAR CCEFF	0.017781	0.036372
				EFFICIENCY	100.00	100.00
				EFF(M/N)	98.20	77.60
9	7	6	1	0.512125	2	0.095736
			2	0.109581	3	0.086422
			3	0.081888	4	0.103862
			4	0.067627	5	0.121859
			5	0.088363	6	0.140197
			7	0.140416	7	0.523423
				BIAS CORR	0.531070	
				VAR CCEFF	0.017807	0.036400
				EFFICIENCY	99.85	99.92
9	7	5	1	0.513027	2	0.135457
			2	0.109723	4	0.148247
			3	0.115425	5	0.121960
			5	0.121205	6	0.140608
			7	0.140620	7	0.524159
				BIAS CORR	0.530674	
				VAR CCEFF	0.017839	0.036454
				EFFICIENCY	99.67	99.77
9	7	4	1	0.515723	2	0.135774
			2	0.148027	4	0.212479
			4	0.172178	6	0.190792

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
			7	0.164071	7	0.525651
			BIAS CORR	0.528534		
			VAR CCEFF	0.017936		0.036568
			EFFICIENCY	99.14		99.46
9	7	3	1	0.567060	3	0.208973
			3	0.242403	5	0.251886
			7	0.130537	7	0.588290
			BIAS CORR	0.525706		
			VAR CCEFF	0.018175		0.036767
			EFFICIENCY	97.83		98.92
9	7	2	1	0.663545	4	0.370899
			5	0.336455	7	0.650167
			BIAS CORR	0.479123		
			VAR CCEFF	0.019079		0.037383
			EFFICIENCY	93.20		97.29
9	7	1	1	1.000000	7	0.885076
			BIAS CORR	0.295409		
			VAR CCEFF	0.023845		0.041061
			EFFICIENCY	74.57		88.58
9	6	6	1	0.519164	1	0.053175
			2	0.111083	2	0.078794
			3	0.082838	3	0.100144
			4	0.068508	4	0.120793
			5	0.059544	5	0.140654
			6	0.158863	6	0.701322
			BIAS CORR	0.507157		
			VAR CCEFF	0.018053		0.042533
			EFFICIENCY	100.00		100.00
			EFF(M/N)	96.72		66.36
9	6	5	1	0.519422	2	0.111596
			2	0.111237	3	0.100147
			3	0.082903	4	0.120864
			4	0.099725	5	0.140751
			6	0.186213	6	0.701921
			BIAS CORR	0.506416		
			VAR CCEFF	0.018080		0.042571

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE			
				EFFICIENCY		99.91			
				99.85					
9	6	4	1	0.521295	2	0.157662			
			2	0.149607	4	0.172336			
			4	0.142444	5	0.140898			
			6	0.186654	6	0.703090			
			BIAS CORR	0.506398					
			VAR CCEFF	0.018130		0.042645			
			EFFICIENCY	99.57		99.74			
9	6	3	1	0.570536	2	0.158101			
			3	0.211845	4	0.246654			
			6	0.217619	6	0.769878			
			BIAS CORR	0.505980					
			VAR CCEFF	0.018284		0.042796			
			EFFICIENCY	98.74		99.39			
			9	6	2	1	0.663545	3	0.313362
2	0.336455	6				0.835151			
BIAS CORR	0.479123								
VAR CCEFF	0.019079					0.043231			
EFFICIENCY	94.62					98.39			
9	6	1				1	1.000000	6	1.024735
						BIAS CORR	0.295409		
			VAR CCEFF	0.023845		0.045498			
			EFFICIENCY	75.71		93.48			
9	5	5	1	0.529956	1	0.063669			
			2	0.113219	2	0.093897			
			3	0.084409	3	0.115737			
			4	0.069522	4	0.143262			
			5	0.202894	5	0.909278			
			BIAS CORR	0.478566					
			VAR CCEFF	0.018431		0.051215			
			EFFICIENCY	100.00		100.00			
			EFF(M/N)	94.74		55.11			
9	5	4	1	0.530910	2	0.133195			
			2	0.113371	3	0.119761			
			3	0.118891	4	0.143370			

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
			5	0.236828	5	0.910193
			BIAS CORR	0.478079		
			VAR CCEFF	0.018465		0.051270
			EFFICIENCY	99.82		99.89
9	5	3	1	0.579664	2	0.188344
			3	0.182209	4	0.204988
			5	0.238126	5	0.911389
			BIAS CORR	0.479182		
			VAR CCEFF	0.018578		0.051375
			EFFICIENCY	99.21		99.69
9	5	2	1	0.663545	3	0.288983
			5	0.336455	5	0.985676
			BIAS CORR	0.479123		
			VAR CCEFF	0.019079		0.051622
			EFFICIENCY	96.60		99.21
9	5	1	1	1.000000	5	1.188441
			BIAS CORR	0.295409		
			VAR CCEFF	0.023845		0.053129
			EFFICIENCY	77.29		96.40
9	4	4	1	0.545181	1	0.079033
			2	0.116752	2	0.116566
			3	0.086361	3	0.147705
			4	0.252206	4	1.168570
			BIAS CORR	0.445605		
			VAR CCEFF	0.018966		0.064350
			EFFICIENCY	100.00		100.00
			EFF(M/N)	92.06		43.86
9	4	3	1	0.546675	2	0.165388
			2	0.156238	3	0.147770
			4	0.297087	4	1.169985
			BIAS CORR	0.445436		
			VAR CCEFF	0.019021		0.064434
			EFFICIENCY	99.71		99.87
9	4	2	1	0.639426	2	0.233538
			4	0.360574	4	1.248409



TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.446915	
				VAR CCEFF	0.019311	0.064594
				EFFICIENCY	98.22	99.62
9	4	1	1	1.000000	4	1.397453
				BIAS CORR	0.295409	
				VAR CCEFF	0.023845	0.065556
				EFFICIENCY	79.54	98.16
9	3	3	1	0.567838	1	0.104156
			2	0.120516	2	0.152887
			3	0.311646	3	1.523401
				BIAS CORR	0.406777	
				VAR CCEFF	0.019767	0.086518
				EFFICIENCY	100.00	100.00
				EFF(M/N)	88.33	32.62
9	3	2	1	0.619897	2	0.217311
			3	0.380103	2	1.525683
				BIAS CORR	0.407534	
				VAR CCEFF	0.019895	0.086664
				EFFICIENCY	99.36	99.83
9	3	1	1	1.000000	3	1.693778
				BIAS CORR	0.295409	
				VAR CCEFF	0.023845	0.087216
				EFFICIENCY	82.90	99.20
9	2	2	1	0.605051	1	0.152286
			2	0.394949	2	2.091186
				BIAS CORR	0.359105	
				VAR CCEFF	0.021094	0.131781
				EFFICIENCY	100.00	100.00
				EFF(M/N)	82.78	21.42
9	2	1	1	1.000000	2	2.185693
				BIAS CORR	0.295409	
				VAR CCEFF	0.023845	0.132095
				EFFICIENCY	88.46	99.76
9	1	1	1	1.000000	1	3.385138

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.295409	
				VAR CCEFF	0.023845	0.273240
				EFFICIENCY	100.00	100.00
				EFF(M/N)	73.23	10.33
10	10	10	1	0.491941	1	0.030395
			2	0.103163	2	0.044847
			3	0.076487	3	0.057051
			4	0.062952	4	0.068464
			5	0.054773	5	0.079780
			6	0.049119	6	0.091570
			7	0.045026	7	0.104475
			8	0.041735	8	0.119600
			9	0.038932	9	0.135507
			10	0.035872	10	0.185958
				BIAS CORR	0.562699	
				VAR CCEFF	0.015487	0.025366
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	100.00
10	10	9	1	0.492458	2	0.063737
			2	0.103228	3	0.057031
			3	0.076610	4	0.068476
			4	0.062933	5	0.079794
			5	0.081031	6	0.091612
			7	0.067139	7	0.104510
			8	0.041731	8	0.119653
			9	0.038970	9	0.135566
			10	0.035901	10	0.186039
				BIAS CORR	0.562096	
				VAR CCEFF	0.015503	0.025377
				EFFICIENCY	99.90	99.96
10	10	8	1	0.493022	2	0.089542
			2	0.103423	4	0.098201
			3	0.076517	5	0.079788
			4	0.091046	6	0.091731
			6	0.100447	7	0.104520
			8	0.060646	8	0.119776
			9	0.038959	9	0.139663
			10	0.035939	10	0.186186

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.561380	
				VAR CCEFF	0.015522	0.025358
				EFFICIENCY	99.77	99.88
10	10	7	1	0.493845	2	0.089625
			2	0.103447	4	0.138959
			3	0.107373	6	0.129654
			5	0.112406	7	0.104566
			7	0.092572	8	0.115996
			9	0.054395	9	0.139834
			10	0.035961	10	0.186463
				BIAS CORR	0.560318	
				VAR CCEFF	0.015548	0.025436
				EFFICIENCY	99.61	99.73
10	10	6	1	0.495225	3	0.137586
			2	0.138606	5	0.163057
			4	0.131349	7	0.146349
			6	0.100786	8	0.120051
			8	0.087738	9	0.140262
			10	0.046296	10	0.186930
				BIAS CORR	0.557986	
				VAR CCEFF	0.015593	0.025503
				EFFICIENCY	99.32	99.47
10	10	5	1	0.539757	3	0.175820
			3	0.166312	6	0.224026
			5	0.140367	8	0.164825
			8	0.106996	9	0.140900
			10	0.046568	10	0.187938
				BIAS CORR	0.557332	
				VAR CCEFF	0.015695	0.025643
				EFFICIENCY	98.67	98.92
10	10	4	1	0.544266	4	0.240575
			3	0.196411	7	0.258953
			6	0.158786	9	0.186935
			9	0.100537	10	0.189652
				BIAS CORR	0.541767	
				VAR CCEFF	0.015828	0.025891
				EFFICIENCY	97.84	97.97

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
10	10	3	1	0.588213	5	0.311870
			4	0.247253	8	0.309017
			8	0.164534	10	0.232151
			BIAS CORR	0.523815		
			VAR CCEFF	0.016147		0.026511
			EFFICIENCY	95.91		95.68
10	10	2	1	0.674540	7	0.520252
			6	0.325460	10	0.278026
			BIAS CORR	0.481860		
			VAR CCEFF	0.017002		0.028315
			EFFICIENCY	91.09		89.59
10	10	1	1	1.000000	5	0.732989
			BIAS CORR	0.280250		
			VAR CCEFF	0.021460		0.036382
			EFFICIENCY	72.17		69.72
10	9	9	1	0.494967	1	0.033760
			2	0.103788	2	0.049792
			3	0.076954	3	0.063354
			4	0.063302	4	0.075442
			5	0.055098	5	0.084618
			6	0.049350	6	0.101382
			7	0.045218	7	0.115649
			8	0.041801	8	0.131857
			9	0.069524	9	0.328921
			BIAS CORR	0.546673		
			VAR CCEFF	0.015582		0.028198
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.39		89.96
10	9	8	1	0.495488	2	0.070780
			2	0.103853	3	0.063375
			3	0.077077	4	0.075909
			4	0.063283	5	0.088639
			5	0.081480	6	0.101434
			7	0.067435	7	0.115694
			8	0.041797	8	0.131921
			9	0.069587	9	0.329078

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.546053	
				VAR CCEFF	0.015599	0.028212
				EFFICIENCY	99.90	99.95
10	9	7	1	0.496059	2	0.099464
			2	0.104050	4	0.108949
			3	0.076985	5	0.088640
			4	0.091564	6	0.101574
			6	0.100941	7	0.115715
			8	0.060792	8	0.132069
			9	0.069609	9	0.329354
				BIAS CORR	0.545317	
				VAR CCEFF	0.015618	0.028237
				EFFICIENCY	99.77	99.86
10	9	6	1	0.496886	2	0.099572
			2	0.104075	4	0.154254
			3	0.108012	6	0.143728
			5	0.113030	7	0.115785
			7	0.042908	8	0.132333
			9	0.065088	9	0.329856
				BIAS CORR	0.544743	
				VAR CCEFF	0.015643	0.028284
				EFFICIENCY	99.61	99.70
10	9	5	1	0.498944	3	0.152946
			2	0.134582	5	0.180969
			4	0.159672	7	0.162103
			7	0.116396	8	0.132428
			9	0.089401	9	0.330857
				BIAS CORR	0.543180	
				VAR CCEFF	0.015711	0.028366
				EFFICIENCY	99.18	99.41
10	9	4	1	0.544266	3	0.195430
			3	0.196411	6	0.248522
			6	0.158780	8	0.182124
			9	0.100537	9	0.332707
				BIAS CORR	0.541767	
				VAR CCEFF	0.015828	0.028539
				EFFICIENCY	98.45	98.61

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM 1-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	k	LOCATION	k	SCALE	
10	4	3	1	0.588213	6	0.267522	
			2	0.767363	7	0.287031	
			3	0.768536	8	0.285510	
			BIAS CORR		0.523015		
			VAR CORR		0.17157		0.070843
			EFFICIENCY		96.50		97.76
10	4	2	1	0.614540	6	0.281545	
			2	0.725885	7	0.281647	
			BIAS CORR		0.601840		
			VAR CORR		0.101707		0.074881
			EFFICIENCY		91.45		95.58
10	4	1	1	1.010011	6	0.137787	
			BIAS CORR		0.720076		
			VAR CORR		0.071469		0.011377
			EFFICIENCY		77.61		77.51
10	4	0	1	0.515601	1	0.031758	
			2	0.718711	2	0.046777	
			3	0.707577	3	0.041549	
			4	0.701777	4	0.036451	
			5	0.695677	5	0.030896	
			6	0.689181	6	0.025471	
			7	0.682471	7	0.020354	
			8	0.675477	8	0.015479	
			BIAS CORR		0.571187		
			VAR CORR		0.15175		0.011749
			EFFICIENCY		100.00		100.00
					78.54		78.07
10	0	1	1	0.510011	1	0.019227	
			2	0.718553	2	0.016777	
			3	0.677797	3	0.015114	
			4	0.661503	4	0.014074	
			5	0.647071	5	0.013174	
			6	0.634177	6	0.012505	
			7	0.622177	7	0.011915	
			8	0.610777	8	0.011375	
			BIAS CORR		0.571112		
			VAR CORR		0.015767		0.011710

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

n	m	L	i	LOCATION	i	SCALE
				EFFICIENCY	99.89	99.89
10	B	6	1	0.900986	7	0.111789
			2	0.109000	8	0.127709
			3	0.077604	9	0.098739
			4	0.077384	10	0.114109
			5	0.101589		0.129000
			6	0.127468		0.142277
			BIAS CORR	0.574367		
			VAR CORR	0.015761		0.01009
			EFFICIENCY	99.77		99.89
10	C	5	1	0.901719	7	0.111728
			2	0.100280	8	0.122309
			3	0.112707	9	0.101184
			4	0.101797	10	0.129191
			5	0.123117		0.145988
			BIAS CORR	0.570587		
			VAR CORR	0.018798		0.01067
			EFFICIENCY	99.84		99.86
10	D	4	1	0.902987	7	0.111887
			2	0.107011	8	0.120793
			3	0.101900	9	0.101101
			4	0.102790	10	0.128108
			BIAS CORR	0.575706		
			VAR CORR	0.019907		0.01177
			EFFICIENCY	98.88		99.84
10	E	3	1	0.902713	7	0.111789
			2	0.107283	8	0.121786
			3	0.106916	9	0.102604
			BIAS CORR	0.573815		
			VAR CORR	0.016187		0.01108
			EFFICIENCY	97.87		99.87
10	F	2	1	0.678570	7	0.109083
			2	0.120880	8	0.101481
			BIAS CORR	0.681860		
			VAR CORR	0.017003		0.01200
			EFFICIENCY	97.89		98.87

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM 1-ORDER STATISTICS  
 (SAMPLE SIZES 7 TO 10)  
 SCALE PARAMETER = 2.00

n	M	L	k	LOCATION	k	SCALE
10	8	1	1	1.000000	1	0.091729
			BIAS CORR	0.290790		
			VAN CLEFT	0.021460		0.036634
			EFFICIENCY	79.78		86.47
10	7	7	1	0.908677	1	0.043349
			2	0.115919	2	0.061697
			3	0.078617	3	0.001673
			4	0.028817	4	0.048573
			5	0.006130	5	0.113326
			6	0.000000	6	0.178710
			7	0.138180	7	0.070471
			BIAS CORR	0.517281		
			VAN CLEFT	0.015470		0.036360
			EFFICIENCY	100.00		100.00
10	7	6	1	0.808700	1	0.070001
			2	0.108000	2	0.001610
			3	0.070100	3	0.047610
			4	0.028600	4	0.113317
			5	0.007800	5	0.150000
			6	0.101700	6	0.029700
			BIAS CORR	0.500000		
			VAN CLEFT	0.015400		0.036300
			EFFICIENCY	99.00		99.00
			10	7	5	1
2	0.108000	2				0.139190
3	0.100000	3				0.113300
4	0.115000	4				0.129000
5	0.101900	5				0.147000
BIAS CORR	0.500000					
VAN CLEFT	0.015400		0.036300			
EFFICIENCY	99.00		99.00			
10	7	4	1	0.808700	1	0.171680
			2	0.108000	2	0.147200
			3	0.102000	3	0.100000
			4	0.106000	4	0.081000



TABLE 1  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.904136	
				VAN COEFF	0.014031	0.036901
				EFFICIENCY	99.91	99.61
10	7	3	1	0.997207	2	0.196200
			3	0.774092	5	0.731093
			7	0.713737	7	0.641919
				BIAS CORR	0.902799	
				VAN COEFF	0.014209	0.036633
				EFFICIENCY	98.77	99.26
10	7	2	1	0.674540	4	0.340810
			4	0.379620	7	0.791679
				BIAS CORR	0.481860	
				VAN COEFF	0.017067	0.037090
				EFFICIENCY	93.24	98.17
10	7	1	1	1.000000	7	0.974067
				BIAS CORR	0.780790	
				VAN COEFF	0.021440	0.037930
				EFFICIENCY	78.19	91.97
10	6	6	1	0.913947	1	0.090610
			2	0.107101	2	0.074610
			3	0.074900	3	0.043790
			4	0.069939	4	0.113770
			5	0.032225	5	0.131353
			6	0.176979	6	0.804107
				BIAS CORR	1.001910	
				VAN COEFF	0.014109	0.047979
				EFFICIENCY	100.00	100.00
				EFFICIENCY	98.70	99.69
10	6	5	1	0.913947	2	0.109971
			2	0.107080	3	0.043792
			3	0.074616	4	0.113770
			4	0.044671	5	0.130663
			5	0.703941	6	0.804470
				BIAS CORR	0.801919	
				VAN COEFF	0.014207	0.047999
				EFFICIENCY	99.08	99.91

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 2.00

N	M	L	i	LOCATION	i	SCALE			
10	6	4	1	0.919727	2	0.148483			
			2	0.144194	4	0.162243			
			4	0.136137	6	0.130497			
			6	0.203980	8	0.805689			
			BIAS CORR		0.491594				
			VAR CORR		0.016241	0.042610			
			EFFICIENCY		99.64	99.80			
10	6	3	1	0.512504	2	0.149725			
			3	0.217481	4	0.229110			
			6	0.235019	6	0.865116			
			BIAS CORR		0.491677				
			VAR CORR		0.016361	0.042712			
			EFFICIENCY		99.71	99.74			
			10	6	2	1	0.674560	2	0.290458
4	0.225480	4				0.431491			
BIAS CORR		0.611860							
VAR CORR		0.017007				0.051979			
EFFICIENCY		98.10				98.64			
10	6	1				1	1.000000	6	1.111464
						BIAS CORR		0.780786	
			VAR CORR		0.021560	0.044220			
			EFFICIENCY		75.91	99.72			
			10	6	0	1	0.919727	1	0.000000
						2	0.109831	2	0.086583
						3	0.081280	3	0.112707
4	0.064909	4				0.132810			
5	0.217149	5				1.011818			
BIAS CORR		0.454508							
VAR CORR		0.016518				0.041208			
EFFICIENCY		100.00	100.00						
10	6	0	1	0.939974	2	0.126194			
			2	0.107964	3	0.112716			
			3	0.113668	4	0.133711			
			6	0.250514	5	1.012478			

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

n	M	L	l	LOCATION	l	SCALE
				BIAS CORR	0.454264	
				VAR COEFF	0.016564	0.091252
				EFFICIENCY	99.04	99.91
10	5	3	1	0.572504	2	0.177286
			3	0.175721	4	0.192800
			5	0.291499	5	1.014041
				BIAS CORR	0.455799	
				VAR COEFF	0.016697	0.091331
				EFFICIENCY	99.29	99.76
10	5	2	1	0.630749	2	0.271553
			5	0.349791	5	1.004008
				BIAS CORR	0.456145	
				VAR COEFF	0.017092	0.091919
				EFFICIENCY	96.90	99.40
10	5	1	1	1.000000	5	1.276071
				BIAS CORR	0.280380	
				VAR COEFF	0.021460	0.097043
				EFFICIENCY	77.06	91.27
10	4	5	1	0.549777	1	0.074718
			2	0.117921	2	0.110091
			3	0.081234	3	0.138402
			4	0.253052	4	1.274926
				BIAS CORR	0.471009	
				VAR COEFF	0.017034	0.064344
				EFFICIENCY	100.00	100.00
				EFFICIENCY	90.92	89.42
10	4	3	1	0.547041	2	0.108746
			2	0.150899	3	0.138037
			4	0.307030	4	1.273772
				BIAS CORR	0.472998	
				VAR COEFF	0.017077	0.064412
				EFFICIENCY	99.74	99.89
10	4	2	1	0.630131	2	0.214812
			4	0.369869	4	1.349704
				BIAS CORR	0.474609	

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
10	4	1		0.017314		0.064572
			EFFICIENCY	98.39		99.71
10	4	1	1	1.000000	4	1.491343
			BIAS CORR	0.280290		
			VAR COEFF	0.021460		0.065275
			EFFICIENCY	79.36		93.57
10	3	3	1	0.563714	1	0.098722
			2	0.117189	2	0.144321
			3	0.119096	3	1.626959
			BIAS CORR	0.386021		
			VAR COEFF	0.17768		0.086914
			EFFICIENCY	100.00		100.00
10	3	2	1	0.413619	2	0.205982
			2	0.196385	1	1.636526
			BIAS CORR	0.386019		
			VAR COEFF	0.017873		0.086611
			EFFICIENCY	99.51		99.86
10	3	1	1	1.000000	3	1.798199
			BIAS CORR	0.280290		
			VAR COEFF	0.021460		0.081941
			EFFICIENCY	87.79		99.77
10	2	2	1	0.601160	1	0.146289
			2	0.150840	2	2.222017
			BIAS CORR	0.150711		
			VAR COEFF	0.010776		0.131779
			EFFICIENCY	100.00		100.00
			EFFICIENCY	91.62		19.75
10	2	1	1	1.000000	2	2.315651
			BIAS CORR	0.280290		
			VAR COEFF	0.021460		0.132030
			EFFICIENCY	80.42		99.81
10	1	1	1	1.000000	1	1.968249
			BIAS CORR	0.280290		

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF	0.071460	0.273240
				EFFICIENCY	100.00	100.00
				EFF(M/N)	72.17	9.29

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L		LOCATION		SCALE	
2	2	2	1	0.646614	1	0.302893	
			2	0.353386	2	0.722551	
				BIAS CORR	0.824266		
				VAR COEFF	0.069845		0.086852
				EFFICIENCY	100.00		100.00
		EFF (M/N)	100.00		100.00		
2	2	1	1	1.000000	2	0.907353	
				BIAS CORR	0.672420		
				VAR COEFF	0.082791		0.093106
				EFFICIENCY	84.36		93.25
2	1	1	1	1.000000	1	1.407129	
				BIAS CORR	0.672420		
				VAR COEFF	0.082791		0.163109
				EFFICIENCY	100.00		100.00
				EFF (M/N)	84.36		47.45
3	3	3	1	0.527766	1	0.199870	
			2	0.272234	2	0.290804	
			3	0.214933	3	0.535454	
				BIAS CORR	0.746700		
				VAR COEFF	0.049610		0.057628
				EFFICIENCY	100.00		100.00
		EFF (M/N)	100.00		100.00		
3	3	2	1	0.667677	2	0.380803	
			3	0.332323	3	0.548614	
				BIAS CORR	0.785940		
				VAR COEFF	0.047706		0.057639
				EFFICIENCY	95.61		98.25
3	3	1	1	1.000000	1	0.872180	
				BIAS CORR	0.571747		
				VAR COEFF	0.059856		0.069402
				EFFICIENCY	74.70		86.58
3	2	2	1	0.571745	1	0.225777	
			2	0.428255	2	0.493424	
				BIAS CORR	0.701088		
				VAR COEFF	0.049639		0.086600

TABLE I

Coefficients for Estimation of  
Location and Scale Parameters of a  
Weibull Population from L-Order Statistics  
(Sample Sizes 2 to 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				EFFICIENCY		65.34
				EFF(M/N)		
3	2	1	1	1.000000	2	1.144472
				BIAS CORR		
				0.571747		
				VAR COEFF		0.088870
				0.059856		
				EFFICIENCY		97.51
				82.93		
3	1	1	1	1.000000	1	1.749024
				BIAS CORR		
				0.571747		
				VAR COEFF		0.183109
				0.059856		
				EFFICIENCY		100.00
				EFF(M/N)		30.93
				76.20		
4	4	4	1	0.464469	1	0.097877
			2	0.167592	2	0.173788
			3	0.173033	3	0.259529
			4	0.174906	4	0.434697
				BIAS CORR		
				0.776078		
				VAR COEFF		0.041433
				0.033692		
				EFFICIENCY		100.00
				EFF(M/N)		100.00
4	4	3	1	0.955438	2	0.233000
			3	0.226311	3	0.258829
			4	0.178290	4	0.437524
				BIAS CORR		
				0.776078		
				VAR COEFF		0.042779
				0.034469		
				EFFICIENCY		99.31
				97.75		
4	4	2	1	0.986767	3	0.419376
			3	0.419098	4	0.452486
				BIAS CORR		
				0.708714		
				VAR COEFF		0.043838
				0.016385		
				EFFICIENCY		95.05
				92.60		
4	4	1	1	1.000000	4	0.174034
				BIAS CORR		
				0.904499		
				VAR COEFF		0.051480
				0.047591		
				EFFICIENCY		80.03
				70.86		

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	l	LOCATION	l	SCALE			
4	3	3	1	0.489267	1	0.129868			
			2	0.196102	2	0.228472			
			3	0.314631	3	0.768790			
			BIAS CORR	0.709290					
			VAR COEFF	0.035535		0.056469			
			EFFICIENCY	100.00		100.00			
			EFF (M/N)	94.81		74.26			
4	3	2	1	0.504742	2	0.307685			
			3	0.415058	3	0.774978			
			BIAS CORR	0.708719					
			VAR COEFF	0.036305		0.052986			
			EFFICIENCY	97.67		99.09			
			4	3	1	1.000000	3	1.010776	
			BIAS CORR	0.509599					
VAR COEFF	0.047551		0.059931						
EFFICIENCY	74.73		94.98						
4	2	2	1	0.536741	1	0.190812			
			2	0.463259	2	1.140677			
			BIAS CORR	0.724761					
			VAR COEFF	0.039161		0.080599			
			EFFICIENCY	100.00		100.00			
			EFF (M/N)	86.03		48.42			
			4	2	1	1.000000	2	1.318927	
BIAS CORR	0.509599								
VAR COEFF	0.047551		0.087714						
EFFICIENCY	82.36		98.72						
4	1	1	1	1.000000	1	1.967326			
			BIAS CORR	0.509599					
			VAR COEFF	0.047551		0.103109			
			EFFICIENCY	100.00		100.00			
			EFF (M/N)	70.86		22.90			
			5	5	5	1	0.423299	1	0.068304
						2	0.158769	2	0.118288
3	0.141848	3				0.165150			
4	0.136180	4				0.231394			



TABLE 1  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
			5	0.139244	5	0.365642
			BIAS CORR	0.762771		
			VAR COEFF	0.028635		0.033272
			EFFICIENCY	100.00		100.00
			EFF (M/N)	100.00		100.00
5	5	6	1	0.428465	2	0.161075
			2	0.271580	3	0.169491
			4	0.149488	4	0.232027
			5	0.140487	5	0.366957
			BIAS CORR	0.760966		
			VAR COEFF	0.026941		0.033387
			EFFICIENCY	98.86		99.66
5	5	5	1	0.500959	2	0.247979
			3	0.313175	4	0.308940
			4	0.185866	5	0.371237
			BIAS CORR	0.756438		
			VAR COEFF	0.027435		0.033424
			EFFICIENCY	97.08		98.37
5	5	4	1	0.547220	3	0.437240
			4	0.402780	5	0.459756
			BIAS CORR	0.708988		
			VAR COEFF	0.029242		0.035120
			EFFICIENCY	91.08		94.74
5	5	3	1	1.000000	5	0.742016
			BIAS CORR	0.466085		
			VAR COEFF	0.039777		0.043824
			EFFICIENCY	66.96		79.92
5	4	4	1	0.440073	1	0.085336
			2	0.164367	2	0.147076
			3	0.146084	3	0.209821
			4	0.249470	4	0.634249
			BIAS CORR	0.711238		
			VAR COEFF	0.027660		0.041827
			EFFICIENCY	100.00		100.00
			EFF (M/N)	96.79		79.55

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
5	4	3	1	0.444864	2	0.200637
			2	0.239427	3	0.209362
			4	0.315710	4	0.636812
			BIAS CORR	0.708494		
			VAR CCEFF	0.027984		0.042005
			EFFICIENCY	98.84		99.57
5	4	2	1	0.597220	2	0.308743
			4	0.402780	4	0.738070
			BIAS CORR	0.708888		
			VAR C EFF	0.029242		0.042675
			EFFICIENCY	94.59		98.01
5	4	1	1	1.000000	4	0.935539
			BIAS CORR	0.466085		
			VAR CCEFF	0.039777		0.045865
			EFFICIENCY	69.54		91.20
5	3	3	1	0.467736	1	0.112938
			2	0.173311	2	0.193056
			3	0.358953	3	0.937190
			BIAS CORR	0.640777		
			VAR CCEFF	0.029440		0.056415
			EFFICIENCY	100.00		100.00
			EFF (M/N)	90.47		56.98
5	3	2	1	0.544985	2	0.264313
			3	0.455015	3	0.941731
			BIAS CORR	0.649869		
			VAR CCEFF	0.024918		0.056729
			EFFICIENCY	98.40		99.45
5	3	1	1	1.000000	3	1.149433
			BIAS CORR	0.466085		
			VAR CCEFF	0.039777		0.058213
			EFFICIENCY	74.01		96.91
5	2	2	1	0.516368	1	0.165583
			2	0.483632	2	1.349834
			BIAS CORR	0.571310		
			VAR CCEFF	0.032636		0.086567

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL DISTRIBUTION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				81.61		38.44
				EFFICIENCY		
				EFF(M/N)		
5	2	1	1	1.000000	2	1.462720
				BIAS CORR		
				0.466085		
				VAR CCEFF		0.087243
				0.039777		
				EFFICIENCY		99.23
				82.05		
5	1	1	1	1.000000	1	2.145533
				BIAS CORR		
				0.466085		
				VAR CCEFF		0.183105
				0.039777		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		18.17
				66.96		
6	6	6	1	0.395235	1	0.051075
			2	0.139949	2	0.086903
			3	0.122149	3	0.121534
			4	0.114806	4	0.159668
			5	0.112298	5	0.208100
			6	0.115564	6	0.316613
				BIAS CORR		
				0.752561		
				VAR CCEFF		0.027569
				0.021980		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		100.00
				100.00		
6	6	5	1	0.397961	2	0.115614
			2	0.140715	3	0.121599
			3	0.184545	4	0.159899
			5	0.160610	5	0.208466
			6	0.116169	6	0.317210
				BIAS CORR		
				0.750009		
				VAR CCEFF		0.027622
				0.022139		
				EFFICIENCY		99.81
				99.29		
6	6	4	1	0.401961	2	0.177290
			2	0.200168	4	0.219278
			4	0.246765	5	0.209438
			6	0.151106	6	0.318941
				BIAS CORR		
				0.744709		
				VAR CCEFF		0.027781
				0.022371		
				EFFICIENCY		99.24
				98.26		

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE	
6	6	3	1	0.469540	3	0.297445	
			3	0.344021	5	0.279190	
			6	0.186440	6	0.323087	
				BIAS CORR	0.774993		
				VAR CCEFF	0.023034		0.020169
				EFFICIENCY	95.42		97.87
		6	6	2	1	0.553764	4
4	0.446236				6	0.402473	
				BIAS CORR	0.663423		
				VAR CCEFF	0.074607		0.051471
				EFFICIENCY	89.33		93.70
6	6	1	1	1.000000	5	0.885852	
				BIAS CORR	0.433304		
				VAR CCEFF	0.034378		0.037662
				EFFICIENCY	63.94		73.20
6	5	5	1	0.406682	1	0.061252	
			2	0.143835	2	0.104022	
			3	0.125310	3	0.145064	
			4	0.117254	4	0.189388	
			5	0.206919	5	0.543426	
				BIAS CORR	0.710806		
				VAR CCEFF	0.022621		0.033198
				EFFICIENCY	100.00		100.00
		EFF(M/N)	97.17		83.04		
6	5	4	1	0.409527	2	0.143312	
			2	0.144640	3	0.145196	
			3	0.189060	4	0.189733	
			5	0.256773	5	0.544631	
					BIAS CORR	0.707976	
				VAR CCEFF	0.022786		0.033276
		EFFICIENCY	99.28		99.77		
6	5	3	1	0.470167	2	0.212407	
			3	0.270436	4	0.260904	
			5	0.259397	5	0.547978	
				BIAS CORR	0.710460		

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY		0.033502 99.09
6	5	2	1	0.553764	2	0.356135
			4	0.446236	5	0.636307
				BIAS CORR		
				VAR CCEFF		0.034054
				EFFICIENCY		97.49
6	5	1	1	1.000000	5	0.885852
				BIAS CORR		
				VAR CCEFF		0.037662
				EFFICIENCY		88.15
6	4	4	1	0.425035	1	0.076326
			2	0.149860	2	0.129153
			3	0.129903	3	0.178995
			4	0.295202	4	0.703439
				BIAS CORR		
				VAR CCEFF		0.041786
				EFFICIENCY		100.00
				EFF(M/N)		65.98
6	4	3	1	0.428063	2	0.178241
			2	0.212152	3	0.175253
			4	0.359784	4	0.786013
				BIAS CORR		
				VAR CCEFF		0.041907
				EFFICIENCY		99.71
6	4	2	1	0.553764	2	0.263931
			4	0.446236	4	0.878536
				BIAS CORR		
				VAR CCEFF		0.042252
				EFFICIENCY		98.90
6	4	1	1	1.000000	4	1.053747
				BIAS CORR		
				VAR CCEFF		0.044032
				EFFICIENCY		94.90

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
6	3	3	1	0.453878	1	0.100851
			2	0.158817	2	0.169521
			3	0.387306	3	1.073971
			BIAS CORR	0.603077		
			VAR CCEFF	0.025297		0.056390
			EFFICIENCY	100.00		100.00
			EFF(M/N)	86.89		48.89
6	3	2	1	0.521025	2	0.234525
			3	0.478975	3	1.077445
			BIAS CORR	0.604628		
			VAR CCEFF	0.025613		0.056600
			EFFICIENCY	98.77		99.63
6	3	1	1	1.000000	3	1.264233
			BIAS CORR	0.433304		
			VAR CCEFF	0.034378		0.057514
			EFFICIENCY	73.58		98.05
6	2	2	1	0.503025	1	0.147671
			2	0.496975	2	1.485760
			BIAS CORR	0.531052		
			VAR CCEFF	0.028140		0.086553
			EFFICIENCY	100.00		100.00
			EFF(M/N)	78.11		31.85
6	2	1	1	1.000000	2	1.587327
			BIAS CORR	0.433304		
			VAR CCEFF	0.034378		0.087005
			EFFICIENCY	81.85		99.48
6	1	1	1	1.000000	1	2.307851
			BIAS CORR	0.433304		
			VAR CCEFF	0.034378		0.183105
			EFFICIENCY	100.00		100.00
			EFF(M/N)	63.94		15.06
7	7	7	1	0.373495	1	0.039430
			2	0.126634	2	0.067167
			3	0.108517	3	0.092624
			4	0.100429	4	0.119177

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
			5	0.096671	5	0.149537
			6	0.095542	6	0.189028
			7	0.098712	7	0.279866
			BIAS CORR	0.744357		
			VAR CCEFF	0.018686		0.023531
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
7	7	6	1	0.375104	2	0.093170
			2	0.127061	3	0.092622
			3	0.159639	4	0.119268
			5	0.143274	5	0.149687
			6	0.095829	6	0.189243
			7	0.099094	7	0.280194
			BIAS CORR	0.743472		
			VAR CCEFF	0.018770		0.023559
			EFFICIENCY	99.55		99.88
7	7	5	1	0.377161	2	0.135275
			2	0.177239	4	0.166500
			4	0.210732	5	0.150009
			6	0.135329	6	0.189756
			7	0.099539	7	0.281018
			BIAS CORR	0.742268		
			VAR CCEFF	0.018879		0.023630
			EFFICIENCY	98.98		99.58
7	7	4	1	0.429683	3	0.223119
			3	0.234260	5	0.206069
			5	0.207341	6	0.190900
			7	0.128716	7	0.282919
			BIAS CORR	0.739805		
			VAR CCEFF	0.019088		0.023796
			EFFICIENCY	97.90		98.88
7	7	3	1	0.442642	4	0.332176
			3	0.296454	6	0.255526
			6	0.260904	7	0.287923
			BIAS CORR	0.704618		
			VAR CCEFF	0.019676		0.024242
			EFFICIENCY	94.97		97.07

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	i	LOCATION	j	SCALE	
7	7	2	1	0.562259	5	0.480327	
			5	0.437741	7	0.36067	
			BIAS CORR		0.670981		
			VAR CCEFF		0.021126		0.025475
			EFFICIENCY		88.45		92.37
7	7	1	2	1.000000	6	0.849921	
			BIAS CORR		0.588767		
			VAR CCEFF		0.030113		0.032258
			EFFICIENCY		62.05		72.95
7	6	6	1	0.382126	1	0.046569	
			2	0.129493	2	0.078279	
			3	0.110862	3	0.107743	
			4	0.102443	4	0.138332	
			5	0.098214	5	0.172588	
			6	0.176861	6	0.477329	
			BIAS CORR		0.709373		
			VAR CCEFF		0.019120		0.027515
			EFFICIENCY		100.00		100.00
			E+P(M/N)		97.73		85.52
7	6	5	1	0.383802	2	0.108627	
			2	0.129939	3	0.107763	
			3	0.163022	4	0.138464	
			5	0.145762	5	0.172795	
			6	0.177475	6	0.477980	
			BIAS CORR		0.708332		
			EFFICIENCY		99.55		99.86
7	6	4	1	0.385936	2	0.157690	
			2	0.181221	4	0.193509	
			4	0.214857	5	0.173249	
			6	0.217987	6	0.479559	
			EFFICIENCY		98.96		99.51
7	6	3	1	0.442642	3	0.260020	
			EFFICIENCY				



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
			3	0.296454	5	0.238620
			6	0.260904	6	0.483176
			BIAS CORR	0.704618		
			VAR CCEFF	0.019676		0.027875
			EFFICIENCY	97.18		98.71
7	6	2	1	0.562259	4	0.387244
			5	0.437741	6	0.564154
			BIAS CORR	0.670981		
			VAR CCEFF	0.021126		0.028478
			EFFICIENCY	90.50		96.62
7	6	1	2	1.000000	6	0.849921
			BIAS CORR	0.588767		
			VAR CCEFF	0.030113		0.032258
			EFFICIENCY	63.50		85.30
7	5	5	1	0.395342	1	0.055822
			2	0.133760	2	0.093590
			3	0.114313	3	0.128582
			4	0.105165	4	0.164086
			5	0.251421	5	0.678947
			BIAS CORR	0.668742		
			VAR CCEFF	0.019786		0.033168
			EFFICIENCY	100.00		100.00
			EFF(M/N)	94.44		70.94
7	5	4	1	0.397109	2	0.130002
			2	0.134233	3	0.128640
			3	0.167876	4	0.164287
			5	0.300782	5	0.680024
			BIAS CORR	0.667526		
			VAR CCEFF	0.019878		0.033224
			EFFICIENCY	99.54		99.83
7	5	3	1	0.451488	2	0.188652
			3	0.245186	4	0.230139
			5	0.303326	5	0.682567
			BIAS CORR	0.669888		
			VAR CCEFF	0.020065		0.033362
			EFFICIENCY	98.61		99.42

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
7	5	2	1	0.562259	3	0.310780
			5	0.437741	5	0.764880
			BIAS CORR	0.670981		
			VAR CCEFF	0.021126		0.033682
			EFFICIENCY	93.66		98.48
7	5	1	2	1.000000	5	0.990542
			BIAS CORR	0.588767		
			VAR CCEFF	0.030113		0.035724
			EFFICIENCY	65.71		92.85
7	4	4	1	0.414724	1	0.069465
			2	0.139891	2	0.116190
			3	0.118974	3	0.158620
			4	0.326411	4	0.906433
			BIAS CORR	0.621941		
			VAR CCEFF	0.020769		0.041766
			EFFICIENCY	100.00		100.00
			EFF(M/N)	89.97		56.34
7	4	3	1	0.416925	2	0.161564
			2	0.194654	3	0.158750
			4	0.388421	4	0.908148
			BIAS CORR	0.621707		
			VAR CCEFF	0.020887		0.041852
EFFICIENCY	99.43		99.79			
7	4	2	1	0.527221	2	0.234201
			4	0.472779	4	0.992922
			BIAS CORR	0.625279		
			VAR CCEFF	0.021422		0.042063
EFFICIENCY	96.95		99.30			
7	4	1	2	1.000000	4	1.151737
			BIAS CORR	0.588767		
			VAR CCEFF	0.030113		0.043209
			EFFICIENCY	68.97		96.66
7	3	3	1	0.444191	1	0.091696
			2	0.148760	2	0.152393

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
			3	0.407049	3	1.190810
			BIAS CORR	0.566931		
			VAR CCEFF	0.022274		0.056376
			EFFICIENCY	100.00		100.00
			EFF(M/N)	83.89		41.74
7	3	2	1	0.504951	2	0.212415
			3	0.495049	2	1.193562
			BIAS CORR	0.568608		
			VAR CCEFF	0.022505		0.056527
			EFFICIENCY	98.98		99.73
7	3	1	2	1.000000	3	1.364169
			BIAS CORR	0.588767		
			VAR CCEFF	0.030113		0.057147
			EFFICIENCY	73.97		98.65
7	2	2	1	0.493603	1	0.134147
			2	0.506397	2	1.605642
			BIAS CORR	0.499240		
			VAR CCEFF	0.024835		0.086545
			EFFICIENCY	100.00		100.00
			EFF(M/N)	75.24		27.19
7	2	1	2	1.000000	2	1.698465
			BIAS CORR	0.588767		
			VAR CCEFF	0.030113		0.086868
			EFFICIENCY	82.47		99.63
7	1	1	1	1.000000	1	2.454632
			BIAS CORR	0.407393		
			VAR CCEFF	0.030390		0.183105
			EFFICIENCY	100.00		100.00
			EFF(M/N)	61.49		12.65
8	8	8	1	0.356281	1	0.032274
			2	0.116682	2	0.053833
			3	0.098498	3	0.073515
			4	0.090033	4	0.093376
			5	0.085689	5	0.114864
			6	0.083565	6	0.136999

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	J	LOCATION	I	SCALE			
			7	0.083135	7	0.173230			
			8	0.086116	8	0.251223			
			BIAS CORR	0.737548					
			VAR COEFF	0.016235		0.020922			
			EFFICIENCY	100.00		100.00			
			EFF(M/N)	100.00		100.00			
				8	7	1	0.357358	2	0.075111
						2	0.117014	3	0.073494
						3	0.098688	4	0.093415
						4	0.135236	5	0.114930
6	0.122070	6				0.140103			
7	0.083291	7				0.173362			
8	0.086343	8				0.251422			
BIAS CORR	0.736945								
VAR COEFF	0.016286					0.020939			
EFFICIENCY	99.69					99.67			
	8	6	1	0.358713	2	0.107632			
			2	0.117339	4	0.131969			
			3	0.143014	5	0.115037			
			4	0.177888	6	0.140336			
			7	0.116471	7	0.173638			
			8	0.086575	8	0.251825			
			BIAS CORR	0.735057					
			VAR COEFF	0.016348		0.020976			
			EFFICIENCY	99.31		99.74			
				8	5	1	0.360946	3	0.170133
2	0.162100	5				0.160899			
4	0.188324	6				0.140740			
6	0.177703	7				0.174332			
8	0.110928	8				0.252871			
BIAS CORR	0.731432								
VAR COEFF	0.016455					0.020661			
EFFICIENCY	98.67					99.33			
	8	4				1	0.409633	3	0.177380
						3	0.258650	5	0.242898
			6	0.219467	7	0.231188			
			8	0.112250	8	0.254818			

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.731997	
				VAR CCEFF	0.016671	0.020836
				EFFICIENCY	97.38	98.50
8	8	3	1	0.459747	4	0.341750
			4	0.313809	7	0.283020
			7	0.226444	8	0.260475
				BIAS CORR	0.706550	
				VAR CCEFF	0.017182	0.021323
				EFFICIENCY	94.49	96.24
8	8	2	1	0.533708	5	0.498151
			5	0.466292	8	0.368859
				BIAS CORR	0.638958	
				VAR CCEFF	0.018601	0.022512
				EFFICIENCY	87.28	91.10
8	8	1	2	1.000000	7	0.822369
				BIAS CORR	0.555716	
				VAR CCEFF	0.026800	0.028421
				EFFICIENCY	60.58	72.21
8	7	7	1	0.363076	1	0.036881
			2	0.118866	2	0.061461
			3	0.100319	3	0.083937
			4	0.091592	4	0.106345
			5	0.087079	5	0.130657
			6	0.084596	6	0.158386
			7	0.154473	7	0.476809
				BIAS CORR	0.707518	
				VAR CCEFF	0.016546	0.023490
				EFFICIENCY	100.00	100.00
				EFF(M/N)	98.12	87.37
8	7	6	1	0.364190	2	0.085787
			2	0.119709	2	0.083322
			3	0.100516	4	0.106402
			4	0.137534	5	0.130747
			6	0.123729	6	0.158521
			7	0.154823	7	0.427190
				BIAS CORR	0.706418	

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY		0.023512 99.91
8	7	5	1	0.365581	2	0.122954
			2	0.119545	4	0.150459
			3	0.145616	5	0.130901
			5	0.180649	6	0.158825
			7	0.188610	7	0.428015
				BIAS CORR		
				VAR CCEFF		0.023560
				EFFICIENCY		99.70
8	7	4	1	0.412669	3	0.201171
			3	0.215499	5	0.183254
			5	0.181839	6	0.159370
			7	0.189993	7	0.429967
				BIAS CORR		
				VAR CCEFF		0.023670
				EFFICIENCY		99.24
8	7	3	1	0.459747	3	0.202803
			4	0.313809	5	0.276396
			7	0.226444	7	0.496646
				BIAS CORR		
				VAR CCEFF		0.023895
				EFFICIENCY		98.31
8	7	2	1	0.533708	4	0.390941
			5	0.466292	7	0.562516
				BIAS CORR		
				VAR CCEFF		0.024530
				EFFICIENCY		95.76
8	7	1	2	1.000000	7	0.822369
				BIAS CORR		
				VAR CCEFF		0.028421
				EFFICIENCY		82.65
8	6	6	1	0.373122	1	0.042987
			2	0.122091	2	0.071674
			3	0.102852	3	0.097426

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
			4	0.093861	4	0.123583
			5	0.088821	5	0.150776
			6	0.219253	6	0.601613
			BIAS CORR	0.673056		
			VAR CCEFF	0.017006		0.027492
			EFFICIENCY	100.00		100.00
			EFF(M/N)	95.47		74.65
8	6	5	1	0.374280	2	0.100042
			2	0.122448	3	0.097423
			3	0.103059	4	0.123668
			4	0.140730	5	0.150902
			6	0.259482	6	0.602231
			BIAS CORR	0.671853		
			VAR CCEFF	0.017060		0.027521
			EFFICIENCY	99.68		99.89
8	6	4	1	0.375767	2	0.143232
			2	0.168569	4	0.174867
			4	0.195213	5	0.151126
			6	0.260450	6	0.603579
			BIAS CORR	0.672222		
			VAR CCEFF	0.017133		0.027586
			EFFICIENCY	99.26		99.66
8	6	3	1	0.426609	3	0.234200
			3	0.268639	5	0.212148
			6	0.304752	6	0.606583
			BIAS CORR	0.672087		
			VAR CCEFF	0.017366		0.027736
			EFFICIENCY	97.93		99.12
8	6	2	1	0.533708	4	0.343271
			5	0.466292	6	0.682729
			BIAS CORR	0.678958		
			VAR CCEFF	0.018601		0.028110
			EFFICIENCY	91.43		97.80
8	6	1	2	1.000000	6	0.944890
			BIAS CORR	0.555716		
			VAR CCEFF	0.026800		0.030270

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				63.45		90.82
			EFFICIENCY			
8	5	5	1	0.387222	1	0.051523
			2	0.126446	2	0.085504
			3	0.106444	3	0.116460
			4	0.096627	4	0.146458
			5	0.283260	5	0.790833
			BIAS CORR	0.634077		0.033152
			VAR CCEFF	0.017653		100.00
			EFFICIENCY	100.00		61.90
			EFF(M/N)	91.97		
8	5	4	1	0.388483	2	0.119530
			2	0.126764	3	0.116480
			3	0.153777	4	0.146588
			5	0.330976	5	0.791772
			BIAS CORR	0.633495		0.033194
			VAR CCEFF	0.017713		99.87
			EFFICIENCY	99.66		
8	5	3	1	0.438615	2	0.171244
			3	0.227977	4	0.207890
			5	0.333408	5	0.793757
			BIAS CORR	0.635713		0.033287
			VAR CCEFF	0.017856		99.59
			EFFICIENCY	98.86		
8	5	2	1	0.533708	2	0.275716
			5	0.466292	5	0.869996
			BIAS CORR	0.638958		0.033500
			VAR CCEFF	0.018601		98.96
			EFFICIENCY	94.91		
8	5	1	2	1.000000	5	1.077290
			BIAS CORR	0.555716		0.034830
			VAR CCEFF	0.026800		95.18
			EFFICIENCY	65.87		
8	4	4	1	0.407187	1	0.064025
			2	0.132610	2	0.106220
			3	0.111063	3	0.143535



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
			4	0.349140	4	1.011442
			BIAS CORR	0.589548		
			VAR CCEFF	0.018575		0.041754
			EFFICIENCY	100.00		100.00
			EFF(M/N)	87.40		49.15
8	4	3	1	0.408922	2	0.148544
			2	0.182369	3	0.143600
			4	0.408709	4	1.012879
			BIAS CORR	0.589615		
			VAR CCEFF	0.018660		0.041819
			EFFICIENCY	99.55		99.84
8	4	2	1	0.509140	2	0.212425
			4	0.490860	4	1.091177
			BIAS CORR	0.593373		
			VAR CCEFF	0.019062		0.041760
			EFFICIENCY	97.45		99.51
8	4	1	2	1.000000	4	1.237230
			BIAS CORR	0.555716		
			VAR CCEFF	0.026800		0.042763
			EFFICIENCY	69.31		97.64
8	3	3	1	0.437033	1	0.084471
			2	0.141365	2	0.139243
			3	0.421602	3	1.293750
			BIAS CORR	0.537371		
			VAR CCEFF	0.019961		0.056368
			EFFICIENCY	100.00		100.00
			EFF(M/N)	81.33		36.41
8	3	2	1	0.493384	2	0.195171
			3	0.506616	2	1.295993
			BIAS CORR	0.539058		
			VAR CCEFF	0.020140		0.056481
			EFFICIENCY	99.11		99.80
8	3	1	2	1.000000	3	1.453656
			BIAS CORR	0.555716		
			VAR CCEFF	0.026800		0.056930

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				74.48		99.01
				EFFICIENCY		
8	2	2	1	0.486594	1	0.123494
			2	0.513406	2	1.713658
				BIAS CORR		0.086540
				VAR CCEFF		100.00
				EFFICIENCY		23.71
				EFF(M/N)		
8	2	1	2	1.000000	2	1.799481
				BIAS CORR		0.086782
				VAR CCEFF		99.72
				EFFICIENCY		
8	1	1	1	1.000000	1	2.589305
				BIAS CORR		0.183105
				VAR CCEFF		100.00
				EFFICIENCY		11.21
				EFF(M/N)		
9	9	9	1	0.342195	1	0.026755
			2	0.108933	2	0.044336
			3	0.090808	3	0.060119
			4	0.082144	4	0.075673
			5	0.077495	5	0.091960
			6	0.074860	6	0.109962
			7	0.073646	7	0.131354
			8	0.073569	8	0.159970
			9	0.076349	9	0.228220
				BIAS CORR		0.018195
				VAR CCEFF		100.00
				EFFICIENCY		100.00
				EFF(M/N)		
9	9	8	1	0.342916	2	0.062145
			2	0.109176	3	0.060094
			3	0.090889	4	0.075653
			4	0.121505	5	0.091985
			6	0.111600	6	0.110023
			7	0.073694	7	0.131417
			8	0.073728	8	0.160058

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
			9	0.076493	9	0.229347
			BIAS CORR	0.731318		
			VAR CCEFF	0.014373		0.018205
			EFFICIENCY	99.78		99.94
9	9	7	1	0.343800	2	0.088245
			2	0.109299	4	0.107845
			3	0.130277	5	0.091989
			5	0.159378	6	0.110192
			7	0.106788	7	0.131498
			8	0.073778	8	0.160252
			9	0.076680	9	0.228603
			BIAS CORR	0.730784		
			VAR CCEFF	0.014410		0.018226
			EFFICIENCY	99.53		99.83
9	9	6	1	0.344997	2	0.088382
			2	0.149466	4	0.154553
			4	0.170966	6	0.153887
			6	0.155152	7	0.131683
			8	0.102643	8	0.160637
			9	0.076877	9	0.229131
			BIAS CORR	0.730002		
			VAR CCEFF	0.014465		0.018270
			EFFICIENCY	99.15		99.59
9	9	5	1	0.387965	3	0.144244
			3	0.195830	5	0.180040
			5	0.160919	7	0.180757
			7	0.157005	8	0.161100
			9	0.098282	9	0.230075
			BIAS CORR	0.728389		
			VAR CCEFF	0.014579		0.018347
			EFFICIENCY	98.38		99.17
9	9	4	1	0.394034	4	0.210623
			3	0.237453	6	0.233058
			6	0.250948	8	0.214124
			9	0.117565	9	0.232205
			BIAS CORR	0.719429		
			VAR CCEFF	0.014812		0.018530

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	96.83	98.19
9	9	3	1	0.439902	4	0.272248
			4	0.332680	7	0.338491
			8	0.227418	9	0.283677
				BIAS CORR		0.018950
				VAR CCEFF		96.02
				EFFICIENCY		
9	9	2	1	0.540110	6	0.511440
			6	0.459890	9	0.337256
				BIAS CORR		0.020089
				VAR CCEFF		90.57
				EFFICIENCY		
9	9	1	3	1.000000	6	0.800360
				BIAS CORR		0.025550
				VAR CCEFF		71.21
				EFFICIENCY		
9	8	8	1	0.347715	1	0.030091
			2	0.110679	2	0.049881
			3	0.092211	3	0.067429
			4	0.083444	4	0.085131
			5	0.078578	5	0.103004
			6	0.075878	6	0.123200
			7	0.074362	7	0.146356
			8	0.137132	8	0.386786
				BIAS CORR		0.020491
				VAR CCEFF		100.00
				EFFICIENCY		88.20
				EFF(M/N)		
9	8	7	1	0.348456	2	0.069915
			2	0.110929	3	0.067464
			3	0.092295	4	0.085159
			4	0.123359	5	0.103040
			6	0.113135	6	0.123277
			7	0.074412	7	0.146437
			8	0.137414	8	0.387026
				BIAS CORR		0.705000

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE			
				0.014606		0.020504			
				99.78		99.94			
9	8	6	1	0.349367	2	0.099231			
			2	0.111059	4	0.121272			
			3	0.132313	5	0.103058			
			5	0.161678	6	0.123484			
			7	0.107960	7	0.146547			
			8	0.137623	8	0.387530			
				BIAS CORR	0.704394				
				VAR CCEFF	0.014644		0.020530		
		EFFICIENCY	99.52		99.81				
9	8	5	1	0.350592	2	0.099413			
			2	0.151852	4	0.173649			
			4	0.173495	6	0.172484			
			6	0.157124	7	0.146793			
			8	0.166938	8	0.388550			
				BIAS CORR	0.703542				
				VAR CCEFF	0.014700		0.020586		
					EFFICIENCY	99.14		99.54	
9	8	4	1	0.395213	2	0.162288			
			3	0.238307	5	0.213280			
			6	0.197927	7	0.201902			
			8	0.168553	8	0.390129			
				BIAS CORR	0.704812				
				VAR CCEFF	0.014855		0.020683		
					EFFICIENCY	98.11		99.07	
			9	8	3	1	0.439902	4	0.237095
4	0.332680	6				0.261169			
8	0.227418	8				0.451709			
	BIAS CORR	0.699406							
	VAR CCEFF	0.015255					0.020912		
		EFFICIENCY				95.54		97.98	
9	8	2				1	0.540110	5	0.414515
						6	0.459890	8	0.512636
				BIAS CORR	0.648329				
				VAR CCEFF	0.016554		0.021509		

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				88.04		95.27
				EFFICIENCY		
8	1		3	1.000000	8	0.800360
				BIAS CORR		
				0.651354		
				VAR CCEFF		0.025550
				0.024094		
				EFFICIENCY		80.20
				60.49		
7	7		1	0.355680	1	0.034407
			2	0.113118	2	0.056813
			3	0.094350	3	0.077376
			4	0.085013	4	0.096417
			5	0.080257	5	0.117593
			6	0.077033	6	0.139267
			7	0.194549	7	0.541850
				BIAS CORR		
				0.675639		
				VAR CCEFF		0.023472
				0.014908		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		77.52
				96.20		
7	6		1	0.356453	2	0.079728
			2	0.113378	2	0.077355
			3	0.094440	4	0.096457
			4	0.125786	5	0.117644
			6	0.115089	6	0.139366
			7	0.194853	7	0.542223
				BIAS CORR		
				0.675063		
				VAR CCEFF		0.023489
				0.014942		
				EFFICIENCY		99.93
				99.77		
7	5		1	0.357389	2	0.113363
			2	0.113512	4	0.137890
			3	0.135215	5	0.117687
			5	0.164783	6	0.139627
			7	0.229100	7	0.542940
				BIAS CORR		
				0.674406		
				VAR CCEFF		0.023524
				0.014981		
				EFFICIENCY		99.78
				99.51		
7	4		1	0.401308	2	0.113613
			3	0.202362	4	0.197774
			5	0.165745	6	0.195653

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
			7	0.230586	7	0.544413
			BIAS CORR	0.676813		
			VAR CCEFF	0.015082		0.023596
			EFFICIENCY	98.85		99.47
9	7	3	1	0.443014	3	0.185379
			4	0.288399	5	0.242633
			7	0.268587	7	0.608599
			BIAS CORR	0.677874		
			VAR CCEFF	0.015358		0.023719
			EFFICIENCY	97.07		98.96
9	7	2	1	0.540110	4	0.343639
			6	0.459890	7	0.671973
			BIAS CORR	0.648329		
			VAR CCEFF	0.016554		0.024108
			EFFICIENCY	90.06		97.36
9	7	1	3	1.000000	7	0.909950
			BIAS CORR	0.651354		
			VAR CCEFF	0.024094		0.026414
			EFFICIENCY	61.88		88.86
9	6	6	1	0.366448	1	0.040029
			2	0.116564	2	0.066501
			3	0.096774	3	0.089149
			4	0.087576	4	0.112785
			5	0.081953	5	0.135288
			6	0.250685	6	0.705063
			BIAS CORR	0.642293		
			VAR CCEFF	0.015363		0.027479
			EFFICIENCY	100.00		100.00
			EFF(M/N)	93.35		66.21
9	6	5	1	0.367255	2	0.093171
			2	0.116836	3	0.089134
			3	0.096870	4	0.112845
			4	0.129216	5	0.135361
			6	0.289823	6	0.705632
			BIAS CORR	0.641652		
			VAR CCEFF	0.015398		0.027502

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER - 2.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	99.77	99.92
4	6	4	1	0.368474	2	0.131956
			2	0.159368	4	0.160621
			4	0.181405	5	0.135437
			6	0.290752	6	0.706746
				BIAS CORR		0.027548
				VAR COEFF		99.75
				EFFICIENCY		
9	6	3	1	0.415522	2	0.132302
			3	0.244724	4	0.225636
			6	0.334755	6	0.773069
				BIAS CORR		0.027644
				VAR COEFF		99.40
				EFFICIENCY		
4	6	2	1	0.540110	4	0.312465
			6	0.459890	6	0.780100
				BIAS CORR		0.027915
				VAR COEFF		98.44
				EFFICIENCY		
9	6	1	3	1.000000	6	1.023449
				BIAS CORR		0.029374
				VAR COEFF		93.67
				EFFICIENCY		
	5	5	1	0.381100	1	0.048031
			2	0.120866	2	0.078958
			3	0.100551	3	0.107156
			4	0.090217	4	0.133163
			5	0.307266	5	0.887210
				BIAS CORR		0.033142
				VAR COEFF		100.00
				EFFICIENCY		54.90
				EFF(M/N)		
9	5	4	1	0.382078	2	0.110976
			2	0.121093	3	0.107156
			3	0.143620	4	0.133255



TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
			5	0.353210	5	0.888026
			BIAS CORR	0.604626		
			VAR CCEFF	0.016023		0.033175
			EFFICIENCY	99.74		99.90
9	5	3	1	0.19120	2	0.157654
			3	0.215340	4	0.190750
			5	0.355540	5	0.889613
			BIAS CORR	0.606709		
			VAR CCEFF	0.016138		0.033242
			EFFICIENCY	99.03		99.70
9	5	2	1	0.514045	3	0.256409
			5	0.485955	5	0.960480
			BIAS CORR	0.610840		
			VAR CCEFF	0.016700		0.031395
			EFFICIENCY	95.69		99.24
9	5	1	3	1.000000	5	1.153055
			BIAS CORR	0.651354		
			VAR CCEFF	0.024094		0.034335
			EFFICIENCY	66.33		96.53
9	4	4	1	0.401427	1	0.059576
			2	0.127060	2	0.098292
			3	0.105056	3	0.131771
			4	0.366457	4	1.104106
			BIAS CORR	0.562358		
			VAR CCEFF	0.016844		0.041747
			EFFICIENCY	100.00		100.00
			EFF(M/N)	85.14		43.58
9	4	3	1	0.402868	2	0.138038
			2	0.173235	3	0.131799
			4	0.423896	4	1.105328
			BIAS CORR	0.562572		
			VAR CCEFF	0.016909		0.041797
			EFFICIENCY	99.62		99.88
9	4	2	1	0.495966	2	0.195532
			4	0.504034	4	1.178211

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.566326	
				VAR CCEFF	0.017227	0.041859
				EFFICIENCY	97.78	99.64
9	4	1	3	1.000000	4	1.313967
				BIAS CORR	0.651354	
				VAR CCEFF	0.024094	0.042494
				EFFICIENCY	69.91	98.24
9	3	3	1	0.431525	1	0.078592
			2	0.135695	2	0.128750
			3	0.432780	3	1.386365
				BIAS CORR	0.512580	
				VAR CCEFF	0.018128	0.056362
				EFFICIENCY	100.00	100.00
				EFF(M/N)	79.12	32.28
9	3	2	1	0.484649	2	0.181245
			3	0.515351	3	1.388235
				BIAS CORR	0.514235	
				VAR CCEFF	0.018272	0.056450
				EFFICIENCY	99.21	99.84
9	3	1	3	1.000000	3	1.535264
				BIAS CORR	0.651354	
				VAR CCEFF	0.024094	0.056790
				EFFICIENCY	75.24	99.25
9	2	2	1	0.481175	1	0.114836
			2	0.518825	2	1.812467
				BIAS CORR	0.451422	
				VAR CCEFF	0.020269	0.086537
				EFFICIENCY	100.00	100.00
				EFF(M/N)	70.76	21.03
9	2	1	2	1.000000	2	1.892539
				BIAS CORR	0.528391	
				VAR CCEFF	0.024213	0.086725
				EFFICIENCY	83.71	99.78
9	1	1	1	1.000000	1	2.714215

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		0.368431
				VAR CCEFF		0.024855
				EFFICIENCY		100.00
				EFF(M/N)		57.70
10	10	10	1	0.330377	1	0.022625
			2	0.102710	2	0.037301
			3	0.084709	3	0.050298
			4	0.075939	4	0.062909
			5	0.071135	5	0.075780
			6	0.068171	6	0.089575
			7	0.066600	7	0.105029
			8	0.065825	8	0.123613
			9	0.065979	9	0.148693
			10	0.068555	10	0.209311
				BIAS CORR		0.726751
				VAR CCEFF		0.012837
				EFFICIENCY		100.00
				EFF(M/N)		100.00
10	10	9	1	0.330927	2	0.052475
			2	0.102761	3	0.050272
			3	0.085025	4	0.062922
			4	0.075804	5	0.075779
			5	0.106652	6	0.089625
			7	0.098287	7	0.105051
			8	0.065785	8	0.123667
			9	0.066117	9	0.148750
			10	0.068643	10	0.209396
				BIAS CORR		0.726256
				VAR CCEFF		0.012858
				EFFICIENCY		99.84
10	10	8	1	0.331472	2	0.074014
			2	0.103202	4	0.090222
			3	0.084592	5	0.075704
			4	0.111540	6	0.089846
			6	0.134543	7	0.104948
			8	0.094833	8	0.123858
			9	0.066039	9	0.148831
			10	0.068781	10	0.209562

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				0.725635		
				0.012882		0.016361
				99.65		99.88
10	10	7	1	0.332372	2	0.074079
			2	0.103053	4	0.127644
			3	0.120852	6	0.126988
			5	0.145958	7	0.104843
			7	0.137474	8	0.124205
			9	0.091436	9	0.148953
			10	0.068855	10	0.209877
				0.724580		
				0.012914		0.016385
				99.40		99.73
10	10	6	1	0.333769	3	0.120505
			2	0.140362	5	0.154829
			4	0.158345	7	0.147340
			6	0.140371	8	0.123809
			8	0.139659	9	0.149568
			10	0.087493	10	0.210353
				0.721856		
				0.012974		0.016426
				98.94		99.48
10	10	5	1	0.374319	3	0.154166
			3	0.183482	6	0.219109
			5	0.185237	8	0.170440
			8	0.168759	9	0.150092
			10	0.088203	10	0.211500
				0.721995		
				0.013084		0.016516
				98.11		98.94
10	10	4	1	0.380571	4	0.219884
			3	0.221172	7	0.260254
			6	0.223248	9	0.199339
			9	0.175008	10	0.213359
				0.699884		
				0.013005		0.016672
				96.48		98.01

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE	
10	10	3	1	0.424731	5	0.295519	
			4	0.305497	8	0.319119	
			8	0.269772	10	0.260887	
			BIAS CORR		0.676574		
			VAR CCEFF		0.013746		0.017062
			EFFICIENCY		93.39		95.77
10	10	2	1	0.519146	7	0.520784	
			6	0.480854	10	0.311934	
			BIAS CORR		0.623657		
			VAR CCEFF		0.014962		0.018196
			EFFICIENCY		85.80		89.80
10	10	1	3	1.000000	9	0.782238	
			BIAS CORR		0.620866		
			VAR CCEFF		0.021855		0.023316
			EFFICIENCY		58.74		70.09
10	9	9	1	0.334977	1	0.025141	
			2	0.104117	2	0.041394	
			3	0.085906	3	0.055980	
			4	0.076878	4	0.069550	
			5	0.072170	5	0.084409	
			6	0.068923	6	0.098936	
			7	0.067389	7	0.116318	
			8	0.066333	8	0.136080	
			9	0.123307	9	0.354204	
			BIAS CORR		0.703452		
			VAR CCEFF		0.013016		0.018170
			EFFICIENCY		100.00		100.00
			EFF(M/N)		98.63		89.93
10	9	8	1	0.335538	2	0.058258	
			2	0.104170	3	0.055954	
			3	0.086226	4	0.069568	
			4	0.076743	5	0.084400	
			5	0.108081	6	0.098996	
			7	0.099427	7	0.116348	
			8	0.066294	8	0.136146	
			9	0.123521	9	0.354360	

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.702922	
				VAR CCEFF	0.013037	0.018178
				EFFICIENCY	99.84	99.95
10	9	7	1	0.336101	2	0.082238
			2	0.104620	4	0.099962
			3	0.085791	5	0.084337
			4	0.113002	6	0.099249
			6	0.141240	7	0.116244
			8	0.095689	8	0.136369
			9	0.123557	9	0.354631
				BIAS CORR	0.702243	
				VAR CCEFF	0.013062	0.018194
				EFFICIENCY	99.65	99.87
10	9	6	1	0.337012	2	0.082324
			2	0.104470	4	0.141674
			3	0.122501	6	0.140649
			5	0.147878	7	0.116146
			7	0.138923	8	0.136777
			9	0.149217	9	0.355112
				BIAS CORR	0.701161	
				VAR CCEFF	0.013095	0.018224
				EFFICIENCY	99.40	99.70
10	9	5	1	0.376788	3	0.133857
			3	0.184810	5	0.171848
			5	0.148622	7	0.163140
			7	0.139720	8	0.136367
			9	0.150060	9	0.356307
				BIAS CORR	0.703609	
				VAR CCEFF	0.013171	0.018274
				EFFICIENCY	98.82	99.43
10	9	4	1	0.380571	2	0.171393
			3	0.221172	6	0.242946
			6	0.223248	8	0.188147
			9	0.175008	9	0.358145
				BIAS CORR	0.699884	
				VAR CCEFF	0.013305	0.018385
				EFFICIENCY	97.82	98.83

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE	
10	9	3	1	0.424731	4	0.244448	
			4	0.305497	7	0.288311	
			8	0.269772	9	0.414498	
			BIAS CORR		0.676574		
			VAR CCEFF		0.013746		0.018577
			EFFICIENCY		94.69		97.81
10	9	2	1	0.519146	6	0.431915	
			6	0.480854	9	0.472885	
			BIAS CORR		0.623657		
			VAR CCEFF		0.014962		0.019207
			EFFICIENCY		86.99		94.60
10	9	1	3	1.000000	9	0.782239	
			BIAS CORR		0.620866		
			VAR CCEFF		0.021855		0.023316
			EFFICIENCY		59.56		77.93
10	8	8	1	0.341457	1	0.028247	
			2	0.106180	2	0.046778	
			3	0.087291	3	0.062185	
			4	0.078693	4	0.079400	
			5	0.072974	5	0.093223	
			6	0.070345	6	0.111759	
			7	0.068145	7	0.129328	
			8	0.174914	8	0.494053	
			BIAS CORR		0.677145		
			VAR CCEFF		0.013769		0.020476
			EFFICIENCY		100.00		100.00
EFF(M/N)		96.75		79.80			
10	8	7	1	0.342041	2	0.065729	
			2	0.106238	3	0.062159	
			3	0.087621	4	0.075426	
			4	0.078559	5	0.093231	
			5	0.109628	6	0.111833	
			7	0.100847	7	0.129368	
			8	0.175065	8	0.494304	
			BIAS CORR		0.676556		
			VAR CCEFF		0.013291		0.020487

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				99.83		99.95
				EFFICIENCY		
10	8	6	1	0.342607	2	0.092377
			2	0.106693	4	0.112202
			3	0.087177	5	0.093154
			4	0.115224	6	0.112126
			6	0.143476	7	0.129263
			8	0.204823	8	0.494857
				BIAS CORR		0.020506
				VAR CCEFF		99.85
				EFFICIENCY		
10	8	5	1	0.343536	2	0.092488
			2	0.144409	4	0.159301
			4	0.162801	6	0.157880
			6	0.143864	7	0.129173
			8	0.205391	8	0.495844
				BIAS CORR		0.020543
				VAR CCEFF		99.68
				EFFICIENCY		
10	8	4	1	0.385359	2	0.150594
			3	0.188771	5	0.192562
			5	0.190101	7	0.182350
			8	0.235769	8	0.496782
				BIAS CORR		0.020610
				VAR CCEFF		99.35
				EFFICIENCY		
10	8	3	1	0.424731	2	0.192609
			4	0.305497	6	0.272537
			8	0.269772	8	0.556494
				BIAS CORR		0.020747
				VAR CCEFF		98.70
				EFFICIENCY		
10	8	2	1	0.519146	5	0.368459
			6	0.480854	8	0.615944
				BIAS CORR		0.021132
				VAR CCEFF		96.89
				EFFICIENCY		
				98.68		



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE			
10	8	1	3	1.000000	8	0.882100			
			BIAS CORR	0.620866					
			VAR CCEFF	0.021855		0.023541			
			EFFICIENCY	60.71		86.98			
10	7	7	1	0.350078	1	0.032381			
			2	0.108582	2	0.052722			
			3	0.089965	3	0.072739			
			4	0.079640	4	0.087695			
			5	0.075327	5	0.108428			
			6	0.071267	6	0.125360			
			7	0.225141	7	0.638338			
			BIAS CORR	0.648048					
			VAR CCEFF	0.013603		0.023461			
			EFFICIENCY	100.00		100.00			
			EFF(M/N)	94.37		69.65			
10	7	6	1	0.350678	2	0.074452			
			2	0.108643	3	0.072715			
			3	0.090301	4	0.087729			
			4	0.075505	5	0.108446			
			5	0.112464	6	0.125453			
			7	0.258410	7	0.638681			
			BIAS CORR	0.647428					
			VAR CCEFF	0.013626		0.023475			
			EFFICIENCY	99.83		99.94			
			10	7	5	1	0.351376	2	0.105643
						2	0.108778	4	0.127260
3	0.127557	5				0.108376			
5	0.153370	6				0.125813			
7	0.258919	7				0.639225			
BIAS CORR	0.647448								
VAR CCEFF	0.013654					0.023502			
EFFICIENCY	99.63					99.83			
10	7	4				1	0.392887	2	0.105802
						3	0.192481	4	0.180942
						5	0.154177	6	0.175093
			7	0.260455	7	0.640305			

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
				0.649682		0.023551
				0.013737		99.62
				99.03		
10	7	3	1	0.398320	3	0.171951
			3	0.267014	5	0.219323
			7	0.334466	7	0.701016
				BIAS CORR		
				0.647034		
				VAR CCEFF		0.023630
				0.013941		99.29
				EFFICIENCY		
				97.58		
10	7	2	1	0.519146	4	0.311446
			6	0.480854	7	0.761279
				BIAS CORR		
				0.623657		
				VAR CCEFF		0.023902
				0.014962		98.16
				EFFICIENCY		
				90.92		
10	7	1	3	1.000000	7	0.982317
				BIAS CORR		
				0.620866		
				VAR CCEFF		0.075454
				0.021855		92.17
				EFFICIENCY		
				62.25		
10	6	6	1	0.361264	1	0.037497
			2	0.112330	2	0.062497
			3	0.091874	3	0.081959
			4	0.082882	4	0.104831
			5	0.076619	5	0.123282
			6	0.275030	6	0.794646
				BIAS CORR		
				0.615855		
				VAR CCEFF		0.027471
				0.014043		100.00
				EFFICIENCY		100.00
				100.00		59.49
				EFF(M/N)		
				91.41		
10	6	5	1	0.361866	2	0.087669
			2	0.112579	3	0.081937
			3	0.091868	4	0.104881
			4	0.120869	5	0.123312
			6	0.312818	6	0.795170
				BIAS CORR		
				0.615491		
				VAR CCEFF		0.027489
				0.014068		99.93
				EFFICIENCY		
				99.82		

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 2.50

N	M	L	i	LOCATION	i	SCALE			
10	6	4	1	0.362901	2	0.122832			
			2	0.152346	4	0.149446			
			4	0.171029	5	0.123248			
			6	0.313723	6	0.796218			
			BIAS CORR	0.615981					
			VAR CCEFF	0.014111		0.027523			
			EFFICIENCY	99.52		99.81			
10	6	3	1	0.407289	2	0.123046			
			3	0.235783	4	0.210551			
			6	0.356928	6	0.858112			
			BIAS CORR	0.617066					
			VAR CCEFF	0.014244		0.027587			
			EFFICIENCY	98.59		99.58			
			10	6	2	1	0.519146	2	0.254761
6	0.480854	6				0.919404			
BIAS CORR	0.623657								
VAR CCEFF	0.014962					0.027787			
EFFICIENCY	93.86					98.86			
10	6	1				3	1.000000	6	1.092152
						BIAS CORR	0.620866		
			VAR CCEFF	0.021855		0.028808			
			EFFICIENCY	64.26		95.36			
			10	5	5	1	0.376316	1	0.045148
						2	0.116437	2	0.073440
						3	0.096009	2	0.099865
4	0.085181	4				0.122569			
5	0.326057	5				0.972511			
BIAS CORR	0.579916								
VAR CCEFF	0.014629					0.033136			
EFFICIENCY	100.00		100.00						
EFF(M/N)	87.75		49.32						
10	5	4	1	0.377119	2	0.103760			
			2	0.116598	3	0.095853			
			3	0.135943	4	0.122643			
			5	0.370340	5	0.972221			

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR CCEFF		0.033162
				EFFICIENCY		99.92
10	5	3	1	0.421797	2	0.146650
			3	0.205617	4	0.176996
			5	0.372587	5	0.974508
				BIAS CORR		
				VAR CCEFF		0.033213
				EFFICIENCY		99.77
10	5	2	1	0.499586	3	0.238003
			5	0.500414	5	1.040705
				BIAS CORR		
				VAR CCEFF		0.033328
				EFFICIENCY		99.42
10	5	1	3	1.000000	5	1.221152
				BIAS CORR		
				VAR CCEFF		0.034030
				EFFICIENCY		97.37
10	4	4	1	0.396876	1	0.055847
			2	0.122693	2	0.091822
			3	0.100330	3	0.122250
			4	0.380100	4	1.187527
				BIAS CORR		
				VAR CCEFF		0.041742
				EFFICIENCY		100.00
				EFF(M/N)		39.15
10	4	3	1	0.398117	2	0.129351
			2	0.166167	3	0.122255
			4	0.435715	4	1.188581
				BIAS CORR		
				VAR CCEFF		0.041782
				EFFICIENCY		99.90
10	4	2	1	0.485912	2	0.181320
			4	0.514088	4	1.256875
				BIAS CORR		

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY	0.015753 98.01	0.041858 99.72
10	4	1	3	1.000000 BIAS CORR VAR CCEFF EFFICIENCY	4 0.620866 0.021855 70.65	1.384100 0.042318 98.64
10	3	3	1	0.427156	1	0.073695
			2	0.131207	2	0.120132
			3	0.441637	3	1.470960
			BIAS CORR	0.491375		
			VAR CCEFF	0.016635		0.056358
			EFFICIENCY	100.00		100.00
			EFF(M/N)	77.17		28.99
10	3	2	1	0.477811	2	0.169702
			3	0.522189	3	1.472546
			BIAS CORR	0.492985		
			VAR CCEFF	0.016756		0.056429
			EFFICIENCY	99.28		99.87
10	3	1	3	1.000000 BIAS CORR VAR CCEFF EFFICIENCY	3 0.620866 0.021855 76.12	1.610652 0.056695 99.41
10	2	2	1	0.476861	1	0.107629
			2	0.523139	2	1.903991
			BIAS CORR	0.432767		
			VAR CCEFF	0.018617		0.086534
			EFFICIENCY	100.00		100.00
			EFF(M/N)	68.95		18.88
10	2	1	2	1.000000 BIAS CORR VAR CCEFF EFFICIENCY	2 0.505272 0.022131 84.12	1.979133 0.086685 99.83
10	1	1	1	1.000000 BIAS CORR	1 0.353226	2.831048

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				0.022846		0.183105
				100.00		100.00
				56.19		8.92
				VAR CCEFF		
				EFFICIENCY		
				EFF(M/N)		

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
2	2	2	1	0.567274	1	0.277114
			2	0.432726	2	0.746001
			BIAS CORR	0.868193		
			VAR CCEFF	0.052327		0.061665
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
2	2	1	1	1.000000	2	0.928332
			BIAS CORR	0.708758		
			VAR CCEFF	0.066356		0.065872
			EFFICIENCY	78.86		93.61
2	1	1	1	1.000000	1	1.410910
			BIAS CORR	0.708758		
			VAR CCEFF	0.066356		0.132093
			EFFICIENCY	100.00		100.00
			EFF(M/N)	78.86		46.68
3	3	3	1	0.435261	1	0.137929
			2	0.262898	2	0.283129
			3	0.301842	3	0.565951
			BIAS CORR	0.856643		
			VAR CCEFF	0.034654		0.039928
			EFFICIENCY	100.00		100.00
3	3	2	1	0.578000	2	0.368206
			3	0.422000	3	0.574361
			BIAS CORR	0.852381		
			VAR CCEFF	0.036546		0.040598
			EFFICIENCY	94.82		98.35
3	3	1	2	1.000000	3	0.853373
			BIAS CORR	0.887960		
			VAR CCEFF	0.049619		0.045868
			EFFICIENCY	69.84		87.05
3	2	2	1	0.488387	1	0.203759
			2	0.511613	2	0.984072
			BIAS CORR	0.756680		
			VAR CCEFF	0.039149		0.061458

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				EFF(M/N)		64.97
3	2	1	2	1.000000	2	1.126177
				BIAS CORR		
				0.887960		
				VAR CCEFF		0.062931
				0.049619		
				EFFICIENCY		97.66
				78.90		
3	1	1	1	1.000000	1	1.615098
				BIAS CORR		
				0.619157		
				VAR CCEFF		0.132093
				0.050639		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		30.23
				68.43		
4	4	4	1	0.367562	1	0.084701
			2	0.197345	2	0.164654
			3	0.202675	3	0.258924
			4	0.232418	4	0.459605
				BIAS CORR		
				0.849176		
				VAR CCEFF		0.029465
				0.025851		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		100.00
				100.00		
4	4	3	1	0.455464	2	0.219145
			3	0.307020	3	0.260093
			4	0.237516	4	0.462443
				BIAS CORR		
				0.852186		
				VAR CCEFF		0.029659
				0.026515		
				EFFICIENCY		99.35
				97.49		
4	4	2	1	0.491755	2	0.415925
			3	0.508245	4	0.477939
				BIAS CORR		
				0.778228		
				VAR CCEFF		0.030752
				0.027727		
				EFFICIENCY		95.81
				89.99		
4	4	1	2	1.000000	4	0.810730
				BIAS CORR		
				0.789004		
				VAR CCEFF		0.036235
				0.038687		
				EFFICIENCY		81.32
				66.82		



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE			
4	3	3	1	0.396881	1	0.112520			
			2	0.211127	2	0.216511			
			3	0.391991	3	0.776028			
			BIAS CORR	0.776704					
			VAR CCEFF	0.027966		0.039788			
			EFFICIENCY	100.00		100.00			
			EFF(M/N)	92.44		74.05			
4	3	2	1	0.491755	2	0.289473			
			3	0.508245	3	0.781834			
			BIAS CORR	0.778228					
			VAR CCEFF	0.028727		0.040131			
			EFFICIENCY	97.35		99.14			
			4	3	1	2	1.000000	3	1.013257
						BIAS CORR	0.789004		
VAR CCEFF	0.038687					0.042060			
EFFICIENCY	72.29					94.60			
4	2	2				1	0.451980	1	0.165532
						2	0.548020	2	1.149400
						BIAS CORR	0.686649		
			VAR CCEFF	0.032063		0.061400			
			EFFICIENCY	100.00		100.00			
			EFF(M/N)	80.63		47.99			
			4	2	1	2	1.000000	2	1.267421
BIAS CORR	0.789004								
VAR CCEFF	0.038687					0.062145			
EFFICIENCY	82.88					98.80			
4	1	1				1	1.000000	1	1.777646
						BIAS CORR	0.562542		
						VAR CCEFF	0.041801		0.132093
			EFFICIENCY	100.00		100.00			
			EFF(M/N)	61.84		22.31			
			5	5	5	1	0.325365	1	0.058194
						2	0.161079	2	0.109920
3	0.158567	3				0.164838			
4	0.165649	4				0.234078			

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			5	0.189341	5	0.388947
			BIAS CORR	0.843712		
			VAR CCEFF	0.020589		0.023329
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
5	5	4	1	0.329397	2	0.148537
			2	0.239305	3	0.165085
			4	0.239854	4	0.234709
			5	0.191443	5	0.390162
			BIAS CORR	0.842708		
			VAR CCEFF	0.020869		0.023405
			EFFICIENCY	98.66		99.68
5	5	3	1	0.397789	2	0.229308
			3	0.351733	4	0.312616
			5	0.250478	5	0.394727
			BIAS CORR	0.839843		
			VAR CCEFF	0.021322		0.023708
			EFFICIENCY	96.56		98.40
5	5	2	1	0.496410	2	0.423925
			4	0.503590	5	0.488176
			BIAS CORR	0.789863		
			VAR CCEFF	0.023221		0.024555
			EFFICIENCY	88.67		94.85
5	5	1	3	1.000000	5	0.782220
			BIAS CORR	0.886752		
			VAR CCEFF	0.032204		0.030531
			EFFICIENCY	63.93		76.41
5	4	4	1	0.344148	1	0.072678
			2	0.169821	2	0.136738
			3	0.166141	3	0.203387
			4	0.319890	4	0.647927
			BIAS CORR	0.787035		
			VAR CCEFF	0.021793		0.029372
			EFFICIENCY	100.00		100.00
			EFF(M/N)	94.48		79.43

TABLE I

Coefficients for Estimation of  
Location and Scale Parameters of a  
Weibull Population from L-Order Statistics  
(Sample Sizes 2 to 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE	
5	4	3	1	0.348595	2	0.185109	
			2	0.251928	3	0.203847	
			4	0.399477	4	0.650331	
			BIAS CORR		0.785323		
			VAR CCEFF		0.022101		0.029490
			EFFICIENCY		98.61		99.60
5	4	2	1	0.496410	2	0.285649	
			4	0.503590	4	0.752816	
			BIAS CORR		0.789863		
			VAR CCEFF		0.023221		0.029954
			EFFICIENCY		93.85		98.06
5	4	1	3	1.000000	4	0.949044	
			BIAS CORR		0.886752		
			VAR CCEFF		0.032204		0.032119
			EFFICIENCY		67.67		91.45
5	3	3	1	0.375602	1	0.096302	
			2	0.183575	2	0.179581	
			3	0.440823	3	0.924409	
			BIAS CORR		0.719925		
			VAR CCEFF		0.023836		0.039741
			EFFICIENCY		100.00		100.00
			EFF(M/N)		86.38		53.70
5	3	2	1	0.451060	2	0.242964	
			3	0.548940	2	0.928568	
			BIAS CORR		0.722325		
			VAR CCEFF		0.024266		0.039949
			EFFICIENCY		98.23		99.48
5	3	1	3	1.000000	3	1.127711	
			BIAS CORR		0.886752		
			VAR CCEFF		0.032204		0.040955
			EFFICIENCY		74.02		97.04
5	2	2	1	0.430915	1	0.141356	
			2	0.569085	2	1.279541	
			BIAS CORR		0.636957		
			VAR CCEFF		0.027513		0.061376

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				EFF(M/N)		38.01
5	2	1	2	1.000000	2	1.381523
				BIAS CORR		
				0.723839		
				VAR CCEFF		0.061825
				0.032393		
				EFFICIENCY		99.27
				84.94		
5	1	1	1	1.000000	1	1.914911
				BIAS CORR		
				0.522218		
				VAR CCEFF		0.132093
				0.036023		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		17.66
				57.16		
6	6	6	1	0.296045	1	0.042884
			2	0.137995	2	0.079549
			3	0.131930	3	0.116368
			4	0.133664	4	0.158124
			5	0.140412	5	0.212560
			6	0.159955	6	0.338339
				BIAS CORR		
				0.839438		
				VAR CCEFF		0.019301
				0.017094		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		100.00
				100.00		
6	6	5	1	0.298271	2	0.108625
			2	0.198693	3	0.116409
			4	0.200592	4	0.158333
			5	0.141289	5	0.212908
			6	0.161156	6	0.338946
				BIAS CORR		
				0.839920		
				VAR CCEFF		0.019337
				0.017236		
				EFFICIENCY		99.82
				99.18		
6	6	4	1	0.352012	2	0.161524
			3	0.284226	4	0.217162
			5	0.200915	5	0.213867
			6	0.162848	6	0.340764
				BIAS CORR		
				0.841383		
				VAR CCEFF		0.019447
				0.017444		
				EFFICIENCY		99.25
				97.99		

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE	
6	6	3	1	0.410901	2	0.283420	
			4	0.375435	3	0.285172	
			6	0.213664	6	0.345046	
			BIAS CORR	0.840848			
			VAR CCEFF	0.018045		0.019711	
			EFFICIENCY	94.73		97.92	
6	6	2	1	0.501368	4	0.457119	
			5	0.498632	6	0.429230	
			BIAS CORR	0.796559			
			VAR CCEFF	0.019793		0.020569	
			EFFICIENCY	86.36		93.84	
6	6	1	3	1.000000	5	0.906317	
				BIAS CORR	0.819161		
				VAR CCEFF	0.027162		0.026313
				EFFICIENCY	62.93		73.35
6	5	5	1	0.309251	1	0.051460	
			2	0.143937	2	0.095256	
			3	0.137309	3	0.138926	
			4	0.138380	4	0.187450	
			5	0.271124	5	0.559748	
			BIAS CORR	0.792990			
			VAR CCEFF	0.017862		0.023265	
			EFFICIENCY	100.00		100.00	
			EFF(M/N)	95.70		82.96	
6	5	4	1	0.311671	2	0.130192	
			2	0.207175	3	0.139023	
			4	0.208095	4	0.187764	
			5	0.273059	5	0.560914	
				BIAS CORR	0.793128		
			VAR CCEFF	0.018015		0.023316	
	EFFICIENCY	99.15		99.78			
6	5	3	1	0.367898	2	0.193572	
			3	0.295823	4	0.258283	
			5	0.336279	5	0.564291	
				BIAS CORR	0.794160		

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY		0.023473 99.11
6	5	2	1	0.501368	3	0.335304
			5	0.498632	5	0.654411
				BIAS CORR		
				VAR CCEFF		0.023849
				EFFICIENCY		97.55
6	5	1	3	1.000000	5	0.906317
				BIAS CORR		
				VAR CCEFF		0.026313
				EFFICIENCY		88.42
6	4	4	1	0.329837	1	0.064176
			2	0.152944	2	0.118385
			3	0.145018	3	0.171378
			4	0.372201	4	0.783813
				BIAS CORR		
				VAR CCEFF		0.029337
				EFFICIENCY		100.00
				EFF(M/N)		65.79
6	4	3	1	0.332549	2	0.162036
			2	0.219829	3	0.171584
			4	0.447622	4	0.785755
				BIAS CORR		
				VAR CCEFF		0.029416
				EFFICIENCY		99.73
6	4	2	1	0.452586	2	0.240608
			4	0.547414	4	0.877364
				BIAS CORR		
				VAR CCEFF		0.029655
				EFFICIENCY		98.92
6	4	1	3	1.000000	4	1.047841
				BIAS CORR		
				VAR CCEFF		0.030864
				EFFICIENCY		95.05

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE	
6	3	3	1	0.361963	1	0.084899	
			2	0.166307	2	0.155381	
			3	0.471730	3	1.041569	
				BIAS CORR	0.676754		
				VAR CCEFF	0.020970		0.039719
				EFFICIENCY	100.00		100.00
				EFF(M/N)	81.52		48.59
6	3	2	1	0.427890	2	0.213295	
			3	0.573110	3	1.044696	
				BIAS CORR	0.679254		
			VAR CCEFF	0.021255		0.039858	
			EFFICIENCY	98.66		99.65	
6	3	1	3	1.000000	3	1.220761	
				BIAS CORR	0.819161		
				VAR CCEFF	0.027162		0.040478
				EFFICIENCY	77.20		98.13
6	2	2	1	0.417162	1	0.124445	
			2	0.582838	2	1.388458	
				BIAS CORR	0.599106		
			VAR CCEFF	0.024300		0.061363	
			EFFICIENCY	100.00		100.00	
			EFF(M/N)	70.35		31.45	
6	2	1	2	1.000000	2	1.478901	
				BIAS CORR	0.676178		
				VAR CCEFF	0.028193		0.061663
				EFFICIENCY	86.19		99.51
6	1	1	1	1.000000	1	2.034896	
				BIAS CORR	0.491426		
				VAR CCEFF	0.031900		0.132093
				EFFICIENCY	100.00		100.00
				EFF(M/N)	51.59		14.61
7	7	7	1	0.274217	1	0.033155	
			2	0.121972	2	0.060732	
			3	0.114029	3	0.087478	
			4	0.113179	4	0.116159	

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			5	0.115965	5	0.149751
			6	0.122038	6	0.194443
			7	0.138601	7	0.300165
				BIAS CORR		0.835950
				VAR CCEFF		0.014606
				EFFICIENCY		100.00
				EFF(M/N)		100.00
7	7	6	1	0.275611	2	0.083559
			2	0.122453	3	0.087464
			3	0.170020	4	0.116240
			5	0.170160	5	0.149888
			6	0.122498	6	0.194651
			7	0.139259	7	0.300501
				BIAS CORR		0.835551
				VAR CCEFF		0.014683
				EFFICIENCY		99.47
7	7	5	1	0.277372	2	0.121717
			2	0.173264	4	0.162278
			4	0.237775	5	0.150186
			6	0.171559	6	0.195174
			7	0.140029	7	0.301367
				BIAS CORR		0.834855
				VAR CCEFF		0.014784
				EFFICIENCY		98.79
7	7	4	1	0.324520	3	0.209660
			3	0.245720	5	0.206366
			5	0.250469	6	0.196281
			7	0.174291	7	0.303317
				BIAS CORR		0.832828
				VAR CCEFF		0.014979
				EFFICIENCY		97.53
7	7	3	1	0.376887	4	0.322371
			4	0.403665	6	0.262794
			7	0.219449	7	0.308561
				BIAS CORR		0.828151
				VAR CCEFF		0.015583
				EFFICIENCY		93.73



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE	
7	7	2	1	0.455039	5	0.479202	
			5	0.544961	7	0.386174	
			BIAS CORR		0.760335		
			VAR CCEFF		0.017128		0.017788
			EFFICIENCY		85.27		92.51
7	7	1	3	1.000000	6	0.875240	
			BIAS CORR		0.768857		
			VAR CCEFF		0.023780		0.022501
			EFFICIENCY		61.42		73.14
7	6	6	1	0.284091	1	0.038681	
			2	0.126283	2	0.070812	
			3	0.117906	3	0.101747	
			4	0.116839	4	0.134848	
			5	0.119136	5	0.172708	
			6	0.235746	6	0.494779	
			BIAS CORR		0.796657		
			VAR CCEFF		0.015134		0.019255
			EFFICIENCY		100.00		100.00
			EFF(M/N)		96.51		85.47
7	6	5	1	0.285578	2	0.097461	
			2	0.126802	3	0.101749	
			3	0.175735	4	0.134967	
			5	0.175106	5	0.172898	
			6	0.236779	6	0.495415	
			BIAS CORR		0.796052		
			VAR CCEFF		0.015217		0.019280
			EFFICIENCY		99.46		99.87
			7	6	4	1	0.287448
2	0.179378	4				0.188612	
4	0.245325	5				0.173322	
6	0.287850	6				0.497033	
BIAS CORR		0.795122					
EFFICIENCY		98.76					99.92
7	6	3	1	0.338868	3	0.244352	

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			3	0.319331	5	0.238834
			6	0.341801	6	0.500636
				BIAS CORR		
				VAR CCEFF		0.019500
				EFFICIENCY		98.74
7	6	2	1	0.455039	4	0.375723
			5	0.544961	6	0.583804
				BIAS CORR		
				VAR COEFF		0.019913
				EFFICIENCY		96.70
7	6	1	3	1.000000	6	0.875240
				BIAS CORR		
				VAR CCEFF		0.022501
				EFFICIENCY		85.57
7	5	5	1	0.298774	1	0.046407
			2	0.132529	2	0.084660
			3	0.123522	3	0.121532
			4	0.121716	4	0.159834
			5	0.323459	5	0.685421
				BIAS CORR		
				VAR CCEFF		0.023238
				EFFICIENCY		100.00
				EFF (M/N)		70.82
7	5	4	1	0.300392	2	0.116683
			2	0.133097	3	0.121565
			3	0.183802	4	0.160015
			5	0.382709	5	0.688440
				BIAS CORR		
				VAR CCEFF		0.023275
				EFFICIENCY		94.84
7	5	3	1	0.350111	2	0.169887
			3	0.263808	4	0.224247
			5	0.306081	5	0.688457
				BIAS CORR		
				VAR CCEFF		0.023371
				EFFICIENCY		99.43

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
7	5	2	1	0.455039	3	0.292092
			5	0.544961	5	0.771240
			BIAS CORR	0.760335		
			VAR CCEFF	0.017128		0.023588
			EFFICIENCY	92.96		98.52
7	5	1	3	1.000000	5	0.994605
			BIAS CORR	0.768857		
			VAR CCEFF	0.023780		0.024984
			EFFICIENCY	66.96		93.01
7	4	4	1	0.320062	1	0.057779
			2	0.141473	2	0.105229
			3	0.131047	3	0.149831
			4	0.407419	4	0.892064
			BIAS CORR	0.701650		
			VAR CCEFF	0.017073		0.029319
			EFFICIENCY	100.00		100.00
EFF (M/N)	85.55		56.13			
7	4	3	1	0.321982	2	0.145126
			2	0.199509	3	0.149926
			4	0.478509	4	0.893744
			BIAS CORR	0.701883		
			VAR CCEFF	0.017185		0.029376
EFFICIENCY	99.35		99.81			
7	4	2	1	0.426205	2	0.210952
			4	0.573795	4	0.476243
			BIAS CORR	0.707474		
			VAR CCEFF	0.017660		0.029522
EFFICIENCY	96.68		99.31			
7	4	1	3	1.000000	4	1.128371
			BIAS CORR	0.768857		
			VAR CCEFF	0.023780		0.030300
			EFFICIENCY	71.80		96.76
7	3	3	1	0.352455	1	0.076369
			2	0.154433	2	0.138029

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			3	0.493112	3	1.139529
			BIAS CORR	0.642362		
			VAR CCEFF	0.018839		0.039707
			EFFICIENCY	100.00		100.00
			EFF(M/N)	77.51		41.45
7	3	2	1	0.410759	2	0.190870
			3	0.589241	3	1.141973
			BIAS CORR	0.644789		
			VAR CCEFF	0.019048		0.039807
			EFFICIENCY	98.90		99.75
7	3	1	3	1.000000	3	1.300632
			BIAS CORR	0.768857		
			VAR CCEFF	0.023780		0.040227
			EFFICIENCY	79.22		98.71
7	2	2	1	0.407473	1	0.111832
			2	0.592527	2	1.483002
			BIAS CORR	0.568901		
			VAR CCEFF	0.021887		0.061356
			EFFICIENCY	100.00		100.00
			EFF(M/N)	66.73		26.82
7	2	1	2	1.000000	2	1.564686
			BIAS CORR	0.639106		
			VAR CCEFF	0.025149		0.061571
			EFFICIENCY	87.03		99.65
7	1	1	1	1.000000	1	2.142189
			BIAS CORR	0.466912		
			VAR CCEFF	0.028785		0.132093
			EFFICIENCY	100.00		100.00
			EFF(M/N)	50.74		12.46
8	8	8	1	0.257170	1	0.026543
			2	0.110171	2	0.049172
			3	0.101151	3	0.068641
			4	0.098835	4	0.089863
			5	0.094661	5	0.113331
			6	0.102606	6	0.141365

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			7	0.108040	7	0.179177
			8	0.122365	8	0.270257
			BIAS CORR	0.833018		
			VAR COEFF	0.012745		0.014341
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
8	8	7	1	0.258073	2	0.066658
			2	0.110451	3	0.068614
			3	0.148201	4	0.089898
			5	0.149279	5	0.113386
			6	0.102810	6	0.141466
			7	0.108412	7	0.179304
			8	0.122773	8	0.270460
			BIAS CORR	0.833109		
			VAR CCEFF	0.012791		0.014352
			EFFICIENCY	99.64		99.92
8	8	6	1	0.259139	2	0.095829
			2	0.154165	4	0.126991
			4	0.205497	5	0.113459
			6	0.149193	6	0.141722
			7	0.108701	7	0.179572
			8	0.123306	8	0.270934
			BIAS CORR	0.833348		
			VAR CCEFF	0.012849		0.014377
			EFFICIENCY	99.19		99.75
8	8	5	1	0.299560	2	0.163604
			3	0.216271	5	0.158775
			5	0.208668	6	0.142031
			7	0.151400	7	0.180304
			8	0.124101	8	0.271975
			BIAS CORR	0.834433		
			VAR CCEFF	0.012949		0.014435
			EFFICIENCY	98.42		99.35
8	8	4	1	0.304034	2	0.164740
			3	0.268305	5	0.239583
			6	0.269132	7	0.239211
			8	0.158528	8	0.274025

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR CCEFF		0.014556
				EFFICIENCY		98.52
8	8	3	1	0.351141	4	0.327640
			4	0.347310	7	0.292862
			7	0.301549	8	0.280010
				BIAS CORR		
				VAR CCEFF		0.014892
				EFFICIENCY		96.30
8	8	2	1	0.457988	5	0.489658
			6	0.542112	8	0.396059
				BIAS CORR		
				VAR CCEFF		0.015709
				EFFICIENCY		91.29
8	8	1	4	1.000000	7	0.851300
				BIAS CORR		
				VAR CCEFF		0.019802
				EFFICIENCY		72.42
8	7	7	1	0.264892	1	0.030343
			2	0.113420	2	0.054994
			3	0.104128	3	0.078432
			4	0.101554	4	0.102271
			5	0.102328	5	0.128954
			6	0.104847	6	0.159792
			7	0.208830	7	0.444641
				BIAS CORR		
				VAR CCEFF		0.016421
				EFFICIENCY		100.00
				EFF(M/N)		87.33
8	7	6	1	0.265847	2	0.076134
			2	0.113718	3	0.078409
			3	0.152487	4	0.102322
			5	0.153725	5	0.129031
			6	0.105064	6	0.159922
			7	0.209559	7	0.445013
				BIAS CORR		
						0.798982

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY	0.013177 99.63	0.016436 99.91
8	7	5	1	0.266977	2	0.109496
			2	0.158743	4	0.144746
			4	0.211263	5	0.129146
			6	0.152709	6	0.160252
			7	0.210307	7	0.445852
				BIAS CORR	0.799075	
				VAR CCEFF	0.013239	0.016469
				EFFICIENCY	99.16	99.71
8	7	4	1	0.308649	3	0.186882
			3	0.222634	5	0.180834
			5	0.214086	6	0.160685
			7	0.254631	7	0.447853
				BIAS CORR	0.799981	
				VAR CCEFF	0.013344	0.016544
				EFFICIENCY	98.39	99.26
8	7	3	1	0.351141	3	0.188367
			4	0.347310	5	0.272535
			7	0.301549	7	0.516846
				BIAS CORR	0.800979	
				VAR CCEFF	0.013696	0.016699
				EFFICIENCY	95.85	98.34
8	7	2	1	0.457888	4	0.374705
			6	0.542112	7	0.584971
				BIAS CORR	0.771574	
				VAR CCEFF	0.015167	0.017136
				EFFICIENCY	86.56	95.83
8	7	1	4	1.000000	7	0.851300
				BIAS CORR	0.834922	
				VAR CCEFF	0.020909	0.019802
				EFFICIENCY	62.79	82.93
8	6	6	1	0.275959	1	0.035370
			2	0.118114	2	0.064235
			3	0.109092	3	0.090876

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			4	0.105527	4	0.119080
			5	0.105608	5	0.148597
			6	0.286698	6	0.611839
				BIAS CORR		
				VAR CCEFF		0.019234
				EFFICIENCY		100.00
				EFF(M/N)		74.56
8	6	5	1	0.276991	2	0.088890
			2	0.118441	3	0.090861
			3	0.158364	4	0.119156
			5	0.158620	5	0.148705
			6	0.287584	6	0.612433
				BIAS CORR		
				VAR CCEFF		0.019254
				EFFICIENCY		99.90
8	6	4	1	0.278199	2	0.127590
			2	0.165207	4	0.168369
			4	0.219152	5	0.148821
			6	0.337442	6	0.613803
				BIAS CORR		
				VAR CCEFF		0.019299
				EFFICIENCY		99.67
8	6	3	1	0.323825	3	0.217588
			3	0.284784	5	0.209242
			6	0.391391	6	0.616695
				BIAS CORR		
				VAR CCEFF		0.019401
				EFFICIENCY		99.14
8	6	2	1	0.457888	4	0.328870
			6	0.542112	6	0.693417
				BIAS CORR		
				VAR CCEFF		0.019656
				EFFICIENCY		97.86
8	6	1	4	1.000000	6	0.955824
				BIAS CORR		
				VAR CCEFF		0.021137



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	65.43	91.00
8	5	5	1	0.291311	1	0.042455
			2	0.124301	2	0.076515
			3	0.113828	3	0.108951
			4	0.110225	4	0.140821
			5	0.360334	5	0.786541
				BIAS CORR	0.718639	
				VAR CCEFF	0.014446	0.023224
				EFFICIENCY	100.00	100.00
				EFF(M/N)	88.22	61.75
8	5	4	1	0.292439	2	0.106129
			2	0.124663	3	0.108954
			3	0.166364	4	0.140938
			5	0.416535	5	0.787415
				BIAS CORR	0.718335	
				VAR CCEFF	0.014504	0.023252
				EFFICIENCY	99.60	99.88
8	5	3	1	0.337951	2	0.152602
			3	0.242368	4	0.200035
			5	0.419681	5	0.789339
				BIAS CORR	0.721101	
				VAR CCEFF	0.014624	0.023317
				EFFICIENCY	98.79	99.60
8	5	2	1	0.426913	3	0.259974
			5	0.573087	5	0.864408
				BIAS CORR	0.727907	
				VAR CCEFF	0.015296	0.023461
				EFFICIENCY	94.45	98.99
8	5	1	4	1.000000	5	1.066615
				BIAS CORR	0.834922	
				VAR CCEFF	0.020909	0.024370
				EFFICIENCY	69.09	95.30
8	4	4	1	0.312931	1	0.052755
			2	0.133159	2	0.095268
			3	0.121060	3	0.134057

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			4	0.432850	4	0.982923
			BIAS CORR	0.670499		
			VAR CCEFF	0.015535		0.029308
			EFFICIENCY	100.00		100.00
			EFF(M/N)	82.04		48.93
8	4	3	1	0.314413	2	0.132102
			2	0.185365	2	0.134096
			4	0.500222	4	0.984231
			BIAS CORR	0.670929		
			VAR CCEFF	0.015615		0.029351
			EFFICIENCY	99.49		99.85
8	4	2	1	0.408377	2	0.189409
			4	0.591623	4	1.059544
			BIAS CORR	0.676295		
			VAR CCEFF	0.015973		0.029449
			EFFICIENCY	97.26		99.52
8	4	1	4	1.000000	4	1.197717
			BIAS CORR	0.834922		
			VAR CCEFF	0.020909		0.029995
			EFFICIENCY	74.30		97.71
8	3	3	1	0.345442	1	0.069707
			2	0.145754	2	0.124851
			3	0.508804	3	1.224372
			BIAS CORR	0.614039		
			VAR CCEFF	0.017180		0.039699
			EFFICIENCY	100.00		100.00
			EFF(M/N)	74.18		36.12
8	3	2	1	0.399190	2	0.173593
			3	0.600810	3	1.226341
			BIAS CORR	0.616355		
			VAR CCEFF	0.017343		0.039774
			EFFICIENCY	99.06		99.81
8	3	1	3	1.000000	3	1.371333
			BIAS CORR	0.729719		
			VAR CCEFF	0.021312		0.040078

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		99.05
				80.61		
8	2	2	1	0.400276	1	0.101998
			2	0.549724	2	1.567079
				BIAS CORR		
				0.543992		
				VAR COEFF		0.061351
				0.019996		
				EFFICIENCY		100.00
				100.00		
				EFF (M/N)		23.37
				63.74		
4	2	1	2	1.000000	2	1.641850
				BIAS CORR		
				0.609069		
				VAR COEFF		0.061512
				0.027819		
				EFFICIENCY		99.74
				87.63		
8	1	1	1	1.000000	1	2.239693
				BIAS CORR		
				0.446490		
				VAR COEFF		0.132093
				0.026333		
				EFFICIENCY		100.00
				100.00		
				EFF (M/N)		10.26
				48.40		
9	9	9	1	0.243387	1	0.021821
			2	0.101096	2	0.039319
			3	0.091436	3	0.055593
			4	0.088199	4	0.072046
			5	0.087901	5	0.089663
			6	0.089237	6	0.105487
			7	0.092154	7	0.133501
			8	0.096995	8	0.166207
			9	0.109595	9	0.246142
				BIAS CORR		
				0.830503		
				VAR COEFF		0.012706
				0.011301		
				EFFICIENCY		100.00
				100.00		
				EFF (M/N)		100.00
				100.00		
9	9	8	1	0.243984	2	0.054650
			2	0.101399	3	0.055563
			3	0.091476	4	0.072066
			4	0.131847	5	0.089676
			6	0.131936	6	0.104552
			7	0.092182	7	0.133556
			8	0.097283	8	0.166794

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	l	LOCATION	l	SCALE
4	4	2	2	0.109067	5	0.246270
			3	0.090102		
			4	0.071136		0.017717
			5	47.76		47.55
			BIAS CORR			
			VAN CLEFT			
			EFFICIENCY			
4	4	3	1	0.246151	2	0.017855
			2	0.109119	4	0.107480
			3	0.137787	3	0.089674
			4	0.109014	2	0.109788
			5	0.137711	1	0.135481
			6	0.097290	2	0.142515
			7	0.110185	5	0.246151
BIAS CORR						
VAN CLEFT			0.017770			
EFFICIENCY			47.61			
4	4	4	1	0.246101	1	0.017771
			2	0.109170	4	0.107170
			3	0.137721	3	0.103367
			4	0.109174	2	0.137721
			5	0.137777	1	0.161157
			6	0.110410	5	0.246101
			7	0.072491		
BIAS CORR						
VAN CLEFT			0.017710			
EFFICIENCY			47.57			
4	4	5	1	0.246094	1	0.107410
			2	0.109118	4	0.105779
			3	0.137894	3	0.101919
			4	0.110171	2	0.161721
			5	0.130806	5	0.246119
			6	0.072494		
			7	0.019117		
BIAS CORR						
VAN CLEFT			0.017819			
EFFICIENCY			47.17			
4	4	6	1	0.246110	4	0.107517
			2	0.109081	3	0.201484
			3	0.137777	2	0.227741
			4	0.137557	5	0.246119
			5	0.011190		
			6	0.011717		
			7	0.011717		
BIAS CORR						
VAN CLEFT			0.017710			

TABLE 1  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION		SCALE	
				EFFICIENCY		EFFICIENCY	
5	5	3	1	0.336710	4	0.258100	
			2	0.363777	7	0.363066	
			3	0.309104	9	0.309689	
			BIAS CORR	0.777771			
			VAR CORR	0.017771		0.013776	
			EFFICIENCY	97.47			96.77
5	5	2	1	0.428107	1	0.507491	
			2	0.571498	4	0.363731	
			BIAS CORR	0.747481			
			VAR CORR	0.018410		0.014000	
			EFFICIENCY	81.01		90.71	
5	5	1	1	1.000000	1	0.037107	
			BIAS CORR	0.778100			
			VAR CORR	0.010798		0.017706	
			EFFICIENCY	60.77		71.66	
5	5	2	1	0.749770	1	0.074968	
			2	0.103607	7	0.044768	
			3	0.091065	9	0.047731	
			4	0.090803	4	0.081710	
			5	0.089837	1	0.101731	
			6	0.091758	1	0.127739	
			7	0.093193	7	0.140599	
			8	0.107631	1	0.094610	
			BIAS CORR	0.806881			
			VAR CORR	0.011991		0.014110	
EFFICIENCY	100.00		100.00				
			EFFICIENCY	97.80		98.77	
5	5	3	1	0.750785	7	0.081017	
			2	0.103770	9	0.087817	
			3	0.097710	4	0.081731	
			4	0.110100	1	0.100277	
			5	0.118787	7	0.127739	
			6	0.072675	9	0.140667	
			7	0.140116	1	0.140686	
			BIAS CORR	0.800766			

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 7 TO 10)  
 SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				0.014722		0.014722
				99.74		99.74
				VAN CLEFF		
				EFFICIENCY		
7	0	6	1	0.251654	7	0.087948
			2	0.104643	4	0.115970
			3	0.136105	3	0.100777
			4	0.185081	2	0.121171
			5	0.195377	1	0.140713
			6	0.188415	0	0.403198
				BIAS CORR		
				0.722885		
				VAN CLEFF		0.014722
				EFFICIENCY		99.74
7	0	5	1	0.252019	7	0.087704
			2	0.144471	4	0.140110
			3	0.137001	3	0.111916
			4	0.167471	2	0.140449
			5	0.220515	1	0.406486
			6	0.229240	0	
				BIAS CORR		
				0.911716		
				VAN CLEFF		0.014722
				EFFICIENCY		99.74
7	0	4	1	0.241167	7	0.145714
			2	0.241171	4	0.301171
			3	0.232564	3	0.204701
			4	0.232564	2	0.201171
			5	0.211171	1	
			6	0.011171	0	
				BIAS CORR		
				0.011171		
				VAN CLEFF		0.014722
				EFFICIENCY		99.74
7	0	3	1	0.241171	7	0.224711
			2	0.241171	4	0.244711
			3	0.204711	3	0.211171
			4	0.211171	2	
			5	0.211171	1	
			6	0.011171	0	
				BIAS CORR		
				0.011171		
				VAN CLEFF		0.014722
				EFFICIENCY		99.74
7	0	2	1	0.241171	7	0.244711
			2	0.241171	4	0.244711
			3	0.244711	3	
			4	0.244711	2	
			5	0.244711	1	
			6	0.011171	0	
				BIAS CORR		
				0.011171		
				VAN CLEFF		0.014722
				EFFICIENCY		99.74

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	89.17	99.34
4	8	1	4	1.000000	8	0.832102
				BIAS CORR	0.794100	0.017786
				VAR CORR	0.018798	80.48
				EFFICIENCY	61.46	
4	7	7	1	0.798351	1	0.078699
			2	0.707133	2	0.090304
			3	0.571277	3	0.071866
			4	0.052949	4	0.091399
			5	0.093034	5	0.114987
			6	0.093534	6	0.138414
			7	0.297975	7	0.954319
				BIAS CORR	0.761357	
				VAR CORR	0.011957	0.012406
				EFFICIENCY	100.00	100.00
				EFFICIENCY	94.70	77.45
4	7	6	1	0.759074	1	0.070084
			2	0.707470	2	0.071817
			3	0.697119	3	0.091419
			4	0.139718	4	0.110016
			5	0.136745	5	0.138917
			6	0.708166	6	0.986674
				BIAS CORR	0.787029	
				VAR CORR	0.017010	0.012917
				EFFICIENCY	79.71	99.91
4	7	5	1	0.757881	1	0.100087
			2	0.707919	2	0.131083
			3	0.140788	3	0.114986
			4	0.140737	4	0.138884
			5	0.901189	5	0.953319
				BIAS CORR	0.786978	
				VAR CORR	0.017068	0.012441
				EFFICIENCY	99.41	99.78
4	7	4	1	0.748754	1	0.100304
			3	0.706166	3	0.138207
			5	0.141810	5	0.144879

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 3.00

N	M	L	k	LOCATION	k	SCALE			
			1	0.303025	1	0.998787			
			2	0.767374					
			3	0.017147		0.016491			
			4	90.76		99.48			
			BIAS CORR VAR COEFF EFFICIENCY						
4	7	3	1	0.315508	1	0.170968			
			2	0.314008	2	0.236498			
			3	0.350884	3	0.622019			
			4	0.771846					
			BIAS CORR VAR COEFF EFFICIENCY			0.016974 98.48			
4	7	2	1	0.428307	4	0.329861			
			2	0.511748	1	0.687444			
			3	0.743461					
			4	0.013610		0.016843			
			EFFICIENCY			97.60			
4	7	1	1	1.000000	1	0.426483			
			2	0.794100					
			3	0.018798		0.016474			
			4	61.87		87.65			
			EFFICIENCY						
4	6	6	1	0.764781	1	0.037645			
			2	0.112107	2	0.054224			
			3	0.100736	3	0.087059			
			4	0.097491	4	0.107980			
			5	0.094745	5	0.111981			
			6	0.123847	6	0.106491			
			BIAS CORR VAR COEFF EFFICIENCY			0.014771 100.00 66.19			
			4	6	5	1	0.770668	1	0.082187
						2	0.117469	2	0.087034
						3	0.100707	3	0.107938
4	0.145217	4				0.131633			
5	0.170749	5				0.107444			
BIAS CORR VAR COEFF			0.014738						



TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM 1-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	99.72	99.92
4	6	4	1	0.271610	2	0.116903
			2	0.159014	4	0.191219
			4	0.201117	6	0.151622
			6	0.372260	6	0.700690
				BIAS CORR		
				0.711219		
				VAN CLEFT		0.019270
				EFFICIENCY	99.34	99.76
4	6	3	1	0.313564	2	0.116903
			3	0.261466	4	0.210722
			6	0.426767	6	0.774902
				BIAS CORR		
				0.712708		
				VAN CLEFT		0.019316
				EFFICIENCY	98.19	99.42
4	6	2	1	0.420302	4	0.271211
			6	0.571498	6	0.781289
				BIAS CORR		
				0.743461		
				VAN CLEFT		0.019920
				EFFICIENCY	92.19	98.88
4	6	1	4	1.000000	6	1.021636
				BIAS CORR		
				0.794100		
				VAN CLEFT		0.020474
				EFFICIENCY	66.72	94.80
4	6	6	1	0.280707	1	0.034289
			2	0.110090	2	0.064926
			3	0.106486	3	0.094490
			4	0.101710	4	0.121974
			5	0.107066	5	0.071702
				BIAS CORR		
				0.290318		
				VAN CLEFT		0.021216
				EFFICIENCY	100.00	100.00
				EFFICIENCY	89.19	94.71
4	6	4	1	0.286968	2	0.041970
			2	0.110768	3	0.094477
			3	0.104761	4	0.126662

TABLE 1  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM 1-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			5	0.441203	5	0.872649
			BIAS CORR	0.690753		
			VAR COEFF	0.013317		0.023237
			EFFICIENCY	99.67		99.61
4	3		1	0.129018	2	0.131219
			3	0.225817	4	0.181714
			5	0.444165	5	0.874156
			BIAS CORR	0.692796		
VAR COEFF	0.013413		0.023284			
EFFICIENCY	98.98		99.71			
4	2		1	0.407756	3	0.231091
			5	0.592244	5	0.443071
			BIAS CORR	0.692748		
			VAR COEFF	0.013420		0.023307
EFFICIENCY	95.37		99.77			
4	1		4	1.000000	5	1.128733
			BIAS CORR	0.796100		
			VAR COEFF	0.010748		0.024030
			EFFICIENCY	70.62		96.61
4	4		1	0.307488	1	0.048476
			2	0.176861	2	0.087591
			3	0.113537	3	0.121861
			4	0.672112	4	1.061730
			BIAS CORR	0.664224		
			VAR COEFF	0.014304		0.024302
EFFICIENCY	100.00		100.00			
EFF (P/4)	79.01		43.36			
4	3		1	0.308697	2	0.121716
			2	0.176911	3	0.121828
			4	0.517387	4	1.062940
			BIAS CORR	0.664734		
VAR COEFF	0.014365		0.024339			
EFFICIENCY	99.97		99.67			
4	2		1	0.179497	2	0.122811
			4	0.604948	4	1.133161

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.649839	
				VAR COEFF	0.014650	0.029406
				EFFICIENCY	97.64	99.65
4	4	1	4	1.000000	4	1.259287
				BIAS CORR	0.794100	
				VAR COEFF	0.018798	0.029410
				EFFICIENCY	76.09	96.30
4	3	3	1	0.340034	1	0.064336
			2	0.134127	2	0.114431
			3	0.920819	2	1.299631
				BIAS CORR	0.990131	
				VAR COEFF	0.019849	0.039694
				EFFICIENCY	100.00	100.00
				EFF(M/N)	71.32	32.01
4	1	2	1	0.370473	2	0.154785
			3	0.604527	1	1.301258
				BIAS CORR	0.977334	
				VAR COEFF	0.019978	0.034753
				EFFICIENCY	49.17	44.85
4	3	1	3	1.000000	3	1.439181
				BIAS CORR	0.646716	
				VAR COEFF	0.014412	0.034983
				EFFICIENCY	81.63	89.28
4	2	2	1	0.344718	1	0.044076
			2	0.605282	2	1.643146
				BIAS CORR	0.977443	
				VAR COEFF	0.018467	0.061348
				EFFICIENCY	100.00	100.00
				EFF(M/N)	61.14	20.71
4	2	1	2	1.000000	2	1.712301
				BIAS CORR	0.984010	
				VAR COEFF	0.020467	0.061474
				EFFICIENCY	88.08	44.80
4	1	1	1	1.000000	1	2.324375

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	i	LOCATION	i	SCALE
				BIAS CORR	0.427300	
				VAR COEFF	0.024345	0.137053
				EFFICIENCY	100.00	100.00
				EFF(M/N)	46.47	9.82
10	10	10	1	0.271743	1	0.018317
			2	0.043883	2	0.032820
			3	0.083836	3	0.046114
			4	0.074950	4	0.054396
			5	0.078291	5	0.073129
			6	0.072331	6	0.088202
			7	0.081005	7	0.105329
			8	0.083676	8	0.126302
			9	0.088063	9	0.155071
			10	0.092727	10	0.226249
				BIAS CORR	0.828307	
				VAR COEFF	0.010149	0.011406
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	100.00
10	10	4	1	0.232343	2	0.045780
			2	0.044178	3	0.046084
			3	0.083706	4	0.054375
			4	0.118324	5	0.073112
			6	0.114027	6	0.088287
			7	0.080819	7	0.105331
			8	0.086247	8	0.126301
			9	0.088018	9	0.155124
			10	0.092426	10	0.226136
				BIAS CORR	0.028315	
				VAR COEFF	0.010168	0.011410
				EFFICIENCY	99.81	99.96
10	10	8	1	0.232725	2	0.064776
			2	0.043731	4	0.083118
			3	0.120727	5	0.072741
			4	0.111794	6	0.088648
			7	0.112356	7	0.105051
			8	0.083186	8	0.127603
			9	0.088710	9	0.155175
			10	0.092611	10	0.226310

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE			
				BIAS CORR	0.828349				
				VAR COEFF	0.010191	0.011419			
				EFFICIENCY	99.59	99.88			
10	10	7	1	0.233443	2	0.064935			
			2	0.129277	4	0.120390			
			4	0.165780	6	0.125273			
			6	0.162959	7	0.104706			
			8	0.120937	8	0.127225			
			9	0.088195	9	0.155204			
			10	0.100009	10	0.226871			
				BIAS CORR	0.828529				
				VAR COEFF	0.010221		0.011436		
				EFFICIENCY	99.79		99.74		
			10	10	6	1	0.266741	2	0.109909
3	0.179421	5				0.149364			
5	0.162845	7				0.142084			
7	0.168641	8				0.126081			
9	0.122001	9				0.156140			
10	0.100957	10				0.227317			
	BIAS CORR	0.829420							
	VAR COEFF	0.010277					0.011424		
	EFFICIENCY	98.73					99.47		
10	10	5				1	0.269356	2	0.150075
						3	0.216577	4	0.219713
			6	0.206972	6	0.174252			
			8	0.180147	9	0.157435			
			10	0.126953	10	0.224604			
				BIAS CORR	0.826497				
				VAR COEFF	0.010378		0.011528		
				EFFICIENCY	97.79		98.55		
			10	10	4	1	0.302764	4	0.206528
						4	0.271839	7	0.260458
						7	0.274756	9	0.207991
10	0.191142	10				0.230526			
	BIAS CORR	0.822903							
	VAR COEFF	0.010604					0.011634		
	EFFICIENCY	95.70					98.03		

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
10	10	3	1	0.339214	1	0.287941
			5	0.383995	2	0.322868
			9	0.276790	10	0.281746
			BIAS CORR	0.804024		
			VAR COEFF	0.011034		0.011902
		EFFICIENCY	91.97			95.83
10	10	2	1	0.430068	7	0.520640
			7	0.569932	10	0.336500
			BIAS CORR	0.755696		
			VAR COEFF	0.012338		0.012641
			EFFICIENCY	82.25		89.94
10	10	1	5	1.000000	9	0.816243
			BIAS CORR	0.844601		
			VAR COEFF	0.016992		0.016220
			EFFICIENCY	59.73		70.32
10	9	9	1	0.237113	1	0.020390
			2	0.699932	2	0.030300
			3	0.085779	3	0.051464
			4	0.081499	4	0.069329
			5	0.080967	5	0.081059
			6	0.080679	6	0.097047
			7	0.082686	7	0.116871
			8	0.084898	8	0.138867
			9	0.170449	9	0.371833
			BIAS CORR	0.801990		
			VAR COEFF	0.016979		0.012689
EFFICIENCY	100.00		100.00			
		EFF (M/N)	97.62			89.92
10	9	8	1	0.237539	2	0.050797
			2	0.096239	3	0.051434
			3	0.085650	4	0.065352
			4	0.120940	5	0.081844
			6	0.121372	6	0.097121
			7	0.082294	7	0.116935
			8	0.085486	8	0.138938
			9	0.170584	9	0.371988

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE			
				BIAS CORR	0.801499				
				VAR COEFF	0.010796	0.012690			
				EFFICIENCY	99.80	99.96			
10	4	7	1	0.238130	2	0.072005			
			2	0.095989	4	0.034114			
			3	0.123374	5	0.081667			
			5	0.165027	6	0.097956			
			7	0.171697	7	0.116533			
			8	0.084403	8	0.134286			
			9	0.171709	9	0.372236			
				BIAS CORR	0.801503				
				VAR COEFF	0.010418		0.012701		
				EFFICIENCY	99.50		99.87		
10	4	6	1	0.238606	2	0.072003			
			2	0.132168	4	0.133604			
			4	0.164373	6	0.138983			
			6	0.166736	7	0.116167			
			8	0.122334	8	0.134738			
			9	0.171700	9	0.372646			
				BIAS CORR	0.801580				
				VAR COEFF	0.010431		0.012722		
				EFFICIENCY	99.27		99.71		
			10	4	5	1	0.272726	2	0.122069
3	0.143374	5				0.168837			
5	0.166764	7				0.163456			
7	0.171733	8				0.138691			
9	0.209757	9				0.374143			
	BIAS CORR	0.802447							
	VAR COEFF	0.010510					0.012756		
	EFFICIENCY	98.71					99.40		
10	4	4				1	0.276721	2	0.156454
						3	0.222171	6	0.237068
			6	0.262839	8	0.142261			
			9	0.238823	9	0.379055			
				BIAS CORR	0.799513				
				VAR COEFF	0.010645		0.012834		
				EFFICIENCY	97.46		98.84		

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 7 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE		
10	9	3	1	0.339214	4	0.229535		
			5	0.383995	7	0.289045		
			9	0.276790	9	0.434733		
			BIAS CORR		0.804024			
			VAR CCEFF		0.011034		0.012965	
		EFFICIENCY	94.03		97.84			
10	9	2	1	0.430068	6	0.423761		
			7	0.564932	9	0.495498		
			BIAS CORR		0.755696			
			VAR CCEFF		0.012338		0.013398	
					EFFICIENCY	84.09		94.68
10	9	1	5	1.000000	9	0.816243		
			BIAS CORR		0.844601			
			VAR CCEFF		0.016492		0.016220	
					EFFICIENCY	61.06		78.21
10	8	8	1	0.244161	1	0.022853		
			2	0.098937	2	0.041350		
			3	0.087689	3	0.056457		
			4	0.084901	4	0.075455		
			5	0.081946	5	0.089847		
			6	0.083652	6	0.110752		
			7	0.084155	7	0.129311		
			8	0.234560	8	0.507703		
			BIAS CORR		0.772162			
			VAR CCEFF		0.010685		0.014301	
		EFFICIENCY	100.00		100.00			
		EFF(M/N)	94.48		79.75			
10	8	7	1	0.244593	2	0.057525		
			2	0.092250	3	0.056476		
			3	0.087560	4	0.075989		
			4	0.124721	5	0.088833		
			6	0.124841	6	0.110844		
			7	0.083759	7	0.129330		
			8	0.235276	8	0.508153		
			BIAS CORR		0.772087			
VAR CCEFF		0.010706		0.014308				



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE			
				EFFICIENCY	99.80	99.55			
10	8	6	1	0.245135	2	0.080798			
			2	0.099688	4	0.107522			
			3	0.087200	5	0.088637			
			4	0.125420	6	0.111329			
			6	0.170009	7	0.129007			
			8	0.272554	8	0.502805			
			BIAS CORR		0.771183				
			VAR COEFF		0.010732		0.014321		
EFFICIENCY		99.57		99.26					
10	8	5	1	0.245794	2	0.080894			
			2	0.135992	4	0.150436			
			4	0.174352	6	0.155881			
			6	0.170521	7	0.128625			
			8	0.273341	8	0.509954			
			BIAS CORR		0.772074				
			VAR COEFF		0.010764		0.014346		
			EFFICIENCY		99.27		99.69		
10	8	4	1	0.282025	3	0.137420			
			3	0.226459	5	0.185557			
			6	0.215784	7	0.183241			
			8	0.275733	8	0.510214			
			BIAS CORR		0.774220				
			VAR COEFF		0.010867		0.014393		
			EFFICIENCY		98.33		99.36		
			10	8	3	1	0.316527	4	0.205603
4	0.329006	6				0.226512			
8	0.354467	8				0.571653			
BIAS CORR		0.774266							
VAR COEFF		0.011116					0.014486		
EFFICIENCY		96.13					98.72		
10	8	2				1	0.430068	5	0.354215
						7	0.569932	8	0.632302
			BIAS CORR		0.755696				
			VAR COEFF		0.012338		0.014753		
			EFFICIENCY		86.60		96.93		

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
10	8	1	5	1.000000	8	0.902218
			BIAS CORR	0.844601		
			VAR CCEFF	0.016992		0.016406
			EFFICIENCY	82.88		87.17
10	7	7	1	0.253447	1	0.026303
			2	0.102101	2	0.046016
			3	0.072301	3	0.067821
			4	0.085644	4	0.081176
			5	0.086755	5	0.105947
			6	0.085055	6	0.122761
			7	0.294699	7	0.644278
			BIAS CORR	0.740142		
			VAR CCEFF	0.011090		0.016306
			EFFICIENCY	100.00		100.00
EFF(M/N)	91.51		69.56			
10	7	6	1	0.254011	2	0.064637
			2	0.102077	3	0.067791
			3	0.092931	4	0.081214
			4	0.085247	5	0.105940
			5	0.130377	6	0.122872
			7	0.335357	7	0.644582
			BIAS CORR	0.739648		
			VAR CCEFF	0.011113		0.016405
			EFFICIENCY	99.79		99.94
			10	7	5	1
2	0.102182	4				0.119152
3	0.131837	5				0.105732
5	0.175259	6				0.123474
7	0.336150	7				0.644989
BIAS CORR	0.739873					
VAR CCEFF	0.011138					0.016425
EFFICIENCY	99.57		99.83			
10	7	4	1	0.290590	2	0.092761
			3	0.145160	4	0.170360
			5	0.176153	6	0.176675
			7	0.330097	7	0.645923

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		0.016460
				EFFICIENCY		99.61
10	7	3	1	0.324591	3	0.156990
			4	0.290910	5	0.211701
			7	0.384499	7	0.706784
				BIAS CORR		
				VAR CCEFF		0.016510
				EFFICIENCY		99.31
10	7	2	1	0.430068	4	0.292481
			7	0.569932	7	0.767478
				BIAS CORR		
				VAR CCEFF		0.016701
				EFFICIENCY		98.18
10	7	1	5	1.000000	7	0.986959
				BIAS CORR		
				VAR CCEFF		0.017764
				EFFICIENCY		92.30
10	6	6	1	0.265282	1	0.030296
			2	0.107625	2	0.055567
			3	0.094483	3	0.074087
			4	0.091770	4	0.100159
			5	0.088479	5	0.118293
			6	0.352361	6	0.787776
				BIAS CORR		
				VAR CCEFF		0.019216
				EFFICIENCY		100.00
				EFF(M/N)		59.35
10	6	5	1	0.265791	2	0.077022
			2	0.107978	3	0.074056
			3	0.094361	4	0.100214
			4	0.134781	5	0.118293
			6	0.397089	6	0.788278
				BIAS CORR		
				VAR CCEFF		0.019228
				EFFICIENCY		99.94

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE			
10	6	4	1	0.266569	2	0.107597			
			2	0.147299	4	0.141673			
			4	0.187773	5	0.118074			
			6	0.398359	6	0.789394			
			BIAS CORR	0.705551					
			VAR CCEFF	0.011679		0.019251			
			EFFICIENCY	99.47		99.82			
10	6	3	1	0.306032	2	0.107784			
			3	0.244769	4	0.148504			
			6	0.449199	6	0.649892			
			BIAS CORR	0.707258					
			VAR CCEFF	0.011799		0.019295			
			EFFICIENCY	98.46		99.59			
			10	6	2	1	0.408033	3	0.232526
6	0.591967	6				0.910522			
BIAS CORR	0.718053								
VAR CCEFF	0.012439					0.019435			
EFFICIENCY	93.39					98.87			
10	6	1				5	1.000000	6	1.078402
						BIAS CORR	0.844601		
			VAR CCEFF	0.016992		0.020132			
			EFFICIENCY	68.37		95.45			
10	5	5	1	0.291350	1	0.036719			
			2	0.113029	2	0.064328			
			3	0.101292	3	0.092296			
			4	0.095051	4	0.115221			
			5	0.409278	5	0.946220			
			BIAS CORR	0.665980					
			VAR CCEFF	0.012319		0.023210			
			EFFICIENCY	100.00		100.00			
			EFF(M/N)	82.38		49.14			
10	5	4	1	0.282048	2	0.090341			
			2	0.113174	3	0.092273			
			3	0.144707	4	0.115299			
			5	0.460071	5	0.946858			

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.666037	
				VAR CCEFF	0.012350	0.023228
				EFFICIENCY	99.75	99.92
10	5	3	1	0.322142	2	0.128474
			3	0.214963	4	0.167002
			5	0.462890	5	0.948048
				BIAS CORR	0.668400	
				VAR CCEFF	0.012430	0.023263
				EFFICIENCY	99.11	99.77
10	5	2	1	0.393770	2	0.217390
			5	0.606230	5	1.011672
				BIAS CORR	0.675234	
				VAR CCEFF	0.012832	0.023340
				EFFICIENCY	96.00	99.44
10	5	1	5	1.000000	5	1.183992
				BIAS CORR	0.844601	
				VAR CCEFF	0.016992	0.023821
				EFFICIENCY	72.50	97.44
10	4	4	1	0.303189	1	0.045277
			2	0.121936	2	0.081131
			3	0.107651	3	0.112051
			4	0.467224	4	1.131682
				BIAS CORR	0.621637	
				VAR CCEFF	0.013292	0.029257
				EFFICIENCY	100.00	100.00
				EFF(M/N)	76.35	38.93
10	4	3	1	0.304213	2	0.113227
			2	0.166866	3	0.112038
			4	0.528920	4	1.132624
				BIAS CORR	0.622185	
				VAR CCEFF	0.013341	0.029324
				EFFICIENCY	99.63	99.91
10	4	2	1	0.385622	2	0.159575
			4	0.614378	4	1.196971
				BIAS CORR	0.627028	

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY		0.029377 99.73
10	4	1	4	1.000000 BIAS CORR 0.760433 VAR CCEFF 0.017169 EFFICIENCY 77.43	4	1.315000 0.029689 98.68
10	3	3	1	0.335783	1	0.059858
			2	0.133899	2	0.105942
			3	0.530318	3	1.367549
				BIAS CORR 0.569559 VAR CCEFF 0.014743 EFFICIENCY 100.00 EFF(M/N) 68.84		0.039691 100.00 28.74
10	3	2	1	0.383662	2	0.148440
			3	0.616338	2	1.368916
				BIAS CORR 0.571657 VAR CCEFF 0.014855 EFFICIENCY 99.24		0.039738 99.88
10	3	1	3	1.000000 BIAS CORR 0.669495 VAR CCEFF 0.017892 EFFICIENCY 82.40	2	1.493664 0.039918 99.43
10	2	2	1	0.390297	1	0.087533
			2	0.609703	2	1.712857
				BIAS CORR 0.504814 VAR CCEFF 0.017201 EFFICIENCY 100.00 EFF(M/N) 59.00		0.061346 100.00 18.59
10	2	1	2	1.000000 BIAS CORR 0.562638 VAR CCEFF 0.019452 EFFICIENCY 88.43	2	1.777341 0.061447 99.84
10	1	1	1	1.000000 BIAS CORR 0.414484	1	2.412636

TABLE 3

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF	0.022693	0.132093
				EFFICIENCY	100.00	100.00
				EFF(M/N)	44.72	8.63

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
2	2	2	1	0.506651	1	0.258560
			2	0.493349	2	0.762350
			BIAS CORR	0.897597		
			VAR CCEFF	0.040534		0.046102
			EFFICIENCY	100.00		100.00
		EFF(M/N)	100.00		100.00	
2	2	1	1	1.000000	2	0.942152
			BIAS CORR	0.738094		
			VAR CCEFF	0.054558		0.049109
			EFFICIENCY	74.30		93.88
2	1	1	1	1.000000	1	1.354840
			BIAS CORR	0.738094		
			VAR CCEFF	0.054558		0.100146
			EFFICIENCY	100.00		100.00
		EFF(M/N)	74.30		46.04	
3	3	3	1	0.368665	1	0.125562
			2	0.276083	2	0.277320
			3	0.355252	3	0.584771
			BIAS CORR	0.896510		
			VAR CCEFF	0.026953		0.029693
			EFFICIENCY	100.00		100.00
		EFF(M/N)	100.00		100.00	
3	3	2	1	0.508735	2	0.358617
			3	0.491265	3	0.593005
			BIAS CORR	0.895598		
			VAR CCEFF	0.028561		0.030169
		EFFICIENCY	94.37		98.42	
3	3	1	2	1.000000	3	0.875416
			BIAS CORR	0.899573		
			VAR CCEFF	0.038011		0.033580
		EFFICIENCY	70.91		87.38	
3	2	2	1	0.426693	1	0.185821
			2	0.573307	2	0.975844
			BIAS CORR	0.796220		
			VAR CCEFF	0.031475		0.045922



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				85.63		64.66
				EFFICIENCY		
				EFF(M/N)		
3	2	1	2	1.000000	2	1.111639
				BIAS CORR		
				0.899573		
				VAR CCEFF		0.046972
				0.038011		
				EFFICIENCY		97.76
				82.81		
3	1	1	1	1.000000	1	1.521247
				BIAS CORR		
				0.657355		
				VAR CCEFF		0.100146
				0.043275		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		29.65
				62.28		
4	4	4	1	0.300469	1	0.075850
			2	0.198875	2	0.158114
			3	0.221622	3	0.258281
			4	0.279034	4	0.477931
				BIAS CORR		
				0.895434		
				VAR CCEFF		0.021850
				0.020167		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		100.00
				100.00		
4	4	3	1	0.383155	2	0.209172
			3	0.331371	3	0.259359
			4	0.285474	4	0.480740
				BIAS CORR		
				0.899744		
				VAR CCEFF		0.021988
				0.020705		
				EFFICIENCY		99.37
				97.40		
4	4	2	1	0.512461	2	0.412904
			4	0.487539	4	0.496336
				BIAS CORR		
				0.892584		
				VAR CCEFF		0.022777
				0.022861		
				EFFICIENCY		95.93
				88.22		
4	4	1	3	1.000000	4	0.837270
				BIAS CORR		
				0.986179		
				VAR CCEFF		0.026756
				0.030353		
				EFFICIENCY		81.66
				66.44		

TABLE 1  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM 1-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L		LOCATION		SCALE
4	3	3	1	0.331691	1	0.100879
			2	0.217249	2	0.208012
			3	0.451064	3	0.780600
			BIAS CORR	0.022277		
			VAR COEFF	0.022314		0.029572
			EFFICIENCY	100.00		100.00
			EFF(M/L)	90.36		73.89
4	3	2	1	0.422946	2	0.276442
			3	0.577004	3	0.786127
			BIAS CORR	0.425147		
			VAR COEFF	0.022962		0.029416
			EFFICIENCY	97.20		94.18
4	3	1	3	1.000000	3	1.014014
			BIAS CORR	0.986174		
			VAR COEFF	0.010353		0.031210
			EFFICIENCY	73.53		94.75
4	2	2	1	0.340099	1	0.148649
			2	0.659900	2	1.114355
			BIAS CORR	0.717024		
			VAR COEFF	0.026482		0.045872
			EFFICIENCY	100.00		100.00
			EFF(M/L)	76.17		47.63
4	2	1	2	1.000000	2	1.230064
			BIAS CORR	0.912966		
			VAR COEFF	0.030768		0.047403
			EFFICIENCY	87.15		48.66
4	1	1	1	1.000000	1	1.051569
			BIAS CORR	0.605489		
			VAR COEFF	0.016713		0.100146
			EFFICIENCY	100.00		100.00
			EFF(M/L)	54.93		21.82
5	5	5	1	0.259062	1	0.051477
			2	0.157511	2	0.104079
			3	0.167046	3	0.161637
			4	0.185844	4	0.235916

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
			5	0.230537	5	0.406238
			BIAS CORR	0.894411		
			VAR CCEFF	0.016101		0.017270
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
5	5	4	1	0.262495	2	0.139752
			2	0.237412	3	0.161849
			4	0.266706	4	0.236516
			5	0.233387	5	0.407447
			BIAS CORR	0.894297		
			VAR CCEFF	0.016339		0.017324
			EFFICIENCY	98.54		99.69
5	5	3	1	0.325505	2	0.216308
			3	0.371667	4	0.315104
			5	0.302827	5	0.412153
			BIAS CORR	0.892426		
			VAR CCEFF	0.016728		0.017547
			EFFICIENCY	96.26		98.42
5	5	2	1	0.421987	3	0.414081
			4	0.578013	5	0.509258
			BIAS CORR	0.843035		
			VAR CCEFF	0.018544		0.018192
			EFFICIENCY	86.83		94.93
5	5	1	3	1.000000	5	0.811684
			BIAS CORR	0.899800		
			VAR CCEFF	0.024618		0.022500
			EFFICIENCY	65.40		76.76
5	4	4	1	0.278715	1	0.064337
			2	0.168821	2	0.129544
			3	0.177792	3	0.199429
			4	0.374672	4	0.657416
			BIAS CORR	0.836854		
			VAR CCEFF	0.017339		0.021771
			EFFICIENCY	100.00		100.00
			EFF(M/N)	92.86		79.33

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE			
5	4	3	1	0.282630	2	0.174258			
			2	0.254079	3	0.195836			
			4	0.463291	4	0.659736			
			BIAS CORR	0.835975					
			VAR CCEFF	0.017609		0.021855			
			EFFICIENCY	98.47		99.62			
5	4	2	1	0.421987	2	0.269532			
			4	0.578013	4	0.763085			
			BIAS CORR	0.843035					
			VAR CCEFF	0.018544		0.022155			
			EFFICIENCY	93.51		98.09			
			5	4	1	3	1.000000	4	0.958069
BIAS CORR	0.899800								
VAR CCEFF	0.024618					0.023761			
EFFICIENCY	70.43					91.62			
5	3	3				1	0.311769	1	0.085355
						2	0.186500	2	0.170230
			3	0.502231	3	0.914619			
			BIAS CORR	0.769557					
			VAR CCEFF	0.019421		0.029532			
			EFFICIENCY	100.00		100.00			
			EFF(M/N)	82.91		58.48			
5	3	2	1	0.393102	2	0.229810			
			3	0.616898	3	0.918511			
			BIAS CORR	0.772720					
			VAR CCEFF	0.019784		0.029679			
			EFFICIENCY	98.17		99.50			
			5	3	1	3	1.000000	3	1.111359
BIAS CORR	0.899800								
VAR CCEFF	0.024618					0.030406			
EFFICIENCY	78.89					97.12			
5	2	2				1	0.368995	1	0.125479
						2	0.631005	2	1.229963
			BIAS CORR	0.696079					
			VAR CCEFF	0.023208		0.045851			

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	100.00	100.00
				EFF(M/N)	69.38	37.67
5	2	1	2	1.000000	2	1.324368
				BIAS CORR	0.755077	
				VAR CCEFF	0.026324	0.046171
				EFFICIENCY	88.13	99.31
5	1	1	1	1.000000	1	1.760294
				BIAS CORR	0.568087	
				VAR CCEFF	0.032319	0.100146
				EFFICIENCY	100.00	100.00
				EFF(M/N)	49.82	17.24
6	6	6	1	0.230870	1	0.037565
			2	0.131764	2	0.074506
			3	0.135169	3	0.112685
			4	0.144904	4	0.156932
			5	0.160436	5	0.215715
			6	0.196856	6	0.354552
				BIAS CORR	0.893467	
				VAR CCEFF	0.013395	0.014272
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	100.00
6	6	5	1	0.232656	2	0.101070
			2	0.192062	3	0.112710
			4	0.215350	4	0.157126
			5	0.161504	5	0.216050
			6	0.198428	6	0.355159
				BIAS CORR	0.894433	
				VAR CCEFF	0.013511	0.014297
				EFFICIENCY	99.14	99.82
6	6	4	1	0.280884	2	0.150686
			3	0.290639	4	0.215531
			5	0.227898	5	0.216998
			6	0.200580	6	0.357048
				BIAS CORR	0.896317	
				VAR CCEFF	0.013679	0.014378
				EFFICIENCY	97.92	99.26

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE		
6	6	3	1	0.334612	3	0.273371		
			4	0.404008	5	0.289412		
			6	0.261380	6	0.361424		
				BIAS CORR	0.897484			
				VAR CCEFF	0.014182		0.014569	
				EFFICIENCY	94.45		97.96	
		6	6	2	1	0.422199	4	0.452088
5	0.577801				6	0.449184		
	BIAS CORR				0.855280			
				VAR CCEFF	0.015822		0.015194	
				EFFICIENCY	84.66		93.93	
6	6			1	4	1.000000	5	0.920639
						BIAS CORR	0.958893	
			VAR CCEFF		0.021007		0.019429	
			EFFICIENCY		63.76		73.45	
6	5	5	1	0.244505	1	0.045103		
			2	0.139297	2	0.089242		
			3	0.142552	3	0.134572		
			4	0.151906	4	0.185976		
			5	0.321741	5	0.571392		
			BIAS CORR	0.846048				
			VAR CCEFF	0.014192		0.017215		
			EFFICIENCY	100.00		100.00		
			EFF(M/N)	94.38		82.90		
		6	5	4	1	0.246504	2	0.121177
2	0.202979				3	0.134648		
4	0.226291				4	0.186269		
5	0.324226				5	0.572525		
	BIAS CORR				0.846666			
	VAR CCEFF			0.014321		0.017251		
	EFFICIENCY			99.09		99.79		
6	5	3	1	0.297684	2	0.180640		
			3	0.306553	4	0.256300		
			5	0.395764	5	0.575927		
				BIAS CORR	0.848127			

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY	0.014508 97.82	0.017367 99.13
6	5	2	1	0.422199	3	0.327286
			5	0.577801	5	0.667324
				BIAS CORR		
				0.855280		
				VAR CCEFF		0.017640
				EFFICIENCY		97.59
6	5	1	4	1.000000	5	0.920639
				BIAS CORR		
				0.958893		
				VAR CCEFF		0.015429
				EFFICIENCY		88.61
6	4	4	1	0.265457	1	0.056287
			2	0.150597	2	0.111005
			3	0.153043	3	0.165996
			4	0.430903	4	0.783224
				BIAS CORR		
				0.792267		
				VAR CCEFF		0.021741
				EFFICIENCY		100.00
				EFF(M/N)		65.65
6	4	3	1	0.267778	2	0.150933
			2	0.219099	3	0.166169
			4	0.513123	4	0.785069
				BIAS CORR		
				0.792486		
				VAR CCEFF		0.021797
				EFFICIENCY		99.74
6	4	2	1	0.379708	2	0.224636
			4	0.620792	4	0.876010
				BIAS CORR		
				0.799552		
				VAR CCEFF		0.021973
				EFFICIENCY		98.94
6	4	1	4	1.000000	4	1.042869
				BIAS CORR		
				0.958893		
				VAR CCEFF		0.022847
				EFFICIENCY		95.16

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
6	3	3	1	0.298206	1	0.074560
			2	0.167407	2	0.145766
			3	0.534387	3	1.018156
			BIAS CORR	0.729308		
			VAR CCEFF	0.017379		0.029513
			EFFICIENCY	100.00		100.00
			EFF(M/N)	77.07		48.36
6	3	2	1	0.359535	2	0.198804
			3	0.640465	3	1.021045
			BIAS CORR	0.732323		
			VAR CCEFF	0.017621		0.029612
			EFFICIENCY	98.63		99.67
6	3	1	3	1.000000	3	1.189476
			BIAS CORR	0.40706		
			VAR CCEFF	0.021245		0.030059
			EFFICIENCY	81.80		98.18
6	2	2	1	0.355250	1	0.109449
			2	0.644750	2	1.321113
			BIAS CORR	0.650801		
			VAR CCEFF	0.020854		0.045840
			EFFICIENCY	100.00		100.00
			EFF(M/N)	64.23		31.13
6	2	1	2	1.000000	2	1.403976
			BIAS CORR	0.712263		
			VAR CCEFF	0.023364		0.048054
			EFFICIENCY	89.26		99.54
6	1	1	1	1.000000	1	1.854421
			BIAS CORR	0.539252		
			VAR CCEFF	0.029122		0.100146
			EFFICIENCY	100.00		100.00
			EFF(M/N)	46.00		14.25
7	7	7	1	0.210226	1	0.028808
			2	0.114197	2	0.056377
			3	0.114238	3	0.083875
			4	0.119563	4	0.113967



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
			5	0.128330	5	0.149837
			6	0.141399	6	0.198337
			7	0.172045	7	0.315379
			BIAS CORR	0.892604		
			VAR CCEFF	0.011464		0.012158
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
7	7	6	1	0.211380	2	0.077046
			2	0.114672	3	0.083054
			3	0.172133	4	0.114001
			5	0.186879	5	0.149964
			6	0.141986	6	0.198540
			7	0.172949	7	0.315716
			BIAS CORR	0.892568		
			VAR CCEFF	0.011531		0.012171
			EFFICIENCY	99.43		99.89
7	7	5	1	0.212825	2	0.112526
			2	0.164152	4	0.159217
			4	0.251387	5	0.150239
			6	0.197631	6	0.199077
			7	0.174005	7	0.316617
			BIAS CORR	0.892259		
			VAR CCEFF	0.011617		0.012207
			EFFICIENCY	90.69		99.59
7	7	4	1	0.254547	3	0.200197
			3	0.245720	5	0.206496
			5	0.278536	6	0.200142
			7	0.221197	7	0.318657
			BIAS CORR	0.890598		
			VAR CCEFF	0.011781		0.012289
			EFFICIENCY	97.31		98.93
7	7	3	1	0.301579	4	0.315197
			4	0.428543	6	0.268030
			7	0.269878	7	0.324016
			BIAS CORR	0.888027		
			VAR CCEFF	0.012304		0.012510
			EFFICIENCY	93.18		97.18

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
7	7	2	2	0.493281	5	0.478001
			6	0.506719	7	0.405141
			BIAS CORR	0.902015		
			VAR CCEFF	0.013807		0.013127
			EFFICIENCY	83.03		92.62
7	7	1	4	1.000000	6	0.893300
			BIAS CORR	0.899958		
			VAR CCEFF	0.018171		0.016594
			EFFICIENCY	63.09		73.27
7	6	6	1	0.220311	1	0.033618
			2	0.119592	2	0.065767
			3	0.119430	3	0.097538
			4	0.124810	4	0.132351
			5	0.133207	5	0.172717
			6	0.282651	6	0.507386
			BIAS CORR	0.852300		
			VAR CCEFF	0.012017		0.014232
			EFFICIENCY	100.00		100.00
EFF(M/N)	95.40		85.43			
7	6	5	1	0.221571	2	0.089903
			2	0.120117	3	0.097531
			3	0.179908	4	0.132461
			5	0.194365	5	0.172894
			6	0.284039	6	0.508008
			BIAS CORR	0.852040		
VAR CCEFF	0.012089		0.014250			
EFFICIENCY	99.40		99.87			
7	6	4	1	0.223137	2	0.131233
			2	0.171900	4	0.185091
			4	0.262234	5	0.173290
			6	0.342729	6	0.509661
			BIAS CORR	0.851470		
VAR CCEFF	0.012183		0.014299			
EFFICIENCY	98.64		99.53			
7	6	3	1	0.268976	3	0.233351

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
			3	0.326556	5	0.238909
			6	0.404467	6	0.513238
			BIAS CORR	0.851601		
			VAR CCEFF	0.012463		0.014410
			EFFICIENCY	96.42		98.76
7	6	2	2	0.493281	4	0.367332
			6	0.506719	6	0.597990
			BIAS CORR	0.902015		
			VAR CCEFF	0.013807		0.014710
			EFFICIENCY	87.04		96.75
7	6	1	4	1.000000	6	0.893300
			BIAS CORR	0.899958		
			VAR CCEFF	0.018171		0.016594
			EFFICIENCY	66.13		85.77
7	5	5	1	0.235077	1	0.040369
			2	0.127261	2	0.078614
			3	0.126917	3	0.116646
			4	0.131706	4	0.156763
			5	0.379039	5	0.689722
			BIAS CORR	0.807472		
			VAR CCEFF	0.012829		0.017193
			EFFICIENCY	100.00		100.00
			EFF(M/N)	89.36		70.71
7	5	4	1	0.236483	2	0.107622
			2	0.127855	3	0.116665
			3	0.190793	4	0.156931
			5	0.444869	5	0.690697
			BIAS CORR	0.806967		
			VAR CCEFF	0.012910		0.017219
			EFFICIENCY	99.38		99.85
7	5	3	1	0.281295	2	0.157160
			3	0.270007	4	0.220021
			5	0.448698	5	0.693186
			BIAS CORR	0.810237		
			VAR CCEFF	0.013031		0.017289
			EFFICIENCY	98.45		99.44

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
7	5	2	1	0.377975	2	0.279015
			5	0.622025	5	0.775430
			BIAS CORR	0.818991		
			VAR CCEFF	0.013838		0.017446
			EFFICIENCY	92.71		98.55
7	5	1	4	1.000000	5	0.996915
			BIAS CORR	0.899958		
			VAR CCEFF	0.018171		0.018460
			EFFICIENCY	70.60		93.13
7	4	4	1	0.256410	1	0.050282
			2	0.138294	2	0.097857
			3	0.136876	3	0.143720
			4	0.468420	4	0.881377
			BIAS CORR	0.756715		
			VAR CCEFF	0.014012		0.021725
			EFFICIENCY	100.00		100.00
			EFF(M/N)	81.82		55.96
7	4	3	1	0.258018	2	0.134035
			2	0.197146	3	0.143792
			4	0.544836	4	0.882862
			BIAS CORR	0.757267		
			VAR CCEFF	0.014110		0.021766
EFFICIENCY	99.31		99.81			
7	4	2	1	0.354466	2	0.195261
			4	0.645534	4	0.963916
			BIAS CORR	0.763854		
			VAR CCEFF	0.014504		0.021873
EFFICIENCY	96.61		99.32			
7	4	1	4	1.000000	4	1.111163
			BIAS CORR	0.899958		
			VAR CCEFF	0.018171		0.022436
			EFFICIENCY	77.11		96.83
7	3	3	1	0.289110	1	0.066556
			2	0.154352	2	0.128388

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
			3	0.556539	3	1.103303
			BIAS CORR	0.697092		
			VAR CCEFF	0.015841		0.029502
			EFFICIENCY	100.00		100.00
			EFF(M/N)	72.37		41.21
7	3	2	1	0.343852	2	0.176370
			3	0.656148	3	1.105539
			BIAS CORR	0.699902		
			VAR CCEFF	0.016019		0.029573
			EFFICIENCY	98.89		99.76
7	3	1	3	1.000000	3	1.255860
			BIAS CORR	0.796267		
			VAR CCEFF	0.018943		0.029876
			EFFICIENCY	83.63		98.75
7	2	2	1	0.345578	1	0.097597
			2	0.654422	2	1.399283
			BIAS CORR	0.622455		
			VAR CCEFF	0.019059		0.045834
			EFFICIENCY	100.00		100.00
			EFF(M/N)	60.15		26.53
7	2	1	2	1.000000	2	1.473490
			BIAS CORR	0.678661		
			VAR CCEFF	0.021181		0.045987
			EFFICIENCY	89.99		99.67
7	1	1	1	1.000000	1	1.937921
			BIAS CORR	0.516017		
			VAR CCEFF	0.026666		0.100146
			EFFICIENCY	100.00		100.00
			EFF(M/N)	42.99		12.14
8	8	8	1	0.194329	1	0.022903
			2	0.101441	2	0.044384
			3	0.099446	3	0.065272
			4	0.102236	4	0.087367
			5	0.107643	5	0.112188
			6	0.115350	6	0.142302

TABLE 1  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE	
			7	0.126583	7	0.183495	
			8	0.152972	8	0.284575	
			BIAS CORR		0.891818		
			VAR COEFF		0.010019		0.010588
			EFFICIENCY		100.00		100.00
			EFF(M/N)		100.00		100.00
			8	8	7	1	0.195049
2	0.101691	3				0.065240	
3	0.147110	4				0.087402	
5	0.160004	5				0.112234	
6	0.115557	6				0.142401	
7	0.127076	7				0.183617	
8	0.153512	8				0.284778	
BIAS CORR		0.892140					
VAR COEFF		0.010097		0.010596			
EFFICIENCY		99.61		99.93			
8	8	6	1	0.195862	2	0.087418	
			2	0.143459	4	0.123469	
			4	0.212382	5	0.112267	
			6	0.166701	6	0.142690	
			7	0.127368	7	0.183871	
			8	0.154228	8	0.285278	
			BIAS CORR		0.892802		
			VAR COEFF		0.010105		0.010614
EFFICIENCY		99.14		99.75			
8	8	5	1	0.210441	3	0.154917	
			3	0.211766	5	0.157213	
			5	0.225656	6	0.142882	
			7	0.176420	7	0.184658	
			8	0.155217	8	0.286337	
			BIAS CORR		0.893415		
			VAR COEFF		0.010184		0.010656
EFFICIENCY		98.37		99.36			
8	8	4	1	0.234896	3	0.155486	
			3	0.265756	5	0.237170	
			6	0.302140	7	0.249048	
			8	0.197208	8	0.288462	

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		0.8898C9
				VAR CCEFF		0.010365
				EFFICIENCY		96.66
8	8	3	1	0.277982	4	0.317570
			4	0.361775	7	0.30C013
			7	0.360743	8	0.2947C6
				BIAS CORR		0.860479
				VAR CCEFF		0.010895
				EFFICIENCY		91.95
8	8	2	1	0.377157	5	0.483327
			6	0.622843	8	0.416513
				BIAS CORR		0.833892
				VAR CCEFF		0.012237
				EFFICIENCY		81.87
8	8	1	5	1.000000	7	0.872167
				BIAS CORR		0.944794
				VAR CCEFF		0.016079
				EFFICIENCY		62.31
8	7	7	1	0.202148	1	0.026192
			2	0.105444	2	0.050658
			3	0.103405	3	0.074658
			4	0.105999	4	0.099336
			5	0.111611	5	0.127739
			6	0.118897	6	0.160735
			7	0.252496	7	0.457630
				BIAS CORR		0.856781
				VAR CCEFF		0.010423
				EFFICIENCY		100.00
				EFF(M/N)		87.30
8	7	6	1	0.202923	2	0.069661
			2	0.105719	3	0.074629
			3	0.152844	4	0.093885
			5	0.165921	5	0.127804
			6	0.119125	6	0.160864
			7	0.253468	7	0.457994
				BIAS CORR		0.856987

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY		0.010465 99.60 0.012138 99.92
8	7	5	1	0.203806	2	0.100403
			2	0.149182	4	0.140673
			4	0.220437	5	0.127873
			6	0.172189	6	0.161231
			7	0.254386	7	0.458835
				BIAS CORR		
				0.857299		
				VAR CCEFF		0.012163
				EFFICIENCY		99.72
8	7	4	1	0.240332	3	0.176982
			3	0.220147	5	0.179087
			5	0.233703	6	0.161528
			7	0.305818	7	0.460894
				BIAS CORR		
				0.858337		
				VAR CCEFF		0.012216
				EFFICIENCY		99.28
8	7	3	1	0.277982	3	0.178376
			4	0.361775	5	0.269693
			7	0.360243	7	0.531551
				BIAS CORR		
				0.860479		
				VAR CCEFF		0.012330
				EFFICIENCY		98.36
8	7	2	1	0.377157	4	0.362137
			6	0.622843	7	0.601336
				BIAS CORR		
				0.833892		
				VAR CCEFF		0.012650
				EFFICIENCY		95.87
8	7	1	5	1.000000	7	0.872167
				BIAS CORR		
				0.944794		
				VAR CCEFF		0.014590
				EFFICIENCY		83.13
8	6	6	1	0.213152	1	0.030528
			2	0.111187	2	0.059290
			3	0.108473	3	0.086287



TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
			4	0.111594	4	0.115986
			5	0.116360	5	0.146952
			6	0.339235	6	0.612976
			BIAS CORR	0.818338		
			VAR CCEFF	0.010995		0.014215
			EFFICIENCY	100.00		100.00
			EFF(M/N)	91.12		74.48
8	6	5	1	0.214013	2	0.081450
			2	0.111459	3	0.086264
			3	0.160553	4	0.116059
			5	0.173567	5	0.147046
			6	0.340368	6	0.619552
			BIAS CORR	0.818398		
			VAR CCEFF	0.011041		0.014228
			EFFICIENCY	99.58		99.90
8	6	4	1	0.214973	2	0.117113
			2	0.157126	4	0.163833
			4	0.231358	5	0.147167
			6	0.396542	6	0.620950
			BIAS CORR	0.818582		
			VAR CCEFF	0.011097		0.014261
			EFFICIENCY	99.08		99.67
8	6	3	1	0.255384	3	0.206085
			3	0.287754	5	0.207140
			6	0.456862	6	0.623726
			BIAS CORR	0.820074		
			VAR CCEFF	0.011275		0.014336
			EFFICIENCY	97.51		99.16
8	6	2	1	0.377157	4	0.318636
			6	0.622843	6	0.700843
			BIAS CORR	0.833892		
			VAR CCEFF	0.012237		0.014520
			EFFICIENCY	89.85		97.90
8	6	1	5	1.000000	6	0.963322
			BIAS CORR	0.944794		
			VAR CCEFF	0.016079		0.015599

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				68.38		91.13
				EFFICIENCY		
8	5	5	1	0.228374	1	0.036705
			2	0.118598	2	0.070470
			3	0.116060	3	0.103863
			4	0.117966	4	0.136797
			5	0.419002	5	0.783054
				BIAS CORR		
				0.775730		
				VAR CCEFF		0.017181
				0.011785		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		61.63
				85.01		
8	5	4	1	0.229339	2	0.097132
			2	0.118954	3	0.103855
			3	0.171151	4	0.136909
			5	0.480557	5	0.783919
				BIAS CORR		
				0.775645		
				VAR CCEFF		0.017200
				0.011836		
				EFFICIENCY		99.89
				99.56		
8	5	3	1	0.270128	2	0.140129
			3	0.245806	4	0.194508
			5	0.484067	5	0.785756
				BIAS CORR		
				0.778563		
				VAR CCEFF		0.017248
				0.011930		
				EFFICIENCY		99.61
				98.78		
8	5	2	1	0.351431	3	0.246369
			5	0.648569	5	0.860002
				BIAS CORR		
				0.787320		
				VAR CCEFF		0.017352
				0.012492		
				EFFICIENCY		99.01
				94.33		
8	5	1	5	1.000000	5	1.058431
				BIAS CORR		
				0.944794		
				VAR CCEFF		0.018013
				0.016079		
				EFFICIENCY		95.38
				73.29		
8	4	4	1	0.249813	1	0.045555
			2	0.129424	2	0.087997
			3	0.125406	3	0.127536

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
			4	0.495357	4	0.962433
			BIAS CORR	0.727386		
			VAR CCEFF	0.012910		0.021716
			EFFICIENCY	100.00		100.00
			EFF(M/N)	77.60		48.76
8	4	3	1	0.251031	2	0.121147
			2	0.181949	3	0.127557
			4	0.567020	4	0.963652
			BIAS CORR	0.728049		
			VAR CCEFF	0.012980		0.021747
			EFFICIENCY	99.46		99.86
8	4	2	1	0.337480	2	0.174057
			4	0.662520	4	1.036868
			BIAS CORR	0.734162		
			VAR CCEFF	0.013277		0.021819
			EFFICIENCY	97.23		99.53
8	4	1	4	1.000000	4	1.169423
			BIAS CORR	0.855122		
			VAR CCEFF	0.016243		0.022213
			EFFICIENCY	79.48		97.76
8	3	3	1	0.282406	1	0.060353
			2	0.144845	2	0.115291
			3	0.572749	3	1.176079
			BIAS CORR	0.670434		
			VAR CCEFF	0.014629		0.029496
			EFFICIENCY	100.00		100.00
			EFF(M/N)	68.48		35.90
8	3	2	1	0.332625	2	0.159235
			3	0.667375	3	1.177866
			BIAS CORR	0.673057		
			VAR CCEFF	0.014769		0.021549
			EFFICIENCY	99.06		99.82
8	3	1	3	1.000000	3	1.314140
			BIAS CORR	0.760954		
			VAR CCEFF	0.017237		0.029768

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		99.08
				84.87		
8	2	2	1	0.338402	1	0.088423
			2	0.661598	2	1.468114
				BIAS CORR		0.045830
				VAR CCEFF		100.00
				EFFICIENCY		23.10
				EFF(M/N)		
8	2	1	2	1.000000	2	1.535556
				BIAS CORR		0.045945
				VAR CCEFF		99.75
				EFFICIENCY		
				90.50		
8	1	1	1	1.000000	1	2.013285
				BIAS CORR		0.100146
				VAR CCEFF		100.00
				EFFICIENCY		10.57
				EFF(M/N)		
				40.55		
9	9	9	1	0.181628	1	0.018716
			2	0.091746	2	0.035991
			3	0.088450	3	0.052459
			4	0.089615	4	0.069499
			5	0.093080	5	0.088013
			6	0.098040	6	0.109101
			7	0.104916	7	0.135021
			8	0.114692	8	0.170763
			9	0.137835	9	0.259661
				BIAS CORR		0.009376
				VAR CCEFF		100.00
				EFFICIENCY		100.00
				EFF(M/N)		100.00
9	9	8	1	0.182129	2	0.049679
			2	0.091869	3	0.052466
			3	0.129218	4	0.069523
			5	0.140338	5	0.088015
			6	0.097873	6	0.109172
			7	0.105514	7	0.135058
			8	0.114820	8	0.170851

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
			9	0.138240	9	0.259790
			BIAS CORR	0.891539		
			VAR CCEFF	0.008921		0.009381
			EFFICIENCY	99.72		99.95
9	9	7	1	0.182750	2	0.070960
			2	0.091985	4	0.099068
			3	0.129732	5	0.087893
			5	0.191479	6	0.109501
			7	0.150391	7	0.135016
			8	0.114996	8	0.171108
			9	0.138667	9	0.260069
			BIAS CORR	0.890991		
			VAR CCEFF	0.008950		0.009392
			EFFICIENCY	99.39		99.84
9	9	6	1	0.183459	2	0.071067
			2	0.128865	4	0.141917
			4	0.186044	6	0.152952
			6	0.204183	7	0.135013
			8	0.158366	8	0.171613
			9	0.139083	9	0.260634
			BIAS CORR	0.890654		
			VAR CCEFF	0.008993		0.009414
			EFFICIENCY	98.92		99.60
9	9	5	1	0.215405	3	0.124746
			3	0.189394	5	0.181756
			5	0.193915	7	0.186037
			7	0.226217	8	0.171705
			9	0.175070	9	0.261732
			BIAS CORR	0.889271		
			VAR CCEFF	0.009081		0.009452
			EFFICIENCY	97.95		99.20
9	9	4	1	0.245677	4	0.191874
			4	0.301898	6	0.231073
			7	0.274086	8	0.228711
			9	0.178339	9	0.263952
			BIAS CORR	0.893359		
			VAR CCEFF	0.009258		0.009543

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	i	LOCATION	i	SCALE
				EFFICIENCY		98.25
9	9	3	1	0.258192	4	0.248147
			4	0.375473	7	0.347660
			8	0.366335	9	0.322252
				BIAS CORR		0.009756
				VAR CCEFF		96.11
				EFFICIENCY		
9	9	2	2	0.442470	6	0.504396
			7	0.557530	9	0.382465
				BIAS CORR		0.010327
				VAR CCEFF		90.80
				EFFICIENCY		
9	9	1	5	1.000000	8	0.855174
				BIAS CORR		0.013096
				VAR CCEFF		71.60
				EFFICIENCY		
9	8	8	1	0.187988	1	0.021050
			2	0.094920	2	0.040560
			3	0.091314	3	0.058758
			4	0.092832	4	0.078553
			5	0.095806	5	0.098163
			6	0.101212	6	0.122486
			7	0.107572	7	0.150145
			8	0.228455	8	0.417686
				BIAS CORR		0.010565
				VAR CCEFF		100.00
				EFFICIENCY		88.75
				EFF(M/N)		
9	8	7	1	0.188385	2	0.055958
			2	0.095285	3	0.058725
			3	0.091276	4	0.078585
			4	0.139743	5	0.098170
			6	0.148607	6	0.122573
			7	0.107527	7	0.150207
			8	0.229176	8	0.417923
				BIAS CORR		0.860026

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				0.009230 99.71		0.010571 99.94
9	8	6	1	0.189087	2	0.079788
			2	0.095188	4	0.111670
			3	0.134104	5	0.098046
			5	0.197595	6	0.122958
			7	0.154546	7	0.150166
			8	0.229480	8	0.418507
				BIAS CORR 0.859817		
				VAR CCEFF 0.009261		0.010584
				EFFICIENCY 99.37		99.82
9	8	5	1	0.189830	2	0.079930
			2	0.133278	4	0.159511
			4	0.192295	6	0.171473
			6	0.210286	7	0.150159
			8	0.274311	8	0.419671
				BIAS CORR 0.859383		
				VAR CCEFF 0.009306		0.010612
				EFFICIENCY 98.89		99.55
9	8	4	1	0.223232	3	0.140394
			3	0.238764	5	0.203881
			6	0.260730	7	0.207617
			8	0.277274	8	0.420964
				BIAS CORR 0.861846		
				VAR CCEFF 0.009413		0.010661
				EFFICIENCY 97.77		99.10
9	8	3	1	0.258192	4	0.216022
			4	0.375473	6	0.258764
			8	0.366335	8	0.486837
				BIAS CORR 0.859950		
				VAR CCEFF 0.009741		0.010774
				EFFICIENCY 94.48		98.06
9	8	2	2	0.442470	5	0.394007
			7	0.557530	8	0.551901
				BIAS CORR 0.872744		
				VAR CCEFF 0.010936		0.011076

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	84.15	95.34
9	8	1	5	1.000000	8	0.215174
				BIAS CORR	0.900066	
				VAR CCEFF	0.014392	0.013096
				EFFICIENCY	63.95	80.67
9	7	7	1	0.196517	1	0.024129
			2	0.098996	2	0.045938
			3	0.095946	3	0.068251
			4	0.095877	4	0.087630
			5	0.100596	5	0.113339
			6	0.104468	6	0.137658
			7	0.307598	7	0.563190
				BIAS CORR	0.826461	
				VAR CCEFF	0.009626	0.012114
				EFFICIENCY	100.00	100.00
				EFF(M/N)	92.41	77.40
9	7	6	1	0.197091	2	0.063593
			2	0.099147	3	0.068219
			3	0.139590	4	0.087673
			5	0.151185	5	0.113357
			6	0.104308	6	0.137768
			7	0.303679	7	0.563529
				BIAS CORR	0.826762	
				VAR CCEFF	0.009655	0.012122
				EFFICIENCY	99.70	99.93
9	7	5	1	0.197795	2	0.091294
			2	0.099291	4	0.126129
			3	0.140168	5	0.113737
			5	0.205728	6	0.138240
			7	0.357017	7	0.564154
				BIAS CORR	0.875993	
				VAR CCEFF	0.009688	0.012140
				EFFICIENCY	99.36	99.79
9	7	4	1	0.231115	2	0.091494
			3	0.202922	4	0.181454
			5	0.206833	6	0.194345



TABLE 1  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
			7	0.359130	7	0.565523
			BIAS CORR	0.928796		
			VAR COEFF	0.009747		0.012178
			EFFICIENCY	98.75		99.48
9	7	3	1	0.263935	3	0.160447
			4	0.323138	5	0.232062
			7	0.412927	7	0.631507
			BIAS CORR	0.831983		
			VAR COEFF	0.009949		0.012236
			EFFICIENCY	96.75		99.00
9	7	2	2	0.442470	4	0.313350
			7	0.557530	7	0.696755
			BIAS CORR	0.872744		
			VAR COEFF	0.010936		0.012435
			EFFICIENCY	88.02		97.42
9	7	1	5	1.000000	7	0.937362
			BIAS CORR	0.900066		
			VAR COEFF	0.014392		0.013585
			EFFICIENCY	66.88		89.18
9	6	6	1	0.207858	1	0.027982
			2	0.105098	2	0.054498
			3	0.100061	3	0.076994
			4	0.102463	4	0.104737
			5	0.104450	5	0.128781
			6	0.380071	6	0.708022
			BIAS CORR	0.789713		
			VAR COEFF	0.010189		0.014205
			EFFICIENCY	100.00		100.00
			EFF(M/N)	87.31		66.01
9	6	5	1	0.208453	2	0.074980
			2	0.105522	3	0.076962
			3	0.100043	4	0.104798
			4	0.153642	5	0.128812
			6	0.432339	6	0.708549
			BIAS CORR	0.789417		
			VAR COEFF	0.010221		0.014216

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	99.69	99.93
9	6	4	1	0.209150	2	0.106251
			2	0.146572	4	0.148211
			4	0.210760	6	0.128697
			6	0.433911	6	0.709795
			BIAS CORR	0.790330		
			VAR CCEFF	0.010260		0.014239
			EFFICIENCY	95.31		99.76
9	6	3	1	0.246195	2	0.106520
			3	0.262035	4	0.211171
			6	0.491770	6	0.775157
			BIAS CORR	0.792226		
			VAR CCEFF	0.010388		0.014287
			EFFICIENCY	98.08		99.43
9	6	2	1	0.349516	4	0.284953
			6	0.650484	6	0.781761
			BIAS CORR	0.805709		
			VAR CCEFF	0.011077		0.014420
			EFFICIENCY	91.98		98.51
9	6	1	5	1.000000	6	1.019808
			BIAS CORR	0.900066		
			VAR CCEFF	0.014392		0.015130
			EFFICIENCY	70.80		93.89
9	5	5	1	0.223356	1	0.033804
			2	0.111975	2	0.063861
			3	0.108176	3	0.094441
			4	0.107841	4	0.121869
			5	0.448653	5	0.860715
			BIAS CORR	0.748939		
			VAR CCEFF	0.010749		0.017173
			EFFICIENCY	100.00		100.00
			EFF(M/N)	81.4		54.60
9	5	4	1	0.224084	2	0.088617
			2	0.112184	3	0.094418
			3	0.157319	4	0.121958

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
			5	0.506413	5	0.861411
			BIAS CORR	0.749032		
			VAR CCEFF	0.010986		0.017189
			EFFICIENCY	99.67		99.91
9	5	3	1	0.261935	2	0.127025
			3	0.228391	4	0.175276
			5	0.509674	5	0.862850
			BIAS CORR	0.751686		
			VAR CCEFF	0.011061		0.017224
			EFFICIENCY	98.99		99.71
9	5	2	1	0.333463	3	0.222251
			5	0.666537	5	0.930316
			BIAS CORR	0.760078		
			VAR CCEFF	0.011485		0.017297
			EFFICIENCY	95.34		99.29
9	5	1	5	1.000000	5	1.111029
			BIAS CORR	0.900066		
			VAR CCEFF	0.014392		0.017765
			EFFICIENCY	76.08		96.67
9	4	4	1	0.244774	1	0.041808
			2	0.122737	2	0.080324
			3	0.116805	3	0.115089
			4	0.515684	4	1.031921
			BIAS CORR	0.702574		
			VAR CCEFF	0.012020		0.021711
			EFFICIENCY	100.00		100.00
			EFF(M/N)	74.01		43.19
9	4	3	1	0.245752	2	0.110965
			2	0.170766	3	0.115082
			4	0.583482	4	1.032842
			BIAS CORR	0.703270		
			VAR CCEFF	0.012073		0.021734
			EFFICIENCY	99.56		99.89
9	4	2	1	0.325197	2	0.157841
			4	0.674803	4	1.099708

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.708957	
				VAR CCEFF	0.012310	0.021786
				EFFICIENCY	97.64	99.65
9	4	1	4	1.000000	4	1.220752
				BIAS CORR	0.819167	
				VAR CCEFF	0.014815	0.022078
				EFFICIENCY	81.13	98.33
9	3	3	1	0.277259	1	0.055384
			2	0.137606	2	0.105003
			3	0.585135	3	1.239929
				BIAS CORR	0.647830	
				VAR CCEFF	0.013644	0.029491
				EFFICIENCY	100.00	100.00
				EFF(M/N)	65.20	31.79
9	3	2	1	0.324176	2	0.145639
			3	0.675824	3	1.241394
				BIAS CORR	0.650290	
				VAR CCEFF	0.013757	0.029533
				EFFICIENCY	99.17	99.86
9	3	1	3	1.000000	3	1.366406
				BIAS CORR	0.731847	
				VAR CCEFF	0.015907	0.029699
				EFFICIENCY	85.77	99.30
9	2	2	1	0.332864	1	0.081080
			2	0.667136	2	1.529872
				BIAS CORR	0.578955	
				VAR CCEFF	0.016470	0.045821
				EFFICIENCY	100.00	100.00
				EFF(M/N)	54.01	20.46
9	2	1	2	1.000000	2	1.591858
				BIAS CORR	0.628197	
				VAR CCEFF	0.018120	0.045916
				EFFICIENCY	90.89	99.81
9	1	1	1	1.000000	1	2.082189

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		0.480264
				VAR CCEFF		0.023099
				EFFICIENCY		100.00
				EFF(M/N)		38.51
10	10	10	1	0.171193	1	0.015626
			2	0.084119	2	0.029873
			3	0.079949	3	0.043275
			4	0.080026	4	0.056897
			5	0.082233	5	0.071239
			6	0.085535	6	0.087209
			7	0.090225	7	0.105494
			8	0.096261	8	0.128232
			9	0.104944	9	0.159757
			10	0.125515	10	0.239057
				BIAS CORR		0.890440
				VAR CCEFF		0.007998
				EFFICIENCY		100.00
				EFF(M/N)		100.00
10	10	9	1	0.171482	2	0.041376
			2	0.084488	3	0.043243
			3	0.079653	4	0.056923
			4	0.119435	5	0.071203
			6	0.127658	6	0.087293
			7	0.089446	7	0.105482
			8	0.097250	8	0.128298
			9	0.104761	9	0.159808
			10	0.125826	10	0.239145
				BIAS CORR		0.890576
				VAR CCEFF		0.008014
				EFFICIENCY		99.80
10	10	8	1	0.171996	2	0.058696
			2	0.083981	4	0.081635
			3	0.116307	5	0.070910
			5	0.168021	6	0.087888
			7	0.132611	7	0.104963
			8	0.095185	8	0.128755
			9	0.105979	9	0.159804
			10	0.125921	10	0.239344

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		0.890734
				VAR CCEFF		0.008033
				EFFICIENCY		99.57
10	10	7	1	0.172278	2	0.058753
			2	0.116938	4	0.115349
			4	0.165616	6	0.124162
			6	0.175759	7	0.104290
			8	0.138031	8	0.129620
			9	0.104853	9	0.159693
			10	0.126525	10	0.239737
				BIAS CORR		0.891025
				VAR CCEFF		0.008057
				EFFICIENCY		99.26
10	10	6	1	0.200434	3	0.102733
			3	0.170318	5	0.145460
			5	0.169469	7	0.148763
			7	0.188198	8	0.127432
			9	0.144730	9	0.161091
			10	0.126850	10	0.240118
				BIAS CORR		0.891946
				VAR CCEFF		0.008102
				EFFICIENCY		98.71
10	10	5	1	0.202789	4	0.156945
			3	0.207283	6	0.180219
			6	0.222034	8	0.177508
			8	0.208228	9	0.160566
			10	0.159666	10	0.241607
				BIAS CORR		0.889500
				VAR CCEFF		0.008192
				EFFICIENCY		97.62
10	10	4	1	0.230611	4	0.197183
			4	0.315902	7	0.261375
			8	0.290580	9	0.214382
			10	0.162907	10	0.243569
				BIAS CORR		0.891537
				VAR CCEFF		0.008380
				EFFICIENCY		95.44

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE	
10	10	3	1	0.264041	5	0.279656	
			5	0.401617	8	0.330691	
			9	0.334342	10	0.297551	
				BIAS CORR	0.867530		
				VAR CCEFF	0.008786		0.008776
				EFFICIENCY	91.02		95.86
		10	10	2	2	0.443027	7
8	0.556973				10	0.355064	
	BIAS CORR				0.877271		
	VAR CCEFF			0.009915		0.009344	
	EFFICIENCY			80.67		90.04	
10	10	1	6	1.000000	5	0.841102	
				BIAS CORR	0.936184		
				VAR CCEFF	0.013029		0.011936
				EFFICIENCY	61.39		70.48
10	9	9	1	0.176355	1	0.017377	
			2	0.086583	2	0.033077	
			3	0.082531	3	0.048485	
			4	0.081920	4	0.062219	
			5	0.085234	5	0.080312	
			6	0.087351	6	0.095432	
			7	0.092927	7	0.117303	
			8	0.098275	8	0.140805	
			9	0.208824	9	0.384822	
			BIAS CORR	0.862683			
			VAR CCEFF	0.008239		0.009358	
			EFFICIENCY	100.00		100.00	
			EFF(M/N)	97.07		89.90	
10	9	8	1	0.176667	2	0.045871	
			2	0.086972	3	0.048451	
			3	0.082230	4	0.062250	
			4	0.122776	5	0.080276	
			6	0.131020	6	0.095529	
			7	0.092127	7	0.117294	
			8	0.099305	8	0.140883	
			9	0.208902	9	0.384970	

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
				0.862753		
				0.008257		0.009362
				99.79		99.96
10	9	7	1	0.177193	2	0.065283
			2	0.086450	4	0.089945
			3	0.119759	5	0.079956
			5	0.172965	6	0.096204
			7	0.136228	7	0.116724
			8	0.097180	8	0.141407
			9	0.210227	9	0.385176
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
				0.862893		
				0.00827		0.009370
				99.56		99.87
10	9	6	1	0.177518	2	0.065359
			2	0.120491	4	0.127984
			4	0.170477	6	0.137129
			6	0.190591	7	0.115987
			8	0.141328	8	0.142406
			9	0.209594	9	0.385468
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
				0.863058		
				0.008303		0.009385
				99.23		99.71
10	9	5	1	0.206507	2	0.114069
			3	0.175390	5	0.161589
			5	0.174487	7	0.164735
			7	0.193025	8	0.139991
			9	0.250591	9	0.387385
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
				0.863944		
				0.008349		0.009409
				98.68		99.46
10	9	4	1	0.209601	4	0.174407
			3	0.214468	6	0.199641
			6	0.286142	8	0.195823
			9	0.289790	9	0.388400
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
				0.861772		
				0.008472		0.009467
				97.26		98.85



TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
10	9	3	1	0.264041	4	0.219068
			5	0.401617	7	0.289536
			9	0.334342	9	0.449658
			BIAS CORR	0.867530		
			VAR CCEFF	0.008786		0.009564
			EFFICIENCY	93.77		97.85
10	9	2	2	0.443027	6	0.417754
			8	0.556973	9	0.512152
			BIAS CORR	0.877271		
			VAR CCEFF	0.009915		0.009879
			EFFICIENCY	83.10		94.72
10	9	1	6	1.000000	9	0.841102
			BIAS CORR	0.936184		
			VAR CCEFF	0.013029		0.011936
			EFFICIENCY	63.24		78.40
10	8	8	1	0.183241	1	0.019474
			2	0.090277	2	0.037871
			3	0.084568	3	0.052253
			4	0.087163	4	0.074201
			5	0.085819	5	0.085032
			6	0.092243	6	0.110529
			7	0.094960	7	0.129042
			8	0.281730	8	0.517886
			BIAS CORR	0.832751		
			VAR CCEFF	0.008564		0.010554
			EFFICIENCY	100.00		100.00
EFF(M/N)	93.39		79.71			
10	8	7	1	0.183558	2	0.052213
			2	0.090671	3	0.052217
			3	0.084266	4	0.074240
			4	0.128301	5	0.084994
			6	0.136213	6	0.110644
			7	0.094156	7	0.129037
			8	0.282836	8	0.518137
			BIAS CORR	0.832811		
			VAR CCEFF	0.008582		0.010559

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	:	SCALE
				EFFICIENCY		99.79
						99.95
10	8	6	1	0.184178	2	0.073138
			2	0.090163	4	0.104097
			3	0.124205	6	0.084651
			5	0.178854	8	0.111380
			7	0.140726		0.128429
			8	0.291874		0.518918
				BIAS CORR		0.832761
				VAR CCEFF		0.008605
				EFFICIENCY		99.53
10	8	5	1	0.184452	2	0.073225
			2	0.125034	4	0.144383
			4	0.177204	6	0.154723
			6	0.186899	7	0.127658
			8	0.326411	8	0.520280
				BIAS CORR		0.833024
				VAR CCEFF		0.008630
				EFFICIENCY		99.24
10	8	4	1	0.215665	3	0.128523
			3	0.220039	5	0.180447
			6	0.235010	7	0.184141
			8	0.329286	8	0.519837
				BIAS CORR		0.835418
				VAR CCEFF		0.008713
				EFFICIENCY		98.28
10	8	3	1	0.245455	4	0.196562
			4	0.335512	6	0.223741
			8	0.419033	8	0.582336
				BIAS CORR		0.836419
				VAR CCEFF		0.008923
				EFFICIENCY		95.97
10	8	2	2	0.443027	5	0.344015
			8	0.556973	8	0.644109
				BIAS CORR		0.877271
				VAR CCEFF		0.009915
				EFFICIENCY		86.37
						96.95

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
10	8	1	6	1.000000	8	0.916504
			BIAS CORR	0.936184		
			VAR CCEFF	0.013029		0.012089
			EFFICIENCY	65.73		87.30
10	7	7	1	0.192327	1	0.022530
			2	0.093698	2	0.041415
			3	0.091275	3	0.065082
			4	0.086777	4	0.075744
			5	0.093745	5	0.105008
			6	0.093636	6	0.120493
			7	0.348542	7	0.648370
			BIAS CORR	0.800422		
			VAR CCEFF	0.008984		0.012107
			EFFICIENCY	100.00		100.00
EFF(M/N)	89.02		69.49			
10	7	5	1	0.192773	2	0.058010
			2	0.093745	3	0.065047
			3	0.130120	4	0.075791
			5	0.140577	5	0.104974
			6	0.092798	6	0.120631
			7	0.349986	7	0.648656
			BIAS CORR	0.800771		
			VAR CCEFF	0.009004		0.012113
			EFFICIENCY	99.77		99.95
			10	7	5	1
2	0.093583	4				0.113000
3	0.130752	5				0.104585
5	0.187279	6				0.121567
7	0.395111	7				0.648874
BIAS CORR	0.800410					
VAR CCEFF	0.009025					0.012128
EFFICIENCY	99.54		99.82			
10	7	4	1	0.224290	3	0.146413
			3	0.190323	5	0.146232
			5	0.188153	6	0.119485
			7	0.397234	7	0.651629

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR CCEFF		0.012153
				EFFICIENCY	99.01	99.62
10	7	3	1	0.254256	2	0.146904
			4	0.296551	5	0.206393
			7	0.449193	7	0.710566
				BIAS CORR		
				VAR CCEFF		0.012187
				EFFICIENCY	97.34	99.34
10	7	2	2	0.409595	4	0.279187
			7	0.590405	7	0.771784
				BIAS CORR		
				VAR CCEFF		0.012331
				EFFICIENCY	89.73	98.18
10	7	1	6	1.000000	7	0.985931
				BIAS CORR		
				VAR CCEFF		0.013103
				EFFICIENCY	68.96	92.40
10	6	6	1	0.203714	1	0.025762
			2	0.100705	2	0.051252
			3	0.092871	3	0.068185
			4	0.096335	4	0.097627
			5	0.095105	5	0.114382
			6	0.411189	6	0.792656
				BIAS CORR		
				VAR CCEFF		0.014199
				EFFICIENCY	100.00	100.00
				EFF(M/N)		59.25
10	6	5	1	0.204113	2	0.070233
			2	0.101161	3	0.068147
			3	0.092567	4	0.097692
			4	0.141984	5	0.114349
			6	0.460175	6	0.783148
				BIAS CORR		
				VAR CCEFF		0.014207
				EFFICIENCY	99.77	99.94

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE			
10	6	4	1	0.204677	2	0.097568			
			2	0.138631	4	0.136683			
			4	0.195002	5	0.113944			
			6	0.461689	6	0.784363			
			BIAS CORR	0.765876					
			VAR CCEFF	0.009583		0.014224			
			EFFICIENCY	79.46		99.83			
10	6	3	1	0.239497	2	0.097741			
			3	0.243304	4	0.191009			
			6	0.517199	6	0.843599			
			BIAS CORR	0.767873					
			VAR CCEFF	0.009684		0.014255			
			EFFICIENCY	98.42		99.61			
			10	6	2	1	0.330721	4	0.259767
6	0.669279	6				0.849152			
BIAS CORR	0.780692								
VAR CCEFF	0.010211					0.014358			
EFFICIENCY	93.34					98.90			
10	6	1				6	1.000000	6	1.068166
						BIAS CORR	0.936184		
			VAR CCEFF	0.013029		0.014863			
			EFFICIENCY	73.15		95.52			
10	5	5	1	0.219471	1	0.031488			
			2	0.106641	2	0.058175			
			3	0.102353	3	0.087512			
			4	0.099910	4	0.109718			
			5	0.471624	5	0.927462			
			BIAS CORR	0.725868					
			VAR CCEFF	0.010261		0.017164			
			EFFICIENCY	100.00		100.00			
			EFF (M/N)	77.95		49.00			
10	5	4	1	0.220060	2	0.081385			
			2	0.106737	3	0.087481			
			3	0.147120	4	0.110007			
			5	0.526083	5	0.928046			

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		0.017181
				EFFICIENCY		99.93
10	5	3	1	0.255626	2	0.116513
			3	0.215215	4	0.160106
			5	0.529159	5	0.929147
				BIAS CORR		
				VAR COEFF		0.017208
				EFFICIENCY		99.77
10	5	2	1	0.320395	3	0.203536
			5	0.674605	5	0.990864
				BIAS CORR		
				VAR COEFF		0.017262
				EFFICIENCY		99.46
10	5	1	5	1.000000	5	1.157476
				BIAS CORR		
				VAR COEFF		0.017612
				EFFICIENCY		97.48
10	4	4	1	0.240790	1	0.038561
			2	0.117535	2	0.074203
			3	0.110085	3	0.105109
			4	0.531590	4	1.042723
				BIAS CORR		
				VAR COEFF		0.021707
				EFFICIENCY		100.00
				EFF/M/N		38.76
10	4	3	1	0.241606	2	0.102716
			2	0.162188	3	0.105084
			4	0.596706	4	1.093592
				BIAS CORR		
				VAR COEFF		0.021726
				EFFICIENCY		99.91
10	4	2	1	0.315869	2	0.144953
			4	0.684131	4	1.155188
				BIAS CORR		

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY	0.011520 97.93	0.021764 99.74
10	4	1	4	BIAS CORR VAR CCEFF EFFICIENCY	1.000000 0.789313 0.013700 82.34	1.266925 0.021990 98.71
10	3	3	1		0.273183	0.051304
			2		0.131905	0.096667
			3		0.594912	1.297017
				BIAS CORR VAR CCEFF EFFICIENCY EFF(M/N)	0.628256 0.012822 100.00 62.38	0.029488 100.00 28.53
10	3	2	1		0.317580	0.134539
			3		0.682420	1.298242
				BIAS CORR VAR CCEFF EFFICIENCY	0.670619 0.012918 99.26	0.029522 99.89
10	3	1	3	BIAS CORR VAR CCEFF EFFICIENCY	1.000000 0.707219 0.014831 86.46	1.413790 0.029652 99.45
10	2	2	1		0.328460	0.075049
			2		0.671540	1.986062
				BIAS CORR VAR CCEFF EFFICIENCY EFF(M/N)	0.561662 0.015495 100.00 51.62	0.045825 100.00 18.36
10	2	1	2	BIAS CORR VAR CCEFF EFFICIENCY	1.000000 0.608441 0.016791 71.14	1.643544 0.045897 99.84
10	1	1	1	BIAS CORR	1.000000 0.466022	2.149872

GAH/MATH/68-1

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF		0.100140
				EFFICIENCY		100.00
				EFF(M/N)		8.40



TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE	
2	2	2	1	0.459723	1	0.244614	
			2	0.540277	2	0.774364	
				BIAS CORR	0.918019		
				VAR CCEFF	0.032256		0.035803
				EFFICIENCY	100.00		100.00
		EFF(M/N)	100.00		100.00		
2	2	1	2	1.000000	2	0.951824	
				BIAS CORR	1.050614		
				VAR CCEFF	0.042006		0.038056
				EFFICIENCY	76.79		94.08
2	1	1	1	1.000000	1	1.312008	
				BIAS CORR	0.762191		
				VAR CCEFF	0.045723		0.078705
				EFFICIENCY	100.00		100.00
		EFF(M/N)	70.55		45.49		
3	3	3	1	0.319711	1	0.116553	
			2	0.282679	2	0.272793	
			3	0.397610	3	0.599028	
				BIAS CORR	0.923046		
				VAR CCEFF	0.021440		0.022958
				EFFICIENCY	100.00		100.00
				EFF(M/N)	100.00		100.00
3	3	2	1	0.455215	2	0.351113	
			3	0.544785	3	0.607115	
				BIAS CORR	0.974410		
				VAR CCEFF	0.022783		0.023313
		EFFICIENCY	94.11		98.48		
3	3	1	2	1.000000	3	0.891780	
				BIAS CORR	0.909138		
				VAR CCEFF	0.030113		0.026157
		EFFICIENCY	71.20		87.63		
3	2	2	1	0.350026	1	0.172778	
			2	0.619974	2	0.969099	
				BIAS CORR	0.825372		
		VAR CCEFF	0.029768		0.035647		

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				83.21		64.40
3	2	1	2	1.000000	2	1.099943
				0.909138		
				0.030113		0.036433
				85.57		97.84
3	1	1	1	1.000000	1	1.451975
				0.688717		
				0.037332		0.078705
				100.00		100.00
				57.43		29.17
4	4	4	1	0.252798	1	0.069526
			2	0.196806	2	0.153208
			3	0.233901	3	0.257682
			4	0.316435	4	0.491966
				0.925517		
				0.016045		0.016855
				100.00		100.00
				100.00		100.00
4	4	3	1	0.330161	2	0.201665
			3	0.345949	3	0.258694
			4	0.323890	4	0.494745
				0.930564		
				0.016474		0.016957
				97.37		99.40
4	4	2	2	0.546729	3	0.410330
			4	0.453271	4	0.510405
				0.983632		
				0.018189		0.017554
				88.21		96.02
4	4	1	3	1.000000	4	0.857331
				0.986178		
				0.023429		0.020574
				68.48		81.92

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
4	3	3	1	0.284453	1	0.092567
			2	0.218911	2	0.201671
			3	0.496635	2	0.783694
			BIAS CORR	0.854238		
			VAR CCEFF	0.018112		0.022854
			EFFICIENCY	100.00		100.00
			EFF(M/N)	88.59		73.75
4	3	2	1	0.371557	2	0.266673
			3	0.628443	3	0.789007
			BIAS CORR	0.857896		
			VAR CCEFF	0.018645		0.023036
			EFFICIENCY	97.14		99.21
			BIAS CORR	0.986178		
			VAR CCEFF	0.023429		0.024090
EFFICIENCY	77.30		94.87			
4	3	1	3	1.000000	2	1.014016
			BIAS CORR	0.986178		
			VAR CCEFF	0.023429		0.024090
			EFFICIENCY	77.30		94.87
			BIAS CORR	0.766383		
			VAR CCEFF	0.022127		0.035604
			EFFICIENCY	100.00		100.00
EFF(M/N)	72.51		47.34			
4	2	2	1	0.343744	1	0.136618
			2	0.656256	2	1.096552
			BIAS CORR	0.766383		
			VAR CCEFF	0.022127		0.035604
			EFFICIENCY	100.00		100.00
			EFF(M/N)	72.51		47.34
			BIAS CORR	0.832098		
VAR CCEFF	0.024926		0.036001			
EFFICIENCY	88.77		98.90			
4	1	1	1	1.000000	1	1.560249
			BIAS CORR	0.640923		
			VAR CCEFF	0.032331		0.078705
			EFFICIENCY	100.00		100.00
			EFF(M/N)	49.63		21.42
			BIAS CORR	0.213129		
			VAR CCEFF	0.152020		0.099777
EFFICIENCY	0.171068		0.159188			
EFF(M/N)	0.199843		0.237233			

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
			5	0.263940	5	0.419562
			BIAS CORR	0.927090		
			VAR CCEFF	0.012814		0.013303
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
5	5	4	1	0.216023	2	0.133269
			2	0.231841	3	0.159376
			4	0.284746	4	0.237810
			5	0.267390	5	0.420764
			BIAS CORR	0.927565		
			VAR CCEFF	0.013011		0.013343
			EFFICIENCY	98.48		99.70
5	5	3	1	0.273924	2	0.206718
			3	0.381378	4	0.316894
			5	0.344698	5	0.425582
			BIAS CORR	0.926398		
			VAR CCEFF	0.013337		0.013514
			EFFICIENCY	96.08		98.44
5	5	2	2	0.545597	3	0.406525
			5	0.454403	5	0.525504
			BIAS CORR	0.970321		
			VAR CCEFF	0.014942		0.014005
			EFFICIENCY	85.75		94.99
5	5	1	3	1.000000	5	0.834163
			BIAS CORR	0.910207		
			VAR CCEFF	0.019452		0.017274
			EFFICIENCY	65.87		77.02
5	4	4	1	0.232709	1	0.058460
			2	0.165292	2	0.124258
			3	0.184587	3	0.196421
			4	0.417412	4	0.664390
			BIAS CORR	0.870784		
			VAR CCEFF	0.014008		0.016787
			EFFICIENCY	100.00		100.00
			EFF(M/N)	91.47		79.25

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE			
5	4	3	1	0.236112	2	0.166262			
			2	0.251698	3	0.196790			
			4	0.512190	4	0.666643			
			BIAS CORR		0.870501				
			VAR CCEFF		0.014239		0.016850		
			EFFICIENCY		98.38		99.63		
			5	4	2	1	0.366680	2	0.257666
4	0.633320	4				0.770635			
BIAS CORR		0.878905							
VAR CCEFF		0.015003					0.017111		
EFFICIENCY		93.37					98.11		
5	4	1				3	1.000000	4	0.964482
						BIAS CORR		0.910207	
			VAR CCEFF		0.019452		0.018255		
			EFFICIENCY		72.02		91.76		
			5	3	3	1	0.265005	1	0.077649
2	0.185996	2				0.163384			
3	0.548999	3				0.906926			
BIAS CORR		0.805416							
VAR CCEFF		0.016010					0.022819		
EFFICIENCY		100.00					100.00		
EFF(M/N)		80.04					58.30		
5	3	2	1	0.332961	2	0.215413			
			3	0.667039	3	0.910620			
			BIAS CORR		0.808967				
			VAR CCEFF		0.016311		0.022929		
			EFFICIENCY		98.16		99.52		
5	3	1	3	1.000000	2	1.098652			
			BIAS CORR		0.910207				
			VAR CCEFF		0.019452		0.023479		
			EFFICIENCY		82.31		97.19		
5	2	2	1	0.322878	1	0.114330			
			2	0.677122	2	1.193166			
			BIAS CORR		0.723884				
			VAR CCEFF		0.019702		0.035585		

TABLE 1

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				EFF(M/N)		37.38
5	2	1	2	1.000000	2	1.282010
				BIAS CORR		0.035825
				VAR CCEFF		99.33
				EFFICIENCY		
5	1	1	1	1.000000	1	1.649762
				BIAS CORR		0.078705
				VAR CCEFF		100.00
				EFFICIENCY		16.90
				EFF(M/N)		
6	6	6	1	0.186616	1	0.033859
			2	0.124673	2	0.070839
			3	0.135320	3	0.109928
			4	0.151619	4	0.155990
			5	0.174793	5	0.218063
			6	0.226979	6	0.367100
				BIAS CORR		0.010983
				VAR CCEFF		100.00
				EFFICIENCY		100.00
				EFF(M/N)		
6	6	5	1	0.188047	2	0.095570
			2	0.183575	3	0.109943
			4	0.223571	4	0.156174
			5	0.175977	5	0.218387
			6	0.228830	6	0.367705
				BIAS CORR		0.011002
				VAR CCEFF		99.83
				EFFICIENCY		
6	6	4	1	0.231452	2	0.142795
			3	0.290430	4	0.214244
			5	0.246803	5	0.219325
			6	0.231315	6	0.369652
				BIAS CORR		0.011014
				VAR CCEFF		99.27
				EFFICIENCY		

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE		
6	6	3	1	0.280361	3	0.265826		
			4	0.419926	5	0.292572		
			6	0.299713	6	0.374095		
				BIAS CORR	0.933424			
				VAR CCEFF	0.011304		0.011209	
				EFFICIENCY	94.34		97.98	
		6	6	2	2	0.447229	4	0.448109
5	0.552771				6	0.464620		
	BIAS CORR				0.925091			
				VAR CCEFF	0.012667		0.011684	
				EFFICIENCY	84.19		94.00	
6	6			1	4	1.000000	5	0.931202
						BIAS CORR	0.962716	
			VAR CCEFF		0.016311		0.014937	
			EFFICIENCY		65.38		73.53	
6	5	5	1	0.200023	1	0.040672		
			2	0.133353	2	0.084869		
			3	0.144376	3	0.131330		
			4	0.160699	4	0.184821		
			5	0.361543	5	0.580110		
			BIAS CORR	0.881479				
			VAR CCEFF	0.011436		0.013257		
			EFFICIENCY	100.00		100.00		
			EFF(M/N)	93.25		82.85		
		6	5	4	1	0.201667	2	0.114615
2	0.196308				3	0.131391		
4	0.237588				4	0.185100		
5	0.364438				5	0.581216		
	BIAS CORR				0.882387			
	VAR CCEFF			0.011543		0.013283		
	EFFICIENCY			99.07		99.80		
6	5	3	1	0.248296	2	0.171231		
			3	0.309919	4	0.254753		
			5	0.441785	5	0.584637		
				BIAS CORR	0.884039			

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				0.011695		0.013372
				97.79		99.14
6	5	2	2	0.447229	3	0.318286
			5	0.552771	5	0.676991
				0.925091		
				0.012667		0.013579
				90.28		97.63
6	5	1	4	1.000000	5	0.931202
				0.962716		
				0.016311		0.014937
				70.11		88.75
6	4	4	1	0.220466	1	0.050788
			2	0.146317	2	0.105659
			3	0.157173	3	0.161952
			4	0.176044	4	0.782508
				0.829231		
				0.012625		0.016761
				100.00		100.00
				84.47		65.53
6	4	3	1	0.222435	2	0.142871
			2	0.215012	3	0.162140
			4	0.562533	4	0.784280
				0.829764		
				0.012752		0.016803
				99.00		99.75
6	4	2	1	0.326465	2	0.213039
			4	0.673535	4	0.874711
				0.837492		
				0.013214		0.016938
				95.54		98.96
6	4	1	4	1.000000	4	1.038728
				0.962716		
				0.016311		0.017599
				77.40		95.24



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE	
6	3	3	1	0.252572	1	0.067361	
			2	0.165682	2	0.138814	
			3	0.581746	3	1.000471	
				BIAS CORR	0.768038		
				VAR CCEFF	0.014514		0.022803
				EFFICIENCY	100.00		100.00
				EFF(M/N)	73.47		48.17
6	3	2	1	0.310231	2	0.188304	
			3	0.684769	3	1.003187	
				BIAS CORR	0.771280		
				VAR CCEFF	0.014715		0.022877
				EFFICIENCY	98.64		99.68
6	3	1	3	1.000000	3	1.165912	
				BIAS CORR	0.857697		
				VAR CCEFF	0.017078		0.023215
				EFFICIENCY	84.49		98.22
6	2	2	1	0.309303	1	0.095030	
			2	0.690697	2	1.271804	
				BIAS CORR	0.691067		
				VAR CCEFF	0.017935		0.035576
				EFFICIENCY	100.00		100.00
				EFF(M/N)	59.46		30.87
6	2	1	2	1.000000	2	1.349183	
				BIAS CORR	0.741189		
				VAR CCEFF	0.019632		0.035736
				EFFICIENCY	91.35		99.55
6	1	1	1	1.000000	1	1.726659	
				BIAS CORR	0.579140		
				VAR CCEFF	0.026398		0.018705
				EFFICIENCY	100.00		100.00
				EFF(M/N)	40.40		13.95
7	7	7	1	0.167492	1	0.025806	
			2	0.106793	2	0.053241	
			3	0.112286	3	0.081214	
			4	0.122528	4	0.112303	

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 5.00

N	M	L	J	LOCATION	J	SCALE	
5	5	5	5	0.136329	5	0.149976	
			6	0.155586	6	0.201271	
			7	0.177691	7	0.327191	
			BIAS CORR		0.970976		
			VAR CORR		0.664136		0.664136
			EFFICIENCY		100.00		100.00
			EFFICIENCY		100.00		100.00
7	7	7	1	0.140330	1	0.077353	
			2	0.154256	2	0.091100	
			3	0.166519	3	0.112376	
			4	0.176888	4	0.149719	
			5	0.186976	5	0.201476	
			6	0.210697	6	0.327191	
			BIAS CORR		0.977916		
VAR CORR		0.664136		0.664136			
EFFICIENCY		99.89		99.89			
7	7	9	1	0.140573	1	0.107901	
			2	0.154721	2	0.127366	
			3	0.167780	3	0.150736	
			4	0.179450	4	0.200791	
			5	0.190800	5	0.327191	
			BIAS CORR		0.978125		
			VAR CORR		0.664136		0.664136
EFFICIENCY		99.61		99.61			
7	7	11	1	0.140810	1	0.141150	
			2	0.155155	2	0.200601	
			3	0.168791	3	0.327191	
			4	0.181710	4		
			BIAS CORR		0.977581		
			VAR CORR		0.664136		0.664136
			EFFICIENCY		99.55		99.55
7	7	13	1	0.141040	1	0.189729	
			2	0.156590	2	0.327191	
			3	0.171401	3		
			BIAS CORR		0.974771		
			VAR CORR		0.664136		0.664136
			EFFICIENCY		99.85		99.85

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM 1-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 4.00

n	M	L	i	LOCATION	i	SCALE			
7	7	2	2	0.445765	2	0.476709			
			6	0.554735	7	0.419050			
			BIAS CORR			0.720107			
			VAR CORR			0.010947		0.010007	
			EFFICIENCY			87.44		92.19	
7	7	1	5	1.000000	6	0.490816			
			BIAS CORR			1.001680			
			VAR CORR			0.014749		0.017745	
			EFFICIENCY			64.08		73.36	
			7	6	6	1	0.177100	1	0.030171
2	0.172410	2				0.047147			
3	0.170910	3				0.044416			
4	0.170114	4				0.130403			
5	0.167150	5				0.172411			
6	0.164771	6				0.510714			
BIAS CORR						0.800710			
VAR CORR						0.009640		0.010947	
EFFICIENCY						100.00		100.00	
EFFICIENCY						94.44		85.17	
7	6	6	1	0.170744	7	0.000000			
			2	0.167054	7	0.074414			
			3	0.174204	8	0.130403			
			4	0.163151	9	0.172411			
			5	0.171471	10	0.511576			
			BIAS CORR			0.870107			
			VAR CORR			0.009120		0.010947	
			EFFICIENCY			97.17		97.00	
			7	6	6	1	0.179664	1	0.172411
						2	0.143700	2	0.137440
3	0.271890	3				0.170210			
4	0.346444	4				0.515710			
BIAS CORR						0.800607			
VAR CORR			0.009400		0.011000				
EFFICIENCY			98.97		97.54				
7	6	1	1	0.254315	1	0.274711			

TABLE 1  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 7 TO 10)  
 SHAPE PARAMETER = 4.00

N	M	L		LOCATION		SCALE
7	6	2	1	0.391501	9	0.230979
			2	0.394007	8	0.922754
			BIAS CORR	0.076517		
			VAN CEFF	0.010029		0.011009
			EFFICIENCY	96.31		98.74
7	6	2	2	0.445265	4	0.360950
			4	0.444735	6	0.607104
			BIAS CORR	0.072107		
			VAN CEFF	0.010792		0.011117
			EFFICIENCY	98.15		96.89
7	6	1	3	1.000000	6	0.406816
			BIAS CORR	1.000000		
			VAN CEFF	0.012700		0.012700
			EFFICIENCY	67.02		89.71
7	5	3	1	0.171517	1	0.037700
			2	0.171009	2	0.074701
			3	0.171527	3	0.111702
			4	0.171800	4	0.148603
			5	0.172000	5	0.185504
			BIAS CORR	0.049107		
			VAN CEFF	0.010001		0.012211
			EFFICIENCY	100.00		100.00
			EFFICIENCY	87.36		70.61
7	5	4	1	0.172600	2	0.101101
			2	0.172676	3	0.137602
			3	0.170373	4	0.174103
			4	0.172400	5	0.210604
			BIAS CORR	0.048101		
			VAN CEFF	0.010070		0.012701
			EFFICIENCY	99.16		99.85
7	5	1	1	0.211270	1	0.147700
			2	0.210100	4	0.216001
			3	0.209377	5	0.247002
			BIAS CORR	0.048176		
			VAN CEFF	0.010010		0.012711
EFFICIENCY	98.16		99.45			

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	J	LOCATION	J	SCALE	
7	9	2	1	0.322029	2	0.264867	
			5	0.477929	5	0.778374	
			BIAS CORR		0.498541		
			VAR CORR		0.011277		0.013410
			EFFICIENCY		92.68		99.57
7	5	1	5	1.000000	5	0.448319	
			BIAS CORR		1.001404		
			VAR CORR		0.014749		0.014700
			EFFICIENCY		73.35		43.77
7	4	4	1	0.212107	1	0.049100	
			2	0.131969	2	0.047977	
			3	0.137417	3	0.135777	
			4	0.914914	4	0.873192	
			BIAS CORR		0.754084		
			VAR CORR		0.011694		0.016748
			EFFICIENCY		100.00		100.00
			EFFICIENCY		78.75		95.87
7	4	1	1	0.213669	2	0.126072	
			2	0.172177	1	0.135278	
			4	0.546631	4	0.874986	
			BIAS CORR		0.796830		
			VAR CORR		0.011674		0.016776
EFFICIENCY		99.29		94.87			
7	4	2	1	0.302564	2	0.181707	
			4	0.697436	4	0.454653	
			BIAS CORR		0.803793		
			VAR CORR		0.011777		0.016861
			EFFICIENCY		96.64		97.31
7	4	1	4	1.000000	4	1.001786	
			BIAS CORR		0.710799		
			VAR CORR		0.014339		0.017286
			EFFICIENCY		80.96		76.89
7	3	3	1	0.241919	1	0.084789	
			2	0.191084	2	0.121482	

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
7	3	2	1	0.664937	1	1.078377
			2	0.718019	2	0.022794
			3	0.013976		100.00
				100.00		41.02
			BIAS CORR	68.26		
			VAN COEFF			
			EFFICIENCY			
			EFF (M/L)			
7	3	1	1	0.275124	1	0.165971
			2	0.304971	2	1.078464
			3	0.740974		0.022947
				0.013921		99.77
			BIAS CORR	48.71		
			VAN COEFF			
			EFFICIENCY			
			EFF (M/L)			
7	3	1	1	1.000000	1	1.222641
			2	0.817901		0.021916
			3	0.019487		98.19
				98.09		
			BIAS CORR			
			VAN COEFF			
			EFFICIENCY			
			EFF (M/L)			
7	2	2	1	0.297760	1	0.081191
			2	0.300240	2	1.318596
			3	0.244541		0.035971
			4	0.014571		100.00
			BIAS CORR	100.00		76.74
			VAN COEFF			
			EFFICIENCY			
			EFF (M/L)			
7	2	1	1	1.000000	1	1.407681
			2	0.716564		0.035619
			3	0.018014		99.00
				97.00		
			BIAS CORR			
			VAN COEFF			
			EFFICIENCY			
			EFF (M/L)			
7	1	1	1	1.000000	1	1.746861
			2	0.857245		0.028100
			3	0.028460		100.00
				100.00		11.80
			BIAS CORR			
			VAN COEFF			
			EFFICIENCY			
			EFF (M/L)			
8	3	3	1	0.192989	1	0.027409
			2	0.091111	2	0.041480
			3	0.046244	3	0.067404
			4	0.173004	4	0.085474
			5	0.117141	5	0.111904
			6	0.123751	6	0.142481

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
4	4	1	1	0.140371	1	0.106770
			2	0.178701	2	0.295720
			BIAS CORR	0.928099		
			VAN LEFT	0.007902		0.008130
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		100.00
			0	0	7	1
			2	0.053320	3	0.062771
			3	0.143448	4	0.089947
			4	0.145721	5	0.111341
			5	0.174127	6	0.143084
			6	0.140967	7	0.186080
			7	0.178814	8	0.245424
			BIAS CORR	0.727409		
			VAN LEFT	0.000011		0.008144
			EFFICIENCY	47.61		47.93
4	4	6	1	0.154146	2	0.082748
			2	0.172091	4	0.170847
			4	0.213017	5	0.111327
			6	0.178277	6	0.143414
			7	0.141204	7	0.187177
			8	0.174708	8	0.246446
			BIAS CORR	0.727788		
VAN LEFT	0.008092		0.008190			
EFFICIENCY	47.13		47.75			
6	6	4	1	0.184856	2	0.148580
			2	0.204247	4	0.190076
			4	0.239306	6	0.143468
			7	0.174776	7	0.187474
			8	0.140814	8	0.247311
			BIAS CORR	0.411191		
			VAN LEFT	0.008114		0.008146
EFFICIENCY	48.37		47.37			
8	8	4	1	0.140369	2	0.145576
			3	0.248681	5	0.239771
			6	0.224227	7	0.245408
			8	0.278744	8	0.295670

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 4.00

n	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.927998	
				VAN COEFF	0.008271	0.008298
				EFFICIENCY	96.50	98.55
0	0	3	1	0.292723	4	0.31028
			5	0.458354	7	0.305437
			8	0.278221	8	0.300153
				BIAS CORR	0.933077	
				VAN COEFF	0.008706	0.008445
				EFFICIENCY	91.28	96.36
0	0	2	3	0.490897	5	0.478437
			7	0.900148	8	0.432437
				BIAS CORR	0.956204	
				VAN COEFF	0.004773	0.004900
				EFFICIENCY	82.51	91.54
0	0	1	5	1.000000	7	0.987717
				BIAS CORR	0.950577	
				VAN COEFF	0.012523	0.011194
				EFFICIENCY	63.74	72.60
0	7	7	1	0.160491	1	0.071148
			2	0.097604	2	0.047553
			3	0.100483	3	0.071722
			4	0.107618	4	0.097101
			5	0.117191	5	0.126848
			6	0.128741	7	0.161158
			7	0.281231	7	0.467904
				BIAS CORR	0.878877	
				VAN COEFF	0.008174	0.004124
				EFFICIENCY	100.00	100.00
				EFF (M/N)	49.29	87.28
0	7	6	1	0.171121	2	0.065031
			2	0.097888	3	0.071844
			3	0.150178	4	0.097181
			4	0.171117	5	0.127402
			5	0.178449	6	0.161528
			7	0.288404	7	0.467866
				BIAS CORR	0.874767	



TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

n	M	L		LOCATION		SCALE			
				0.008411		0.009332			
			VAN COEFF	99.59		99.92			
			EFFICIENCY						
8	7	5	1	0.161811	2	0.094047			
			2	0.134355	4	0.131615			
			4	0.223790	5	0.126921			
			6	0.175637	6	0.161944			
			7	0.244404	7	0.466700			
				BIAS CORR		0.895144			
				VAN COEFF		0.008451		0.009351	
			EFFICIENCY		99.72				
8	7	4	1	0.194663	3	0.164724			
			3	0.214165	5	0.171786			
			5	0.249731	6	0.162079			
			7	0.346041	7	0.470876			
				BIAS CORR		0.896248			
				VAN COEFF		0.008521		0.009351	
				EFFICIENCY		99.30		99.29	
8	7	3	1	0.277561	3	0.171069			
			4	0.376731	5	0.267570			
			7	0.469806	7	0.947723			
				BIAS CORR		0.748940			
				VAN COEFF		0.008767		0.009478	
				EFFICIENCY		99.59		99.30	
			8	7	2	3	0.449837	4	0.394481
7	0.900148	7				0.613740			
	BIAS CORR					0.456704			
	VAN COEFF					0.009073		0.009723	
	EFFICIENCY					86.89		99.50	
8	7	1				5	1.000000	7	0.887914
							BIAS CORR		0.490977
				VAN COEFF		0.012523		0.011198	
				EFFICIENCY		66.89		89.27	
			8	6	6	1	0.170480	1	0.077709
						2	0.104655	2	0.055788
						3	0.106817	3	0.062865

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE			
6	6	9	4	0.114663	4	0.113773			
			5	0.123334	5	0.145646			
			6	0.386192	6	0.624238			
			BIAS CORR			0.856979			
			VAR COEFF			0.068929		0.010935	
			EFFICIENCY			100.00		100.00	
			EFF (M/N)			89.39		74.43	
6	6	9	1	0.171499	2	0.071103			
			2	0.104332	3	0.082836			
			3	0.157484	4	0.113846			
			4	0.183028	5	0.145727			
			5	0.381457	6	0.624800			
			BIAS CORR			0.857181			
			VAR COEFF			0.068968		0.010949	
EFFICIENCY			99.56		99.91				
6	6	4	1	0.172459	2	0.104627			
			2	0.148784	4	0.160919			
			4	0.237264	5	0.145787			
			6	0.441497	6	0.626232			
			BIAS CORR			0.857503			
			VAR COEFF			0.069014		0.010970	
			EFFICIENCY			99.05		99.60	
6	6	3	1	0.208446	2	0.147699			
			3	0.285018	3	0.209998			
			4	0.506936	6	0.628889			
			BIAS CORR			0.859310			
			VAR COEFF			0.069162		0.011026	
			EFFICIENCY			97.46		99.17	
			6	6	2	2	0.349112	4	0.311004
6	0.606888	6				0.706207			
BIAS CORR						0.857230			
VAR COEFF						0.069221		0.011106	
EFFICIENCY						90.91		97.93	
6	6	1				9	1.000000	6	0.968603
						BIAS CORR			0.950577
			VAR COEFF			0.012523		0.011787	

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	71.30	91.22
6	5	5	1	0.185517	1	0.032769
			2	0.112201	2	0.066122
			3	0.115930	3	0.100227
			4	0.122346	4	0.133757
			5	0.464003	5	0.780310
				BIAS CORR		
				0.815637		
				VAR COEFF		0.013227
				EFFICIENCY		100.00
				EFF (M/N)		61.53
6	5	4	1	0.186333	2	0.090680
			2	0.112527	3	0.100711
			3	0.122180	4	0.133867
			5	0.528260	5	0.781056
				BIAS CORR		
				0.815704		
				VAR COEFF		0.013242
				EFFICIENCY		99.69
6	5	3	1	0.223040	2	0.131224
			2	0.244348	4	0.190400
			5	0.532612	5	0.782932
				BIAS CORR		
				0.818572		
				VAR COEFF		0.013278
				EFFICIENCY		99.61
6	5	2	1	0.297300	2	0.232445
			5	0.702700	5	0.896475
				BIAS CORR		
				0.828700		
				VAR COEFF		0.013350
				EFFICIENCY		99.03
6	5	1	5	1.000000	5	1.091443
				BIAS CORR		
				0.950577		
				VAR COEFF		0.013854
				EFFICIENCY		99.44
6	4	4	1	0.206006	1	0.040680
			2	0.124407	2	0.082844
			3	0.126869	3	0.122700

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L		LOCATION		SCALE
6	4	3		0.542719	4	0.947019
			BIAS CORR	0.768690		
			VAR COEFF	0.015784		0.016741
			EFFICIENCY	100.00		100.00
			EFF(M/N)	74.01		48.61
6	4	2	1	0.707003	2	0.113359
			2	0.170335	3	0.122775
			4	0.616167	4	0.946173
			BIAS CORR	0.779465		
			VAR COEFF	0.010843		0.016723
EFFICIENCY	94.46		99.87			
6	4	2	1	0.786516	2	0.163124
			4	0.713454	4	1.019820
			BIAS CORR	0.775820		
			VAR COEFF	0.011085		0.016019
			EFFICIENCY	97.29		99.54
6	4	1	4	1.000000	4	1.146164
			BIAS CORR	0.870941		
			VAR COEFF	0.012984		0.017117
			EFFICIENCY	83.06		97.80
6	3	3	1	0.237545	1	0.053448
			2	0.141791	2	0.108456
			3	0.620664	3	1.140363
			BIAS CORR	0.713086		
			VAR COEFF	0.012471		0.022788
EFFICIENCY	100.00		100.00			
EFF(M/N)	64.00		39.71			
6	3	2	1	0.784328	2	0.144021
			3	0.715672	3	1.142220
			BIAS CORR	0.715812		
			VAR COEFF	0.012587		0.022628
			EFFICIENCY	99.08		99.83
6	3	1	3	1.000000	3	1.272139
			BIAS CORR	0.786078		
			VAR COEFF	0.014208		0.022494

TABLE 1  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	87.77	99.11
8	2	2	1	0.292683	1	0.079143
			2	0.707317	2	1.396947
				BIAS CORR	0.642473	
				VAR COEFF	0.015481	0.037567
				EFFICIENCY	100.00	100.00
				EFF(M/N)	51.56	22.88
8	2	1	2	1.000000	2	1.459187
				BIAS CORR	0.685313	
				VAR COEFF	0.016744	0.035653
				EFFICIENCY	92.45	99.76
8	1	1	1	1.000000	1	1.855459
				BIAS CORR	0.938950	
				VAR COEFF	0.072861	0.078705
				EFFICIENCY	100.00	100.00
				EFF(M/N)	34.91	10.34
4	4	4	1	0.141459	1	0.016601
			2	0.093199	2	0.033631
			3	0.084469	3	0.050255
			4	0.088984	4	0.067612
			5	0.095464	5	0.086779
			6	0.103450	6	0.108783
			7	0.113773	7	0.136155
			8	0.128002	8	0.174236
			9	0.161701	9	0.270207
				BIAS CORR	0.929209	
				VAR COEFF	0.007084	0.007204
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	100.00
4	4	0	1	0.141855	2	0.046153
			2	0.083272	3	0.050219
			3	0.124326	4	0.067641
			4	0.143100	5	0.086764
			6	0.103100	6	0.108863
			7	0.114587	7	0.136194
			8	0.128068	8	0.174325

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE			
9	9	7	9	0.161690	9	0.270337			
			BIAS CORR	0.929722					
			VAR CCEFF	0.007109		0.007207			
			EFFICIENCY	99.72		99.95			
			1	0.142204	2	0.066067			
			2	0.117332	4	0.096406			
			4	0.183652	6	0.086561			
			6	0.152114	8	0.109306			
			7	0.113497	9	0.126046			
			8	0.129164		0.174629			
9	0.162075		0.270619						
	BIAS CORR		0.930434						
	VAR CCEFF		0.007133		0.007216				
	EFFICIENCY		99.38		99.84				
9	9	6	1	0.142899	2	0.066169			
			2	0.117888	4	0.138060			
			4	0.184607	6	0.152684			
			6	0.219769	7	0.135906			
			8	0.176133	8	0.175216			
			9	0.162705	9	0.271186			
				BIAS CORR		0.929138			
				VAR CCEFF		0.007170		0.007233	
				EFFICIENCY		98.87		99.60	
			9	9	5	1	0.170614	3	0.118995
3	0.180361	5				0.174129			
5	0.149048	7				0.187745			
7	0.246161	8				0.175026			
9	0.203816	9				0.272366			
	BIAS CORR					0.927853			
	VAR CCEFF					0.007244		0.007261	
	EFFICIENCY					97.86		99.21	
9	9	4				1	0.197022	4	0.186152
						4	0.298556	6	0.230159
			7	0.296801	8	0.233433			
			9	0.207621	9	0.274568			
				BIAS CORR		0.932139			
				VAR CCEFF		0.007383		0.007331	

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)  
 SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	96.01	98.27
9	9	3	1	0.231667	4	0.240749
			5	0.397711	7	0.350421
			8	0.371022	9	0.335211
			BIAS CORR	0.908369		
			VAR CCEFF	0.007830		0.007494
			EFFICIENCY	90.54		96.13
9	9	2	3	0.498609	6	0.501925
			8	0.501391	9	0.397623
			BIAS CORR	0.953332		
			VAR CCEFF	0.008665		0.007928
			EFFICIENCY	81.82		90.86
9	9	1	6	1.000000	6	0.872689
			BIAS CORR	0.983163		
			VAR CCEFF	0.011218		0.010045
			EFFICIENCY	63.19		71.71
9	8	8	1	0.147446	1	0.018669
			2	0.086757	2	0.037944
			3	0.087771	3	0.056117
			4	0.093035	4	0.076688
			5	0.098793	5	0.096477
			6	0.107707	6	0.122346
			7	0.117401	7	0.151260
			8	0.261091	8	0.427672
			BIAS CORR	0.898611		
			VAR CCEFF	0.007390		0.008119
			EFFICIENCY	100.00		100.00
			EFF(M/N)	95.93		88.73
9	8	7	1	0.147879	7	0.052029
			2	0.086844	3	0.056080
			3	0.129459	4	0.076725
			5	0.148615	5	0.096469
			6	0.107355	6	0.122444
			7	0.118267	7	0.151312
			8	0.261581	8	0.427908
			BIAS CORR	0.899051		

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE			
				0.007412		0.008123			
				99.70		99.55			
9	8	6	1	0.148253	2	0.074277			
			2	0.122250	4	0.106362			
			4	0.191251	5	0.096257			
			6	0.158105	6	0.122954			
			7	0.117095	7	0.151164			
			8	0.263045	8	0.428540			
				BIAS CORR	0.899713				
				VAR CCEFF	0.007438		0.008133		
		EFFICIENCY	99.36		99.82				
9	8	5	1	0.148994	2	0.074410			
			2	0.122843	4	0.155220			
			4	0.192268	6	0.171233			
			6	0.223832	7	0.151044			
			8	0.312062	8	0.429789			
				BIAS CORR	0.898249				
				VAR CCEFF	0.007477		0.008154		
					EFFICIENCY	98.84		99.56	
9	8	4	1	0.178107	3	0.133948			
			3	0.230484	5	0.200884			
			6	0.275986	7	0.205482			
			8	0.315428	8	0.430847			
				BIAS CORR	0.900810				
				VAR CCEFF	0.007562		0.008192		
					EFFICIENCY	97.73		99.11	
			9	8	3	1	0.231667	4	0.204608
5	0.397311	6				0.257954			
8	0.371022	8				0.498153			
	BIAS CORR	0.908369							
	VAR CCEFF	0.007830					0.008277		
		EFFICIENCY				94.38		98.09	
9	8	2				3	0.498609	5	0.387489
						8	0.501391	8	0.564556
				BIAS CORR	0.953332				
				VAR CCEFF	0.008665		0.008508		



TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				85.27		95.42
			EFFICIENCY			
9	8	1	6	1.000000	6	0.872689
			BIAS CORR	0.982163		
			VAR CCEFF	0.011218		0.010045
			EFFICIENCY	65.88		80.82
9	7	7	1	0.155627	1	0.021433
			2	0.091152	2	0.042792
			3	0.093432	3	0.065792
			4	0.096796	4	0.084597
			5	0.105203	5	0.112335
			6	0.111773	6	0.136956
			7	0.346517	7	0.569831
			BIAS CORR	0.865778		
			VAR CCEFF	0.007800		0.009313
			EFFICIENCY	100.00		100.00
			EFF(M/N)	90.89		77.35
9	7	6	1	0.156091	2	0.058967
			2	0.091252	3	0.065754
			3	0.136595	4	0.084644
			5	0.156788	5	0.112336
			6	0.111416	6	0.137077
			7	0.347858	7	0.570155
			BIAS CORR	0.866170		
			VAR CCEFF	0.007823		0.009319
			EFFICIENCY	99.70		99.94
9	7	5	1	0.156712	2	0.065072
			2	0.091313	4	0.122349
			3	0.137292	5	0.112111
			5	0.214410	6	0.137702
			7	0.400273	7	0.570707
			BIAS CORR	0.865561		
			VAR CCEFF	0.007853		0.009333
			EFFICIENCY	99.33		99.79
9	7	4	1	0.185882	3	0.152428
			3	0.196210	5	0.157495
			5	0.215468	6	0.136652

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
			7	0.402440	7	0.573079
			BIAS CORR	0.868204		
			VAR CCEFF	0.007896		0.009361
			EFFICIENCY	98.78		99.49
9	7	3	1	0.215010	2	0.153115
			4	0.324424	5	0.228783
			7	0.460566	7	0.638555
			BIAS CORR	0.871671		
			VAR CCEFF	0.008061		0.009405
			EFFICIENCY	96.76		99.02
9	7	2	2	0.393109	4	0.204058
			7	0.606891	7	0.704485
			BIAS CORR	0.902798		
			VAR CCEFF	0.008739		0.009558
			EFFICIENCY	89.26		97.44
9	7	1	6	1.000000	7	0.945679
			BIAS CORR	0.982163		
			VAR CCEFF	0.011218		0.010432
			EFFICIENCY	69.53		89.27
9	6	6	1	0.166784	1	0.024794
			2	0.098080	2	0.051234
			3	0.097681	3	0.073101
			4	0.104921	4	0.102695
			5	0.109617	5	0.126524
			6	0.423415	6	0.708691
			BIAS CORR	0.830103		
			VAR CCEFF	0.008344		0.010926
			EFFICIENCY	100.00		100.00
			EFF(M/N)	84.96		65.93
9	6	5	1	0.166772	2	0.069953
			2	0.098565	3	0.073064
			3	0.097543	4	0.102762
			4	0.158036	5	0.126534
			6	0.479085	6	0.709207
			BIAS CORR	0.829934		
			VAR CCEFF	0.008371		0.010734

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		99.93
9	6	4	1	0.167300	2	0.098974
			2	0.137675	4	0.144681
			4	0.214207	5	0.126300
			6	0.480818	6	0.710517
				BIAS CORR		
				0.830897		
				VAR CCEFF		0.010952
				0.008402		
				EFFICIENCY		99.77
9	6	3	1	0.200235	2	0.095225
			3	0.257688	4	0.205665
			6	0.542077	6	0.775424
				BIAS CORR		
				0.832961		
				VAR CCEFF		0.010988
				0.008509		
				EFFICIENCY		99.44
9	6	2	2	0.363720	4	0.276642
			6	0.636272	6	0.781894
				BIAS CORR		
				0.866459		
				VAR CCEFF		0.011088
				0.009037		
				EFFICIENCY		98.54
9	6	1	6	1.000000	6	1.018161
				BIAS CORR		
				0.982163		
				VAR CCEFF		0.011629
				0.011218		
				EFFICIENCY		93.96
9	5	5	1	0.181010	1	0.030082
			2	0.105391	2	0.053483
			3	0.107646	3	0.090946
			4	0.110975	4	0.118287
			5	0.494979	5	0.852210
				BIAS CORR		
				0.790550		
				VAR CCEFF		0.013221
				0.009080		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		54.49
				78.07		
9	5	4	1	0.181627	2	0.082205
			2	0.105553	3	0.090917
			3	0.157454	4	0.118382

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
			5	0.555366	5	0.852865
			BIAS CORR	0.790750		
			VAR CCEFF	0.009112		0.013237
			EFFICIENCY	99.66		95.91
9	5	3	1	0.215531	2	0.118362
			3	0.225743	4	0.170604
			5	0.558726	5	0.854242
			BIAS CORR	0.793740		
			VAR CCEFF	0.009170		0.013259
			EFFICIENCY	99.02		99.71
9	5	2	1	0.280584	3	0.212267
			5	0.719416	5	0.920585
			BIAS CORR	0.202288		
			VAR CCEFF	0.009516		0.013314
			EFFICIENCY	95.42		99.30
9	5	1	5	1.000000	5	1.097582
			BIAS CORR	0.911094		
			VAR CCEFF	0.011347		0.013670
			EFFICIENCY	80.02		96.72
9	4	4	1	0.201340	1	0.037120
			2	0.117531	2	0.075332
			3	0.117484	3	0.110153
			4	0.563646	4	1.009594
			BIAS CORR	0.45461		
			VAR CCEFF	0.00125		0.016736
			EFFICIENCY	100.00		100.00
			EFF(M/N)	70.02		43.04
9	4	3	1	0.202128	2	0.103390
			2	0.164754	3	0.110135
			4	0.633118	4	1.010556
			BIAS CORR	0.746253		
			VAR CCEFF	0.010170		0.016753
			EFFICIENCY	99.56		99.90
4	4	2	1	0.274924	2	0.147246
			4	0.725076	4	1.075585

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR CCEFF		
				EFFICIENCY		
9	4	1	4	1.000000	4	1.192153
				0.838818		0.017014
				0.011972		98.36
				64.58		
9	3	3	1	0.232652	1	0.049296
			2	0.134150	2	0.098343
			3	0.633198	3	1.196378
				0.691878		0.022785
				0.011729		100.00
				100.00		31.62
				60.44		
9	3	2	1	0.276205	2	0.135645
			3	0.723795	3	1.197729
				0.694414		0.022816
				0.011824		99.86
				99.20		
9	3	1	3	1.000000	3	1.316296
				0.759707		0.022941
				0.013241		99.32
				88.58		
9	2	2	1	0.287225	1	0.072253
			2	0.712775	2	1.448955
				0.623632		0.035565
				0.014580		100.00
				100.00		20.26
				48.62		
9	2	1	2	1.000000	2	1.505894
				0.664058		0.035632
				0.015713		99.81
				92.79		
9	1	1	1	1.000000	1	1.910907

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		0.523312
				VAR CCEFF		0.021554
				EFFICIENCY		100.00
				EFF(M/N)		32.89
10	10	10	1	0.132107	1	0.013804
			2	0.075473	2	0.027795
			3	0.075455	2	0.041225
			4	0.078472	4	0.055099
			5	0.083184	5	0.069820
			6	0.088926	6	0.086463
			7	0.096162	7	0.105593
			8	0.105171	8	0.129688
			9	0.117757	9	0.163339
			10	0.147291	10	0.249068
				BIAS CORR		0.929373
				VAR CCEFF		0.006376
				EFFICIENCY		100.00
				EFF(M/N)		100.00
10	10	9	1	0.132306	2	0.038274
			2	0.075922	3	0.041190
			3	0.074958	4	0.055134
			4	0.117966	5	0.069764
			6	0.132235	6	0.086570
			7	0.094873	7	0.105558
			8	0.106675	8	0.129764
			9	0.117367	9	0.163386
			10	0.147697	10	0.249156
				BIAS CORR		0.929586
				VAR CCEFF		0.006389
				EFFICIENCY		99.79
10	10	8	1	0.132782	2	0.054407
			2	0.075118	4	0.079090
			3	0.110769	5	0.069322
			5	0.169811	6	0.087428
			7	0.141245	7	0.104744
			8	0.103309	8	0.130417
			9	0.119243	9	0.163314
			10	0.147723	10	0.249373

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		0.929808
				VAR CCEFF		0.006404
				EFFICIENCY		99.56
10	10	7	1	0.132872	2	0.054464
			2	0.105760	4	0.111644
			4	0.162239	6	0.123459
			6	0.182713	7	0.103665
			8	0.150571	8	0.131666
			9	0.117291	9	0.163020
			10	0.148553	10	0.249810
				BIAS CORR		0.930146
				VAR CCEFF		0.006424
				EFFICIENCY		99.26
10	10	6	1	0.156994	3	0.097570
			3	0.160148	5	0.142521
			5	0.171385	7	0.149445
			7	0.200873	8	0.128156
			9	0.161823	9	0.165014
			10	0.148776	10	0.250092
				BIAS CORR		0.930986
				VAR CCEFF		0.006459
				EFFICIENCY		98.72
10	10	5	1	0.159132	4	0.151565
			3	0.196099	6	0.178500
			6	0.229914	8	0.179888
			8	0.228268	9	0.163743
			10	0.186588	10	0.251753
				BIAS CORR		0.928997
				VAR CCEFF		0.006537
				EFFICIENCY		97.53
10	10	4	1	0.182954	4	0.190260
			4	0.310560	7	0.261643
			8	0.316125	9	0.215308
			10	0.190361	10	0.253747
				BIAS CORR		0.931507
				VAR CCEFF		0.006688
				EFFICIENCY		95.34

TABLE 1  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE	
10	10	3	1	0.213027	9	0.273419	
			5	0.407826	8	0.334306	
			9	0.379157	10	0.305937	
			BIAS CORR		0.907915		
			VAR COEFF		0.007058		0.006739
		EFFICIENCY	90.33		95.88		
10	10	2	3	0.444081	7	0.519586	
			8	0.555919	10	0.369567	
			BIAS CORR		0.927009		
			VAR COEFF		0.007870		0.007171
					EFFICIENCY	81.07	
10	10	1	6	1.000000	5	0.860057	
			BIAS CORR		0.943198		
			VAR COEFF		0.010164		0.009152
					EFFICIENCY	62.77	
10	9	9	1	0.117018	1	0.019359	
			2	0.078167	2	0.030721	
			3	0.068968	3	0.046421	
			4	0.080531	4	0.059744	
			5	0.087247	5	0.074439	
			6	0.090997	6	0.083948	
			7	0.094927	7	0.117814	
			8	0.107931	8	0.142191	
			9	0.239612	9	0.394767	
			BIAS CORR		0.901907		
			VAR COEFF		0.006613		0.007188
		EFFICIENCY	100.00		100.00		
		EFF (M/N)	96.42		89.87		
10	9	8	1	0.117335	2	0.042382	
			2	0.078134	3	0.046383	
			3	0.114079	4	0.055785	
			4	0.131421	5	0.079376	
			5	0.084702	6	0.094070	
			6	0.102004	7	0.117781	
			7	0.106709	8	0.142280	
			8	0.240604	9	0.394931	



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.902386	
				VAR CCEFF	0.006627	0.007191
				EFFICIENCY	99.78	99.96
10	9	7	1	0.137724	2	0.060555
			2	0.077812	4	0.086769
			3	0.114810	5	0.078828
			5	0.176035	6	0.095044
			7	0.146077	7	0.116875
			8	0.106030	8	0.143028
			9	0.241502	9	0.395076
				BIAS CORR	0.902268	
				VAR CCEFF	0.005642	0.007198
				EFFICIENCY	99.56	99.87
10	9	6	1	0.137860	2	0.060632
			2	0.109740	4	0.123840
			4	0.168103	6	0.136072
			6	0.188924	7	0.115671
			8	0.155160	8	0.144475
			9	0.240213	9	0.395205
				BIAS CORR	0.902468	
				VAR CCEFF	0.006665	0.007210
				EFFICIENCY	99.22	99.71
10	9	5	1	0.162841	3	0.108297
			3	0.166005	5	0.158436
			5	0.177704	7	0.165543
			7	0.207333	8	0.140584
			9	0.286117	9	0.397657
				BIAS CORR	0.903301	
				VAR CCEFF	0.006700	0.007226
				EFFICIENCY	98.69	99.47
10	9	4	1	0.186623	4	0.168429
			4	0.268535	6	0.197651
			7	0.254187	8	0.198439
			9	0.290655	9	0.398025
				BIAS CORR	0.907388	
				VAR CCEFF	0.006805	0.007271
				EFFICIENCY	97.17	98.86

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE	
10	9	3	1	0.213022	4	0.211279	
			5	0.407826	7	0.289911	
			9	0.379152	9	0.461128	
			BIAS CORR	0.907915			
			VAR CCEFF	0.007058		0.007346	
			EFFICIENCY	93.69		97.86	
10	9	2	3	0.444081	6	0.413143	
			8	0.555919	9	0.524927	
			BIAS CORR	0.927008			
			VAR CCEFF	0.007870		0.007586	
			EFFICIENCY	84.03		94.75	
10	9	1	6	1.000000	5	0.860057	
				BIAS CORR	0.943158		
				VAR CCEFF	0.010166		0.009152
				EFFICIENCY	65.05		78.54
10	8	8	1	0.143461	1	0.017176	
			2	0.082372	2	0.035508	
			3	0.080354	3	0.048895	
			4	0.087839	4	0.073553	
			5	0.086801	5	0.081445	
			6	0.098103	6	0.110900	
			7	0.102241	7	0.128566	
			8	0.318830	8	0.525456	
			BIAS CORR	0.872665			
			VAR CCEFF	0.006928		0.008109	
	EFFICIENCY	100.00		100.00			
	EFF(M/N)	92.03		79.68			
10	8	7	1	0.143681	2	0.048551	
			2	0.082847	3	0.048855	
			3	0.079844	4	0.073604	
			4	0.129060	5	0.081380	
			6	0.143306	6	0.111044	
			7	0.100906	7	0.128534	
			8	0.320358	8	0.525711	
	BIAS CORR	0.872815					
	VAR CCEFF	0.006942		0.008113			

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	99.79	99.96
10	8	6	1	0.144001	2	0.067695
			2	0.114401	4	0.102032
			4	0.175404	5	0.080867
			6	0.144732	6	0.112076
			7	0.099459	7	0.127584
			8	0.322003	8	0.526647
			BIAS CORR	0.873778		
			VAR CCEFF	0.006961		0.008120
			EFFICIENCY	99.52		99.87
10	8	5	1	0.144333	2	0.067777
			2	0.114668	4	0.140038
			4	0.176276	6	0.154139
			6	0.197054	7	0.126353
			8	0.367669	8	0.528258
			BIAS CORR	0.873158		
			VAR CCEFF	0.006981		0.008133
			EFFICIENCY	99.23		99.71
10	8	4	1	0.171579	3	0.122148
			3	0.210916	5	0.176482
			6	0.246638	7	0.185107
			8	0.370867	8	0.526807
			BIAS CORR	0.875582		
			VAR CCEFF	0.007049		0.008162
			EFFICIENCY	98.28		99.35
10	8	3	1	0.197426	4	0.190027
			4	0.334412	6	0.221611
			8	0.468162	8	0.590309
			BIAS CORR	0.877116		
			VAR CCEFF	0.007221		0.008208
			EFFICIENCY	95.94		98.79
10	8	2	3	0.444081	5	0.336317
			8	0.555919	8	0.653064
			BIAS CORR	0.927008		
			VAR CCEFF	0.007870		0.008364
			EFFICIENCY	88.03		96.95

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
10	8	1	6	1.000000	6	0.927163
				BIAS CORR	0.943158	
				VAR CCEFF	0.010166	0.009278
				EFFICIENCY	68.15	87.40
10	7	7	1	0.152040	1	0.019998
			2	0.085659	2	0.037986
			3	0.089309	3	0.063687
			4	0.085398	4	0.070841
			5	0.098428	5	0.105138
			6	0.098871	6	0.118356
			7	0.390296	7	0.651431
				BIAS CORR	0.841256	
				VAR CCEFF	0.007334	0.009306
				EFFICIENCY	100.00	100.00
	EFF(M/N)	86.93	69.43			
10	7	6	1	0.152394	2	0.053175
			2	0.085638	3	0.063648
			3	0.126979	4	0.070899
			5	0.145277	5	0.105076
			6	0.097527	6	0.118527
			7	0.392185	7	0.651688
				BIAS CORR	0.841671	
				VAR CCEFF	0.007351	0.009311
				EFFICIENCY	99.78	99.95
			10	7	5	1
2	0.085306	3				0.094802
3	0.127807	5				0.143877
5	0.193814	6				0.117374
7	0.440226	7				0.653321
	BIAS CORR	0.841414				
	VAR CCEFF	0.007368				0.009322
	EFFICIENCY	99.54				99.83
10	7	4	1	0.179775	3	0.139159
			3	0.183211	5	0.144433
			5	0.194627	6	0.116726
			7	0.442387	7	0.654999

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.843795	
				VAR CCEFF	0.007404	0.009340
				EFFICIENCY	99.06	99.64
10	7	3	1	0.206464	3	0.135689
			4	0.295465	5	0.202517
			7	0.498071	7	0.713166
				BIAS CORR	0.847295	
				VAR CCEFF	0.007532	0.009365
				EFFICIENCY	97.37	99.37
10	7	2	2	0.361221	4	0.269294
			7	0.638779	7	0.775001
				BIAS CORR	0.877253	
				VAR CCEFF	0.008057	0.009480
				EFFICIENCY	91.03	98.17
10	7	1	6	1.000000	7	0.991900
				BIAS CORR	0.943158	
				VAR CCEFF	0.010166	0.010065
				EFFICIENCY	72.15	92.47
10	6	6	1	0.162577	1	0.022659
			2	0.093955	2	0.048432
			3	0.089538	3	0.063375
			4	0.098859	4	0.096458
			5	0.098796	5	0.111072
			6	0.456275	6	0.778755
				BIAS CORR	0.807012	
				VAR CCEFF	0.007864	0.010921
				EFFICIENCY	100.00	100.00
				EFF(M/N)	81.08	59.17
10	6	5	1	0.162875	2	0.065648
			2	0.094515	3	0.063331
			3	0.089006	4	0.096535
			4	0.145796	5	0.111004
			6	0.507809	6	0.779245
				BIAS CORR	0.807007	
				VAR CCEFF	0.007883	0.010927
				EFFICIENCY	99.76	99.94

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE			
10	6	4	1	0.163283	2	0.090488			
			2	0.129730	4	0.133399			
			4	0.197507	5	0.110393			
			6	0.509480	6	0.780577			
			BIAS CORR	0.807898					
			VAR CCEFF	0.007906		0.010939			
			EFFICIENCY	99.47		99.84			
10	6	3	1	0.194293	2	0.090653			
			3	0.237787	4	0.185376			
			6	0.567920	6	0.838601			
			BIAS CORR	0.809589					
			VAR CCEFF	0.007991		0.010963			
			EFFICIENCY	98.41		99.62			
			10	6	2	1	0.276111	4	0.251183
6	0.723884	6				0.844011			
BIAS CORR	0.823475								
VAR CCEFF	0.008415					0.011040			
EFFICIENCY	93.45					98.92			
10	6	1				6	1.000000	6	1.060268
						BIAS CORR	0.943158		
			VAR CCEFF	0.010166		0.011428			
			EFFICIENCY	77.36		95.57			
			10	5	5	1	0.177545	1	0.027974
						2	0.099835	2	0.053684
						3	0.101676	3	0.084377
4	0.102017	4				0.105808			
5	0.518927	5				0.913448			
BIAS CORR	0.768920								
VAR CCEFF	0.008574					0.013217			
EFFICIENCY	100.00		100.00						
EFF(M/N)	74.36		48.89						
10	5	4	1	0.178045	2	0.074945			
			2	0.099864	3	0.084339			
			3	0.146726	4	0.105910			
			5	0.575365	5	0.913988			

TABLE I

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 7 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.769180	
				VAR CCEFF	0.008597	0.013220
				EFFICIENCY	99.73	99.93
10	5	3	1	0.209739	2	0.108065
			3	0.211748	4	0.155052
			5	0.578513	5	0.915002
				BIAS CORR	0.771555	
				VAR CCEFF	0.008646	0.013247
				EFFICIENCY	99.17	99.77
10	5	2	1	0.268453	3	0.193639
			5	0.731547	5	0.975203
				BIAS CORR	0.779884	
				VAR CCEFF	0.008920	0.013286
				EFFICIENCY	96.12	99.47
10	5	1	5	1.000000	5	1.137619
				BIAS CORR	0.879029	
				VAR CCEFF	0.010472	0.013553
				EFFICIENCY	81.87	97.52
10	4	4	1	0.197645	1	0.034164
			2	0.112207	2	0.069397
			3	0.110152	3	0.100051
			4	0.579997	4	1.064033
				BIAS CORR	0.725377	
				VAR CCEFF	0.009575	0.016733
				EFFICIENCY	100.00	100.00
				EFF(M/N)	66.59	38.62
10	4	3	1	0.198291	2	0.095377
			2	0.155896	3	0.100016
			4	0.645813	4	1.064850
				BIAS CORR	0.726148	
				VAR CCEFF	0.009611	0.016747
				EFFICIENCY	99.63	99.92
10	4	2	1	0.266127	2	0.134688
			4	0.733873	4	1.124400
				BIAS CORR	0.731560	

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				VAR CCEFF EFFICIENCY	0.009770 98.00	0.016776 99.74
10	4	1	4	1.000000 BIAS CORR VAR CCEFF EFFICIENCY	0.812011 0.011174 85.69	1.231510 0.016947 98.73
10	3	3	1 2 3	0.228700 0.128139 0.643082 BIAS CORR VAR CCEFF EFFICIENCY EFF(M/N)	0.673495 0.032106 100.00 57.41	0.045494 0.090149 1.245909 0.022782 100.00 28.36
10	3	2	1 3	0.289867 0.730133 BIAS CORR VAR CCEFF EFFICIENCY	0.675874 0.011186 99.29	0.124775 1.247033 0.022807 99.89
10	3	1	3	1.000000 BIAS CORR VAR CCEFF EFFICIENCY	0.737292 0.012451 89.20	1.356316 0.022905 99.46
10	2	2	1 2	0.282887 0.717113 BIAS CORR VAR CCEFF EFFICIENCY EFF(M/N)	0.607265 0.013821 100.00 45.13	0.066617 1.496007 0.035564 100.00 18.17
10	2	1	2	1.000000 BIAS CORR VAR CCEFF EFFICIENCY	0.645749 0.014832 93.06	1.548589 0.035617 99.85
10	1	1	1	1.000000 BIAS CORR	0.509708	1.961909



TABLE I

COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 2 TO 10)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF	0.020448	0.078705
				EFFICIENCY	100.00	100.00
				EFF(M/N)	31.12	8.21

GAW/MATH/68-1

APPENDIX B

Tables  
for  
Sample Sizes 11 to 13

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE			
11	11	11	1	1.110130	1	0.468910			
			2	-0.074630	2	0.318164			
			3	-0.021640	3	0.232845			
			4	-0.007903	4	0.178106			
			5	-0.003285	5	0.139976			
			6	-0.001471	6	0.111599			
			7	-0.000682	7	0.089499			
			8	-0.000316	8	0.071437			
			9	-0.000140	9	0.055884			
			10	-0.000053	10	0.041377			
			11	-0.000011	11	0.022176			
	BIAS CORR		0.005674						
	VAR COEFF		0.001255			0.382374			
	EFFICIENCY		100.00			100.00			
	EFF(M/N)		100.00			100.00			
11	11	10	1	1.110137	2	0.448936			
			2	-0.074630	3	0.233304			
			3	-0.021640	4	0.178318			
			4	-0.007903	5	0.140045			
			5	-0.003282	6	0.111675			
			6	-0.001471	7	0.089551			
			7	-0.000683	8	0.071476			
			8	-0.000317	9	0.055917			
			9	-0.000140	10	0.041343			
			10	-0.000068	11	0.022186			
				BIAS CORR		0.005719			
	VAR COEFF		0.001255			0.382553			
	EFFICIENCY		100.00			99.95			
11	11	9	1	1.110157	2	0.627690			
			2	-0.074633	4	0.255877			
			3	-0.021641	5	0.140291			
			4	-0.007904	6	0.111826			
			5	-0.003286	7	0.089653			
			6	-0.001472	8	0.071547			
			7	-0.000684	9	0.055964			
			8	-0.000310	10	0.041379			
			10	-0.000148	11	0.022205			
				BIAS CORR		0.005747			
				VAR COEFF		0.001255			0.382870

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				100.00		99.87
			EFFICIENCY			
11	11	8	1	1.110196	2	0.629472
			2	-0.074637	4	0.358836
			3	-0.021644	6	0.158839
			4	-0.007905	7	0.089855
			5	-0.003287	8	0.071684
			6	-0.001473	9	0.056060
			7	-0.000937	10	0.041444
			9	-0.000312	11	0.022238
			BIAS CORR	0.005834		
			VAR COEFF	0.001255		0.383423
			EFFICIENCY	99.99		99.73
11	11	7	1	1.110292	3	0.553621
			2	-0.074648	5	0.284102
			3	-0.021649	7	0.126468
			4	-0.007909	8	0.071920
			5	-0.003291	9	0.056225
			6	-0.001994	10	0.041558
			8	-0.000802	11	0.022296
			BIAS CORR	0.005977		
			VAR COEFF	0.001255		0.384382
			EFFICIENCY	99.98		99.48
11	11	5	1	1.110516	3	0.702067
			2	-0.074672	6	0.271186
			3	-0.021661	8	0.100014
			4	-0.007918	9	0.056574
			5	-0.004384	10	0.041790
			7	-0.001880	11	0.022412
			BIAS CORR	0.006204		
			VAR COEFF	0.001255		0.386294
			EFFICIENCY	99.96		98.99
11	11	3	1	1.111038	4	0.610518
			2	-0.074730	7	0.219305
			3	-0.021690	9	0.077022
			4	-0.010344	10	0.042180
			6	-0.004274	11	0.022602
			BIAS CORR	0.006547		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				0.001256		0.389362
				99.91		98.21
11	11	4	1	1.112329	5	0.537640
			2	-0.074872	8	0.178428
			3	-0.027607	10	0.055526
			5	-0.009849	11	0.023010
				0.007071		
				0.001258		0.395709
				99.79		96.63
11	11	3	1	1.116021	6	0.482610
			2	-0.091874	9	0.146528
			4	-0.024147	11	0.028939
				0.007901		
				0.001262		0.411155
				99.45		93.00
11	11	2	1	1.068187	8	0.383098
			3	-0.068187	11	0.036075
				0.009345		
				0.001280		0.455657
				98.09		83.92
11	11	1	1	1.000000	9	0.381962
				0.016529		
				0.001366		0.590102
				91.87		64.80
11	10	10	1	1.110137	1	0.516816
			2	-0.074630	2	0.350757
			3	-0.021640	3	0.256785
			4	-0.007903	4	0.196511
			5	-0.003285	5	0.154491
			6	-0.001471	6	0.123344
			7	-0.000683	7	0.099088
			8	-0.000317	8	0.079342
			9	-0.000140	9	0.062505
			10	-0.000068	10	0.078879
				0.005719		
				0.001255		0.420796

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
			EFF( M/N)	100.00		90.87
11	10	9	1	1.110157	2	0.494914
			2	-0.074633	3	0.257304
			3	-0.021641	4	0.196754
			4	-0.007904	5	0.154629
			5	-0.003286	6	0.123434
			6	-0.001472	7	0.099151
			7	-0.000684	8	0.079389
			8	-0.000440	9	0.062540
			10	-0.000098	10	0.078921
			BIAS CORR	0.005747		
			VAR COEFF	0.001255		0.421013
			EFFICIENCY	100.00		99.95
11	10	8	1	1.110196	2	0.692116
			2	-0.074637	4	0.282311
			3	-0.021644	5	0.154915
			4	-0.007905	6	0.123611
			5	-0.003287	7	0.099272
			6	-0.001473	8	0.079475
			7	-0.000937	9	0.062604
			9	-0.000312	10	0.078996
			BIAS CORR	0.005834		
			VAR COEFF	0.001255		0.421399
			EFFICIENCY	99.99		99.86
11	10	7	1	1.110292	2	0.694192
			2	-0.074648	4	0.396069
			3	-0.021649	6	0.175553
			4	-0.007909	7	0.099511
			5	-0.003291	8	0.079640
			6	-0.001994	9	0.062720
			8	-0.000602	10	0.079131
			BIAS CORR	0.005977		
			VAR COEFF	0.001255		0.422073
			EFFICIENCY	99.99		99.70
11	10	6	1	1.110516	3	0.610871
			2	-0.074672	5	0.313899

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
			3	-0.021661	7	0.140027
			4	-0.007918	8	0.079923
			5	-0.004384	9	0.062922
			7	-0.001880	10	0.079363
				BIAS CORR		0.423243
				VAR COEFF		99.42
				EFFICIENCY		
11	10	5	1	1.111038	3	0.775253
			2	-0.074730	6	0.300056
			3	-0.021690	8	0.111107
			4	-0.010344	9	0.063346
			6	-0.004274	10	0.079839
				BIAS CORR		0.425582
				VAR COEFF		98.88
				EFFICIENCY		
11	10	4	1	1.112329	4	0.675093
			2	-0.074872	7	0.243343
			3	-0.027607	9	0.086165
			5	-0.009849	10	0.080629
				BIAS CORR		0.429355
				VAR COEFF		98.01
				EFFICIENCY		
11	10	3	1	1.116021	5	0.596149
			2	-0.091874	8	0.199167
			4	-0.024147	10	0.096388
				BIAS CORR		0.437247
				VAR COEFF		96.24
				EFFICIENCY		
11	10	2	1	1.068187	7	0.465355
			3	-0.068187	10	0.114119
				BIAS CORR		0.462532
				VAR COEFF		90.98
				EFFICIENCY		
11	10	1	1	1.000000	9	0.381962
				BIAS CORR		0.590102
				VAR COEFF		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	91.88	71.31
11	9	9	1	1.110164	1	0.577513
			2	-0.074633	2	0.392145
			3	-0.021642	3	0.287277
			4	-0.007904	4	0.220051
			5	-0.003286	5	0.173228
			6	-0.001472	6	0.138586
			7	-0.000684	7	0.111707
			8	-0.000318	8	0.089997
			9	-0.000224	9	0.179602
				BIAS CORR	0.005811	
				VAR COEFF	0.001255	0.468796
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	81.57
11	9	8	1	1.110196	2	0.553267
			2	-0.074637	3	0.287875
			3	-0.021644	4	0.220336
			4	-0.007905	5	0.173395
			5	-0.003287	6	0.138696
			6	-0.001473	7	0.111785
			7	-0.000937	8	0.090056
			9	-0.000312	9	0.179710
				BIAS CORR	0.005834	
				VAR COEFF	0.001255	0.469068
				EFFICIENCY	100.00	99.94
11	9	7	1	1.110292	2	0.773987
			2	-0.074648	4	0.316093
			3	-0.021649	5	0.173734
			4	-0.007909	6	0.138911
			5	-0.003291	7	0.111934
			6	-0.001994	8	0.090164
			8	-0.000802	9	0.179906
				BIAS CORR	0.005977	
				VAR COEFF	0.001255	0.469551
				EFFICIENCY	99.99	99.99
11	9	6	1	1.110516	2	0.776471
			2	-0.074672	4	0.443762



TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
			3	-0.021661	6	0.197203
			4	-0.007918	7	0.112227
			5	-0.004384	8	0.090369
			7	-0.001880	9	0.180261
				BIAS CORR		0.470399
				VAR COEFF		99.66
				EFFICIENCY		
11	9	5	1	1.111038	3	0.683882
			2	-0.074730	5	0.352339
			3	-0.021690	7	0.157824
			4	-0.010344	8	0.090723
			6	-0.004274	9	0.180875
				BIAS CORR		0.471870
				VAR COEFF		99.35
				EFFICIENCY		
11	9	4	1	1.112329	3	0.868906
			2	-0.074872	6	0.337662
			3	-0.027607	8	0.126031
			5	-0.009849	9	0.182148
				BIAS CORR		0.474831
				VAR COEFF		98.73
				EFFICIENCY		
11	9	3	1	1.116021	4	0.758301
			2	-0.091874	7	0.275197
			4	-0.024147	9	0.209428
				BIAS CORR		0.479648
				VAR COEFF		97.74
				EFFICIENCY		
11	9	2	1	1.068187	6	0.588151
			3	-0.068187	9	0.238875
				BIAS CORR		0.495989
				VAR COEFF		94.52
				EFFICIENCY		
11	9	1	1	1.000000	9	0.381962
				BIAS CORR		0.590122
				VAR COEFF		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		79.44
				91.88		
11	8	8	1	1.110235	1	0.655629
			2	-0.074641	2	0.445545
			3	-0.021646	3	0.326750
			4	-0.007907	4	0.250663
			5	-0.003289	5	0.197754
			6	-0.001475	6	0.158727
			7	-0.000687	7	0.128627
			8	-0.000591	8	0.348375
				BIAS CORR		
				0.005953		
				VAR COEFF		0.529590
				0.001255		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		72.20
				99.99		
11	8	7	1	1.110292	2	0.628513
			2	-0.074648	3	0.327457
			3	-0.021649	4	0.251008
			4	-0.007909	5	0.197960
			5	-0.003291	6	0.158866
			6	-0.001994	7	0.128727
			8	-0.000802	8	0.348619
				BIAS CORR		
				0.005977		
				VAR COEFF		0.529940
				0.001255		
				EFFICIENCY		99.93
				99.99		
11	8	6	1	1.110516	2	0.879711
			2	-0.074672	4	0.359986
			3	-0.021661	5	0.198376
			4	-0.007918	6	0.159135
			5	-0.004384	7	0.128917
			7	-0.001880	8	0.349063
				BIAS CORR		
				0.006204		
				VAR COEFF		0.530565
				0.001255		
				EFFICIENCY		99.82
				99.97		
11	8	5	1	1.111038	2	0.882786
			2	-0.074730	4	0.505903
			3	-0.021690	6	0.225760
			4	-0.010344	7	0.129290
			6	-0.004274	8	0.349880

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.006547		0.531671
				0.001256		99.61
				99.92		
11	8	4	1	1.112329	3	0.778566
			2	-0.074872	5	0.402821
			3	-0.027607	7	0.181630
			5	-0.009849	8	0.351294
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.007071		0.533591
				0.001258		99.25
				99.80		
11	8	3	1	1.116021	3	0.990869
			2	-0.091874	6	0.387544
			4	-0.024147	8	0.394098
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.007901		0.537488
				0.001262		98.53
				99.46		
11	8	2	1	1.068187	5	0.759650
			3	-0.068187	8	0.437853
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.009349		0.548381
				0.001280		96.57
				98.10		
11	8	1	1	1.000000	8	0.623128
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.016529		0.611221
				0.001366		86.64
				91.88		
11	7	7	1	1.110401	1	0.759282
			2	-0.074660	2	0.516614
			3	-0.021655	3	0.379491
			4	-0.007913	4	0.291782
			5	-0.003295	5	0.230943
			6	-0.001481	6	0.186274
			7	-0.001398	7	0.629958
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.006175		0.608718
				0.001255		100.00
				100.00		62.82
				EFF(M/N)		
				99.97		

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE			
11	7	6	1	1.110516	2	0.728589			
			2	-0.074672	3	0.380353			
			3	-0.021661	4	0.292215			
			4	-0.007918	5	0.231207			
			5	-0.004384	6	0.186456			
			7	-0.001880	7	0.630481			
			BIAS CORR	0.006204					
			VAR COEFF	0.001255		0.609187			
			EFFICIENCY	99.99		99.92			
			11	7	5	1	1.111038	2	1.020573
2	-0.074730	4				0.418884			
3	-0.021690	5				0.231741			
4	-0.010344	6				0.186810			
6	-0.004274	7				0.631444			
BIAS CORR	0.006547								
VAR COEFF	0.001256					0.610030			
EFFICIENCY	99.94					99.78			
11	7	4				1	1.112329	2	1.024552
						2	-0.074872	4	0.589571
			3	-0.027607	6	0.264746			
			5	-0.009849	7	0.633254			
			BIAS CORR	0.007071					
			VAR COEFF	0.001258		0.611541			
			EFFICIENCY	99.82		99.54			
			11	7	3	1	1.116021	3	0.905386
						2	-0.091874	5	0.471426
						4	-0.024147	7	0.697140
BIAS CORR	0.007901								
VAR COEFF	0.001262					0.614162			
EFFICIENCY	99.47					99.11			
11	7	2				1	1.068187	4	1.004600
						3	-0.068187	7	0.761582
						BIAS CORR	0.009349		
						VAR COEFF	0.001280		0.622317
			EFFICIENCY	98.11		97.81			
			11	7	1	1	1.000000	7	0.988596

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.016529		0.666893
				0.001366		91.28
				91.90		
11	6	6	1	1.110779	1	0.902722
			2	-0.074701	2	0.615334
			3	-0.021676	3	0.453098
			4	-0.007929	4	0.349532
			5	-0.003308	5	0.277757
			6	-0.003135	6	1.110856
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.006509		0.715667
				0.001256		100.00
				100.00		53.43
				99.94		
11	6	5	1	1.111038	2	0.867500
			2	-0.074730	3	0.454195
			3	-0.021690	4	0.350104
			4	-0.010344	5	0.278318
			6	-0.004274	6	1.111985
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.006547		0.716331
				0.001256		99.91
				99.98		
11	6	4	1	1.112329	2	1.216527
			2	-0.074872	4	0.501515
			3	-0.027607	5	0.279041
			5	-0.009849	6	1.114097
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.007071		0.717533
				0.001258		99.74
				99.85		
11	6	3	1	1.116021	2	1.221998
			2	-0.091874	4	0.707446
			4	-0.024147	6	1.211199
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.007901		0.719724
				0.001262		99.44
				99.51		
11	6	2	1	1.068187	3	1.375099
			3	-0.068187	6	1.307039

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.009349	
				VAR COEFF	0.001280	0.726271
				EFFICIENCY	98.15	98.54
11	6	1	1	1.000000	6	1.570060
				BIAS CORR	0.016529	
				VAR COEFF	0.001366	0.758286
				EFFICIENCY	91.93	94.38
11	5		1	1.111638	1	1.113141
			2	-0.074796	2	0.760732
			3	-0.021723	3	0.562126
			4	-0.007963	4	0.435715
			5	-0.007156	5	1.972140
				BIAS CORR	0.007015	
				VAR COEFF	0.001257	0.867877
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.86	44.06
11	5	4	1	1.112329	2	1.071922
			2	-0.074872	3	0.563615
			3	-0.027607	4	0.436529
			5	-0.009849	5	1.974711
				BIAS CORR	0.007071	
				VAR COEFF	0.001258	0.868887
				EFFICIENCY	99.93	99.88
11	5	3	1	1.116021	2	1.505713
			2	-0.091874	4	0.624706
			4	-0.024147	5	1.979607
				BIAS CORR	0.007901	
				VAR COEFF	0.001262	0.870739
				EFFICIENCY	99.59	99.67
11	5	2	1	1.068187	3	1.337835
			3	-0.068187	5	2.138500
				BIAS CORR	0.009349	
				VAR COEFF	0.001280	0.875012
				EFFICIENCY	98.23	99.18
11	5	1	1	1.000000	5	2.554908

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.016529		0.899348
				0.001366		96.50
				92.01		
11	4	4	1	1.113679	1	1.448044
			2	-0.075022	2	0.993429
			3	-0.021836	3	0.737828
			4	-0.016827	4	3.639086
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.007798		1.101046
				0.001259		100.00
				100.00		34.73
				99.67		
11	4	3	1	1.116021	2	1.398798
			2	-0.091874	3	0.740064
			4	-0.024147	4	3.645579
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.007901		1.102756
				0.001262		99.84
				99.78		
11	4	2	1	1.068187	2	1.969902
			3	-0.068187	3	3.903315
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.009349		1.105952
				0.001280		99.56
				98.42		
11	4	1	1	1.000000	4	4.374809
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.016529		1.124008
				0.001366		97.96
				92.18		
11	3	3	1	1.118984	1	2.052014
			2	-0.075607	2	1.415904
			3	-0.043377	3	7.294131
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.009075		1.500866
				0.001266		100.00
				100.00		25.48
				99.17		
11	3	2	1	1.068187	2	1.991847
			3	-0.068187	3	7.313891

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		0.009349
				VAR COEFF		0.001280
				EFFICIENCY		98.91
11	3	1	1	1.000000	3	8.208405
				BIAS CORR		0.016529
				VAR COEFF		0.001366
				EFFICIENCY		92.64
11	2	2	1	1.135181	1	3.399446
			2	-0.135181	2	17.250923
				BIAS CORR		0.011367
				VAR COEFF		0.001285
				EFFICIENCY		100.00
				EFF(M/N)		16.39
11	2	1	1	1.000000	2	18.277946
				BIAS CORR		0.016529
				VAR COEFF		0.001366
				EFFICIENCY		94.05
11	1	1	1	1.000000	1	60.500002
				BIAS CORR		0.016529
				VAR COEFF		0.001366
				EFFICIENCY		100.00
				EFF(M/N)		7.65
12	12	12	1	1.111493	1	0.463964
			2	-0.074783	2	0.316738
			3	-0.021989	3	0.233300
			4	-0.008173	4	0.179763
			5	-0.003475	5	0.142466
			6	-0.001604	6	0.114880
			7	-0.000775	7	0.093407
			8	-0.000382	8	0.076201
			9	-0.000186	9	0.061661
			10	-0.000085	10	0.048826
			11	-0.000033	11	0.036532
			12	-0.000007	12	0.019886
				BIAS CORR		0.004532
				VAR COEFF		0.000885



TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		100.00
12	12	11	1	1.111497	2	0.448207
			2	-0.074783	3	0.233701
			3	-0.021989	4	0.179945
			4	-0.008173	5	0.142567
			5	-0.003476	6	0.114944
			6	-0.001604	7	0.093531
			7	-0.000775	8	0.076233
			8	-0.000382	9	0.061686
			9	-0.000186	10	0.048844
			10	-0.000086	11	0.036545
			11	-0.000043	12	0.019893
				BIAS CORR		
				VAR COEFF		0.349392
				EFFICIENCY		99.96
12	12	10	1	1.111509	2	0.624241
			2	-0.074785	4	0.259329
			3	-0.021990	5	0.142768
			4	-0.008174	6	0.115066
			5	-0.003476	7	0.093612
			6	-0.001604	8	0.076292
			7	-0.000776	9	0.061729
			8	-0.000382	10	0.048877
			9	-0.000260	11	0.036568
			11	-0.000062	12	0.019905
				BIAS CORR		
				VAR COEFF		0.349601
				EFFICIENCY		99.91
12	12	9	1	1.111531	2	0.625571
			2	-0.074787	4	0.361290
			3	-0.021991	6	0.164630
			4	-0.008174	7	0.093766
			5	-0.003477	8	0.076397
			6	-0.001605	9	0.061804
			7	-0.000776	10	0.048931
			8	-0.000530	11	0.036607
			10	-0.000191	12	0.019925

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		0.349942
				EFFICIENCY		99.81
12	12	6	1	1.111584	3	0.554852
			2	-0.074793	5	0.288037
			3	-0.021994	7	0.133287
			4	-0.008176	8	0.076578
			5	-0.003478	9	0.061934
			6	-0.002165	10	0.049026
			9	-0.000786	11	0.036674
			10	-0.000191	12	0.019961
				BIAS CORR		
				VAR COEFF		0.350545
				EFFICIENCY		99.64
12	12	7	1	1.111691	3	0.556805
			2	-0.074804	5	0.289169
			3	-0.021999	7	0.190940
			4	-0.008180	9	0.085911
			5	-0.004621	10	0.049207
			7	-0.001612	11	0.036793
			9	-0.000475	12	0.020020
				BIAS CORR		
				VAR COEFF		0.351513
				EFFICIENCY		99.36
12	12	8	1	1.111947	3	0.702359
			2	-0.074831	6	0.280631
			3	-0.022013	8	0.157767
			4	-0.010659	10	0.066773
			6	-0.003378	11	0.037019
			8	-0.001066	12	0.020130
				BIAS CORR		
				VAR COEFF		0.353301
				EFFICIENCY		98.86
12	12	9	1	1.112535	4	0.617469
			2	-0.074894	7	0.230624
			3	-0.022043	9	0.130819
			4	-0.012573	11	0.048358

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	i	LOCATION	i	SCALE
			7	-0.003026	12	0.020349
			BIAS CORR	0.005145		0.356653
			VAR COEFF	0.000886		97.93
			EFFICIENCY	99.90		
12	12	4	1	1.113904	6	0.480816
			2	-0.075039	9	0.154940
			3	-0.028044	11	0.049317
			5	-0.010821	12	0.020724
			BIAS CORR	0.005841		0.363020
			VAR COEFF	0.000887		96.21
			EFFICIENCY	99.77		
12	12	3	1	1.117698	6	0.597855
			2	-0.092050	10	0.141842
			4	-0.025648	12	0.026053
			BIAS CORR	0.006557		0.376759
			VAR COEFF	0.000890		92.70
			EFFICIENCY	99.42		
12	12	2	1	1.070517	9	0.348911
			3	-0.070517	12	0.032713
			BIAS CORR	0.007787		0.420599
			VAR COEFF	0.000902		83.04
			EFFICIENCY	98.07		
12	12	1	1	1.000000	10	0.346589
			BIAS CORR	0.013889		0.540797
			VAR COEFF	0.000965		64.58
			EFFICIENCY	91.73		
12	11	11	1	1.111497	1	0.506842
			2	-0.074783	2	0.346074
			3	-0.021989	3	0.254969
			4	-0.008173	4	0.196524
			5	-0.003476	5	0.155819
			6	-0.001604	6	0.125729
			7	-0.000775	7	0.102417
			8	-0.000382	8	0.083618
			9	-0.000186	9	0.067858
			10	-0.000086	10	0.054105

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
			11	-0.000043	11	0.069329
			BIAS CORR	0.004557		
			VAR COEFF	0.000885		0.381081
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		91.65
12	11	10	1	1.111509	2	0.489709
			2	-0.074785	3	0.255416
			3	-0.021990	4	0.196729
			4	-0.008174	5	0.155935
			5	-0.003476	6	0.125803
			6	-0.001604	7	0.102469
			7	-0.000776	8	0.083656
			8	-0.000382	9	0.067897
			9	-0.000260	10	0.054127
			11	-0.000062	11	0.069356
			BIAS CORR	0.004575		
			VAR COEFF	0.000885		0.381227
			EFFICIENCY	100.00		99.96
12	11	9	1	1.111531	2	0.682138
			2	-0.074787	4	0.283505
			3	-0.021991	5	0.156163
			4	-0.008174	6	0.125944
			5	-0.003477	7	0.102564
			6	-0.001605	8	0.083725
			7	-0.000776	9	0.067949
			8	-0.000530	10	0.054165
			10	-0.000191	11	0.069403
			BIAS CORR	0.004630		
			VAR COEFF	0.000885		0.381476
			EFFICIENCY	100.00		99.90
12	11	8	1	1.111584	2	0.683656
			2	-0.074793	4	0.395069
			3	-0.021994	6	0.180175
			4	-0.008176	7	0.102741
			5	-0.003478	8	0.083848
			6	-0.002165	9	0.068037
			8	-0.000786	10	0.054231
			10	-0.000191	11	0.069481

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.004647	
				VAR COEFF	0.000885	0.381885
				EFFICIENCY	99.99	99.79
12	11	7	1	1.111691	3	0.606585
			2	-0.074804	5	0.315171
			3	-0.021999	7	0.146027
			4	-0.008180	8	0.084060
			5	-0.004621	9	0.068192
			7	-0.001612	10	0.054345
			9	-0.000475	11	0.069619
				BIAS CORR	0.004741	
				VAR COEFF	0.000885	0.382606
				EFFICIENCY	99.98	99.60
12	11	6	1	1.111947	3	0.609897
			2	-0.074831	5	0.316502
			3	-0.022013	7	0.209372
			4	-0.010659	9	0.094539
			6	-0.003378	10	0.054561
			8	-0.001066	11	0.069856
				BIAS CORR	0.004891	
				VAR COEFF	0.000885	0.383773
				EFFICIENCY	99.96	99.30
12	11	5	1	1.112535	3	0.768591
			2	-0.074894	6	0.307491
			3	-0.022043	8	0.173433
			4	-0.012573	10	0.073950
			7	-0.003026	11	0.070305
				BIAS CORR	0.005145	
				VAR COEFF	0.000886	0.385934
				EFFICIENCY	99.90	98.74
12	11	4	1	1.113904	5	0.592146
			2	-0.075039	8	0.206333
			3	-0.028044	10	0.074837
			5	-0.010821	11	0.071078
				BIAS CORR	0.005841	
				VAR COEFF	0.000887	0.389987
				EFFICIENCY	99.77	97.72

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
12	11	3	1	1.117698	6	0.528423
			2	-0.092050	9	0.171391
			4	-0.025648	11	0.085061
			BIAS CORR	0.006557		
			VAR COEFF	0.000890		0.397711
			EFFICIENCY	99.42		95.92
12	11	2	1	1.070517	7	0.587262
			3	-0.070517	11	0.109395
			BIAS CORR	0.007787		
			VAR COEFF	0.000902		0.421579
			EFFICIENCY	98.07		90.39
12	11	1	1	1.000000	10	0.346589
			BIAS CORR	0.013889		
			VAR COEFF	0.000965		0.540797
			EFFICIENCY	91.73		70.47
12	10	10	1	1.111513	1	0.560023
			2	-0.074785	2	0.382521
			3	-0.021990	3	0.281953
			4	-0.008174	4	0.217459
			5	-0.003476	5	0.172569
			6	-0.001604	6	0.139418
			7	-0.000776	7	0.113786
			8	-0.000382	8	0.093193
			9	-0.000187	9	0.076078
			10	-0.000139	10	0.154518
			BIAS CORR	0.004616		
			VAR COEFF	0.000885		0.420064
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		82.15
12	10	9	1	1.111531	2	0.541249
			2	-0.074787	3	0.282459
			3	-0.021991	4	0.217695
			4	-0.008174	5	0.172703
			5	-0.003477	6	0.139507
			6	-0.001605	7	0.113848
			7	-0.000776	8	0.093239

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
			8	-0.000530	9	0.076114
			10	-0.000191	10	0.154586
			BIAS CORR	0.004630		
			VAR COEFF	0.000885		0.420243
			EFFICIENCY	100.00		99.96
12	10	8	1	1.111584	2	0.754107
			2	-0.074793	4	0.313680
			3	-0.021994	5	0.172968
			4	-0.008176	6	0.139672
			5	-0.003478	7	0.113962
			6	-0.002165	8	0.093322
			8	-0.000786	9	0.076177
			10	-0.000191	10	0.154704
			BIAS CORR	0.004647		
			VAR COEFF	0.000885		0.420548
			EFFICIENCY	99.99		99.99
12	10	7	1	1.111691	2	0.755878
			2	-0.074804	4	0.437303
			3	-0.021999	6	0.199764
			4	-0.008180	7	0.114172
			5	-0.004621	8	0.093471
			7	-0.001612	9	0.076286
			9	-0.000475	10	0.154902
			BIAS CORR	0.004741		
			VAR COEFF	0.000885		0.421049
			EFFICIENCY	99.98		99.77
12	10	6	1	1.111947	3	0.671051
			2	-0.074831	5	0.349262
			3	-0.022013	7	0.162217
			4	-0.010659	8	0.093727
			6	-0.003378	9	0.076475
			8	-0.001066	10	0.155249
			BIAS CORR	0.004891		
			VAR COEFF	0.000885		0.421933
			EFFICIENCY	99.96		99.56
12	10	5	1	1.112535	3	0.673875
			2	-0.074894	5	0.350875

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
			3	-0.022043	7	0.232936
			4	-0.012573	9	0.105895
			7	-0.003026	10	0.155874
				BIAS CORR		0.005145
				VAR COEFF		0.000886
				EFFICIENCY		99.90
12	10	4	1	1.113904	3	0.851475
			2	-0.075039	6	0.341500
			3	-0.028044	8	0.193831
			5	-0.010821	10	0.178369
				BIAS CORR		0.005841
				VAR COEFF		0.000887
				EFFICIENCY		99.78
12	10	3	1	1.117698	5	0.657702
			2	-0.092050	8	0.230683
			4	-0.025648	10	0.180629
				BIAS CORR		0.006557
				VAR COEFF		0.000890
				EFFICIENCY		99.42
12	10	2	1	1.070517	6	0.715408
			2	-0.070517	10	0.222545
				BIAS CORR		0.007787
				VAR COEFF		0.000902
				EFFICIENCY		98.07
12	10	1	1	1.000000	10	0.346589
				BIAS CORR		0.013889
				VAR COEFF		0.000965
				EFFICIENCY		91.73
12	9	4	1	1.111555	1	0.626690
			2	-0.074790	2	0.428300
			3	-0.021992	3	0.315931
			4	-0.008175	4	0.243908
			5	-0.003477	5	0.193826
			6	-0.001605	6	0.156905
			7	-0.000777	7	0.128443
			8	-0.000384	8	0.105719



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	i	LOCATION	i	SCALE
			9	-0.000354	9	0.292394
			BIAS CORR	0.004710		
			VAR COEFF	0.000885		0.468281
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.99		74.59
12	9	8	1	1.111585	2	0.605956
			2	-0.074793	3	0.316514
			3	-0.021994	4	0.244185
			4	-0.008176	5	0.193986
			5	-0.003478	6	0.157011
			6	-0.001606	7	0.128520
			7	-0.001063	8	0.105777
			9	-0.000474	9	0.292540
			BIAS CORR	0.004723		
			VAR COEFF	0.000885		0.468505
			EFFICIENCY	100.00		99.95
12	9	7	1	1.111691	2	0.844553
			2	-0.074804	4	0.351776
			3	-0.021999	5	0.194302
			4	-0.008180	6	0.157211
			5	-0.004621	7	0.128661
			7	-0.001612	8	0.105880
			9	-0.000475	9	0.292795
			BIAS CORR	0.004741		
			VAR COEFF	0.000885		0.468888
			EFFICIENCY	99.99		99.87
12	9	6	1	1.111947	2	0.846673
			2	-0.074831	4	0.490723
			3	-0.022013	6	0.224751
			4	-0.00659	7	0.128919
			6	-0.003378	8	0.106065
			8	-0.001766	9	0.293229
			BIAS CORR	0.004841		
			VAR COEFF	0.000885		0.469520
			EFFICIENCY	99.96		99.74
12	9	5	1	1.112535	3	0.752300
			2	-0.074894	5	0.392615

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
			3	-0.022043	7	0.183056
			4	-0.012573	8	0.106395
			7	-0.003026	9	0.293988
			BIAS CORR	0.005145		
			VAR COEFF	0.000886		0.470635
			EFFICIENCY	99.91		99.50
12	9	4	1	1.113904	3	0.755876
			2	-0.075039	5	0.394646
			3	-0.028044	7	0.263465
			5	-0.010821	9	0.328394
			BIAS CORR	0.005841		
			VAR COEFF	0.000887		0.472507
			EFFICIENCY	99.78		99.11
12	9	3	1	1.117698	4	0.833552
			2	-0.092050	7	0.314787
			3	-0.025648	9	0.331089
			BIAS CORR	0.006557		
			VAR COEFF	0.000890		0.476025
			EFFICIENCY	99.43		98.37
12	9	1	1	1.070517	6	0.657246
			3	-0.070517	9	0.369510
			BIAS CORR	0.007787		
			VAR COEFF	0.000902		0.487787
			EFFICIENCY	98.07		96.00
12	9	1	1	1.000000	9	0.550523
			BIAS CORR	0.013889		
			VAR COEFF	0.000965		0.550409
			EFFICIENCY	91.73		85.08
12	8	1	1	1.111650	1	0.712262
			2	-0.074800	2	0.487194
			3	-0.021997	3	0.359771
			4	-0.008179	4	0.278166
			5	-0.003480	5	0.221501
			6	-0.001608	6	0.179835
			7	-0.000780	7	0.147867
			8	-0.000806	8	0.513073

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				EFF(M/N)		
				0.004849		0.529193
				0.000885		100.00
				100.00		66.00
				99.99		
12	5	7	1	1.111704	2	0.689135
			2	-0.074305	3	0.360458
			3	-0.022000	4	0.278500
			4	-0.008181	5	0.221700
			5	-0.003482	6	0.174969
			6	-0.002172	7	0.147965
			8	-0.001064	8	0.513371
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.004864		0.529482
				0.000885		99.95
				99.99		
12	6	6	1	1.111947	2	0.960995
			2	-0.074831	4	0.401078
			3	-0.022013	5	0.222086
			4	-0.010659	6	0.180220
			6	-0.003378	7	0.148144
			7	-0.001066	8	0.513894
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.004891		0.529978
				0.000885		99.85
				99.97		
12	8	5	1	1.112535	2	0.963615
			2	-0.074894	4	0.503011
			3	-0.022043	6	0.257473
			4	-0.012573	7	0.148472
			7	-0.003026	8	0.514795
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.005145		0.530805
				0.000886		99.70
				99.42		
12	8	4	1	1.113404	3	0.897260
			2	-0.075039	6	0.444145
			3	-0.028044	7	0.210624
			5	-0.010821	8	0.516370
				BIAS CORR		
				VAR COEFF		
				0.005841		0.532260
				0.000887		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	99.79	99.42
12	8	3	1	1.117698	3	1.082987
			2	-0.092050	6	0.438352
			4	-0.025648	8	0.568722
				BIAS CORR		0.006557
				VAR COEFF		0.000890
				EFFICIENCY	99.43	98.91
12	5	2	1	1.070517	5	0.843789
			3	-0.070517	8	0.622382
				BIAS CORR		0.007787
				VAR COEFF		0.000902
				EFFICIENCY	98.08	97.42
12	8	1	1	1.000000	8	0.846371
				BIAS CORR		0.013889
				VAR COEFF		0.000965
				EFFICIENCY	91.74	89.92
2	7	7	1	1.111855	1	0.825705
			2	-0.074821	2	0.565477
			3	-0.022008	3	0.418245
			4	-0.008186	4	0.324067
			5	-0.003487	5	0.258607
			6	-0.001614	6	0.211000
			7	-0.001738	7	0.870957
				BIAS CORR		0.005054
				VAR COEFF		0.000885
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.97	97.41
12	7	1	1	1.111962	2	0.799679
			2	-0.074833	3	0.419082
			3	-0.022013	4	0.324489
			4	-0.008190	5	0.259063
			5	-0.004635	6	0.211177
			7	-0.002291	7	0.871958
				BIAS CORR		0.005074
				VAR COEFF		0.000885
				EFFICIENCY	99.99	99.94

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE			
12	7	5	1	1.112535	2	1.115914			
			2	-0.074894	4	0.467077			
			3	-0.022043	5	0.259556			
			4	-0.012573	6	0.211506			
			7	-0.003026	7	0.872623			
			BIAS CORR	0.005145					
			VAR COEFF	0.000886		0.609457			
	EFFICIENCY	99.94		99.83					
12	7	4	1	1.113904	2	1.119295			
			2	-0.075039	4	0.653014			
			3	-0.028044	6	0.301884			
			5	-0.010821	7	0.874492			
			BIAS CORR	0.005841					
			VAR COEFF	0.000887		0.610586			
			EFFICIENCY	99.81		99.64			
12	7	3	1	1.117698	3	0.997505			
			2	-0.092050	5	0.525702			
			4	-0.025648	7	0.950084			
			BIAS CORR	0.006557					
			VAR COEFF	0.000890		0.612571			
			EFFICIENCY	99.45		99.32			
			12	7	2	1	1.070517	4	1.108040
3	-0.070517	7				1.026220			
BIAS CORR	0.007787								
VAR COEFF	0.000902					0.618779			
EFFICIENCY	98.10					98.32			
12	7	1				1	1.000000	7	1.292717
						BIAS CORR	0.013889		
			VAR COEFF	0.000969		0.652850			
			EFFICIENCY	91.76		93.23			
			12	6	0	1	1.112290	1	0.982665
						2	-0.074868	2	0.674141
						3	-0.072030	3	0.499749
4	-0.008202	4				0.388387			
5	-0.003900	5				0.311455			

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
			6	-0.003690	6	1.470206
			BIAS CORR	0.005255		
			VAR COEFF	0.000885		0.715401
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.93		48.82
12	6	5	1	1.112537	2	0.952989
			2	-0.074894	3	0.500813
			3	-0.022043	4	0.388938
			4	-0.010693	5	0.311902
			6	-0.004907	6	1.471452
			BIAS CORR	0.005381		
			VAR COEFF	0.000886		0.715952
			EFFICIENCY	99.98		99.92
12	6	4	1	1.113904	2	1.331209
			2	-0.075039	4	0.559473
			3	-0.028044	5	0.312469
			5	-0.010821	6	1.473686
			BIAS CORR	0.005841		
			VAR COEFF	0.000887		0.716911
			EFFICIENCY	99.85		99.79
12	6	3	1	1.117698	2	1.335837
			2	-0.092050	4	0.783653
			4	-0.025648	6	1.585791
			BIAS CORR	0.006557		
			VAR COEFF	0.000890		0.718548
			EFFICIENCY	99.49		99.56
12	6	2	1	1.070517	3	1.506328
			3	-0.070517	6	1.696553
			BIAS CORR	0.007787		
			VAR COEFF	0.000902		0.723639
			EFFICIENCY	98.14		98.86
12	6	1	1	1.000000	6	1.998913
			BIAS CORR	0.013889		
			VAR COEFF	0.000969		0.748740
			EFFICIENCY	91.80		95.55

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE			
12	5	3	1	1.113241	1	1.212792			
			2	-0.074969	2	0.634083			
			3	-0.022079	3	0.620316			
			4	-0.008237	4	0.484145			
			5	-0.007956	5	2.527673			
			BIAS CORR	0.005800					
			VAR COEFF	0.000886		0.867655			
EFFICIENCY	100.00		100.00						
			EFF(M/N)	99.84		40.25			
12	5	4	1	1.113904	2	1.178469			
			2	-0.075039	3	0.621753			
			3	-0.028044	4	0.484927			
			5	-0.010821	5	2.530419			
			BIAS CORR	0.005841					
			VAR COEFF	0.000887		0.868494			
			EFFICIENCY	99.94		99.90			
12	5	2	1	1.117698	2	1.648624			
			2	-0.092050	4	0.696903			
			4	-0.025648	5	2.535431			
			BIAS CORR	0.006557					
			VAR COEFF	0.000890		0.869973			
			EFFICIENCY	99.58		99.73			
			12	5	2	1	1.070517	3	1.476788
3	-0.070517	5				2.715544			
BIAS CORR	0.007787								
VAR COEFF	0.000902					0.873407			
EFFICIENCY	98.23					99.34			
12	5	1				1	1.000000	5	3.188366
						BIAS CORR	0.013889		
			VAR COEFF	0.000965		0.892824			
			EFFICIENCY	91.88		97.18			
			12	4	4	1	1.115434	1	1.579053
						2	-0.075202	2	1.089875
						3	-0.022193	3	0.814311
4	-0.018035	4				4.550517			
BIAS CORR	0.006480								

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF EFFICIENCY EFF(M/N)	0.000888 100.00 99.63	1.100862 100.00 31.73
12	4	3	1	1.117698	2	1.538774
			2	-0.092050	3	0.816459
			4	-0.025648	4	4.557288
				BIAS CORR VAR COEFF EFFICIENCY	0.006557 0.000890 99.79	1.102285 99.87
12	4	2	1	1.070517	2	2.157481
			3	-0.070517	4	4.846416
				BIAS CORR VAR COEFF EFFICIENCY	0.007787 0.000902 98.43	1.104836 99.64
12	4	1	1	1.000000	4	5.374843
				BIAS CORR VAR COEFF EFFICIENCY	0.013889 0.000965 92.07	1.119541 98.33
12	3	3	1	1.121000	1	2.239417
			2	-0.075793	2	1.553856
			3	-0.045207	3	8.943521
				BIAS CORR VAR COEFF EFFICIENCY EFF(M/N)	0.007576 0.000893 100.00 99.11	1.500719 100.00 23.27
12	3	2	1	1.070517	2	2.191861
			3	-0.070517	3	8.963732
				BIAS CORR VAR COEFF EFFICIENCY	0.007787 0.000902 98.94	1.503582 99.81
12	3	1	1	1.000000	3	9.958393
				BIAS CORR VAR COEFF EFFICIENCY	0.013889 0.000965 92.95	1.513903 99.13



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
12	2	2	1	1.137699	1	3.712088
			2	-0.137699	2	20.813193
			BIAS CORR	0.009527		
			VAR COEFF	0.000907		2.333847
			EFFICIENCY	100.00		100.00
		EFF(M/N)	97.59		14.97	
12	2	1	1	1.000000	2	21.944585
			BIAS CORR	0.013889		
			VAR COEFF	0.000965		2.341725
			EFFICIENCY	93.99		99.66
12	1	1	1	1.000000	1	72.000000
			BIAS CORR	0.013889		
			VAR COEFF	0.000965		5.000000
			EFFICIENCY	100.00		100.00
		EFF(M/N)	91.73		6.99	
12	13	13	1	1.112631	1	0.459592
			2	-0.074895	2	0.315383
			3	-0.022275	3	0.233548
			4	-0.008397	4	0.181024
			5	-0.003635	5	0.144459
			6	-0.001715	6	0.117465
			7	-0.000854	7	0.096609
			8	-0.000438	8	0.079872
			9	-0.000226	9	0.063965
			10	-0.000114	10	0.053987
			11	-0.000054	11	0.043191
			12	-0.000022	12	0.032647
			13	-0.000005	13	0.017997
				BIAS CORR	0.003677	
	VAR COEFF	0.000641		0.321414		
	EFFICIENCY	100.00		100.00		
	EFF(M/N)	100.00		100.00		
12	13	12	1	1.112634	2	0.447359
			2	-0.074895	3	0.233904
			3	-0.022275	4	0.181183
			4	-0.008397	5	0.144546
			5	-0.003635	6	0.117519

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	J	SCALE
			6	-0.001715	7	0.096647
			7	-0.000854	8	0.079899
			8	-0.000438	9	0.065986
			9	-0.000226	10	0.054003
			10	-0.000115	11	0.043204
			11	-0.000055	12	0.032656
			12	-0.000029	13	0.018002
			BIAS CORR	0.003693		
			VAR COEFF	0.000641		0.321501
			EFFICIENCY	100.00		99.97
12	13	11	1	1.112641	2	0.621124
			2	-0.074896	4	0.262032
			3	-0.022275	5	0.144713
			4	-0.008398	6	0.117621
			5	-0.003635	7	0.096714
			6	-0.001716	8	0.079947
			7	-0.000855	9	0.066022
			8	-0.000438	10	0.054030
			9	-0.000227	11	0.043224
			10	-0.000162	12	0.032671
			12	-0.000041	13	0.018010
			BIAS CORR	0.003704		
			VAR COEFF	0.000641		0.321644
			EFFICIENCY	100.00		99.93
13	13	10	1	1.112655	2	0.622160
			2	-0.074897	4	0.363226
			3	-0.022276	6	0.169224
			4	-0.008398	7	0.096834
			5	-0.003635	8	0.080030
			6	-0.001716	9	0.066081
			7	-0.000855	10	0.054075
			8	-0.000439	11	0.043257
			9	-0.000316	12	0.032695
			11	-0.000122	13	0.018023
			BIAS CORR	0.003746		
			VAR COEFF	0.000641		0.321866
			EFFICIENCY	100.00		99.86
12	13	9	1	1.112682	2	0.623269

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
			2	-0.074906	4	0.363952
			3	-0.022277	6	0.237155
			4	-0.008399	8	0.113729
			5	-0.003636	9	0.066198
			6	-0.001717	10	0.054158
			7	-0.001167	11	0.043318
			9	-0.000463	12	0.032737
			11	-0.000122	13	0.019045
			BIAS CORR	0.003755		
			VAR COEFF	0.000642		0.322249
			EFFICIENCY	100.00		99.74
13	13	8	1	1.112737	3	0.557083
			2	-0.074906	5	0.291992
			3	-0.022280	7	0.196065
			4	-0.008401	9	0.093130
			5	-0.003637	10	0.054280
			6	-0.002314	11	0.043406
			8	-0.000904	12	0.032799
			10	-0.000294	13	0.018077
			BIAS CORR	0.003818		
			VAR COEFF	0.000642		0.322805
			EFFICIENCY	99.99		99.57
13	13	7	1	1.112856	3	0.698270
			2	-0.074918	6	0.286373
			3	-0.022286	8	0.163449
			4	-0.003405	10	0.075318
			5	-0.004830	11	0.043572
			7	-0.002038	12	0.032913
			10	-0.000380	13	0.018135
			BIAS CORR	0.003848		
			VAR COEFF	0.000642		0.323796
			EFFICIENCY	99.98		99.26
13	13	6	1	1.113112	4	0.615818
			2	-0.074944	7	0.236669
			3	-0.022296	9	0.136780
			4	-0.010946	11	0.059132
			6	-0.004103	12	0.033111
			9	-0.000821	13	0.018234

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR VAR COEFF EFFICIENCY		
				0.003950 0.000642 99.95		0.325428 98.77
13	13	5	1	1.113736	5	0.549970
			2	-0.075009	8	0.197655
			3	-0.022329	10	0.114811
			4	-0.012909	12	0.043303
			7	-0.003490	13	0.018445
				BIAS CORR VAR COEFF EFFICIENCY		
				0.004277 0.000642 99.90		0.328756 97.77
11	13	4	1	1.115240	6	0.584703
			2	-0.075163	10	0.152536
			3	-0.032739	12	0.044215
			6	-0.007338	13	0.018804
				BIAS CORR VAR COEFF EFFICIENCY		
				0.004580 0.000643 99.76		0.334888 95.98
13	13	3	1	1.119126	7	0.535281
			2	-0.092177	11	0.125961
			4	-0.026949	13	0.023630
				BIAS CORR VAR COEFF EFFICIENCY		
				0.005529 0.000645 99.40		0.347512 92.49
13	13	2	1	1.072507	8	0.526097
			3	-0.072507	12	0.097757
				BIAS CORR VAR COEFF EFFICIENCY		
				0.006587 0.000654 98.05		0.387033 83.05
13	13	1	1	1.000000	11	0.318092
				BIAS CORR VAR COEFF EFFICIENCY		
				0.011834 0.000700 91.61		0.500481 64.22
13	12	12	1	1.112634	1	0.498365
			2	-0.074895	2	0.342037

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
			3	-0.022275	3	0.253330
			4	-0.008397	4	0.196403
			5	-0.003635	5	0.156780
			6	-0.001715	6	0.127539
			7	-0.000854	7	0.104960
			8	-0.000438	8	0.086858
			9	-0.000226	9	0.071848
			10	-0.000115	10	0.058974
			11	-0.000055	11	0.047488
			12	-0.000029	12	0.061664
			BIAS CORR	0.003693		
			VAR COEFF	0.000641		0.345182
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		92.31
12	12	11	1	1.112641	2	0.485159
			2	-0.074896	3	0.253723
			3	-0.022275	4	0.196580
			4	-0.008398	5	0.156978
			5	-0.003635	6	0.127600
			6	-0.001716	7	0.105003
			7	-0.000855	8	0.086990
			8	-0.000438	9	0.071872
			9	-0.000227	10	0.058992
			10	-0.000162	11	0.047503
			12	-0.000041	12	0.061682
			BIAS CORR	0.003704		
			VAR COEFF	0.000641		0.348284
			EFFICIENCY	100.00		99.97
12	12	10	1	1.112655	2	0.673672
			2	-0.074897	4	0.284290
			3	-0.022276	5	0.157066
			4	-0.008398	6	0.127715
			5	-0.003635	7	0.105080
			6	-0.001716	8	0.086946
			7	-0.000855	9	0.071914
			8	-0.000439	10	0.059024
			9	-0.000316	11	0.047527
			11	-0.000122	12	0.061713
			BIAS CORR	0.003746		

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF		0.348452
				EFFICIENCY	100.00	99.92
12	12	9	1	1.112682	2	0.674838
			2	-0.074900	4	0.394146
			3	-0.022277	6	0.183734
			4	-0.008399	7	0.105216
			5	-0.003636	8	0.087041
			6	-0.001717	9	0.071983
			7	-0.001167	10	0.059076
			9	-0.000463	11	0.047567
			11	-0.000122	12	0.061761
				BIAS CORR		
				VAR COEFF		0.348714
				EFFICIENCY	100.00	99.85
12	12	8	1	1.112737	2	0.676113
			2	-0.074900	4	0.394976
			3	-0.022280	6	0.257573
			4	-0.008401	8	0.123670
			5	-0.003637	9	0.072118
			6	-0.002314	10	0.059174
			8	-0.000904	11	0.047638
			10	-0.000294	12	0.061847
				BIAS CORR		
				VAR COEFF		0.349166
				EFFICIENCY	99.99	95.72
12	12	7	1	1.112856	3	0.604491
			2	-0.074918	5	0.317035
			3	-0.022286	7	0.213124
			4	-0.008405	9	0.101428
			5	-0.004830	10	0.059316
			7	-0.002038	11	0.047743
			10	-0.000380	12	0.061971
				BIAS CORR		
				VAR COEFF		0.349823
				EFFICIENCY	99.98	99.53
12	12	6	1	1.113112	3	0.757980
			2	-0.074944	6	0.311129

TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.90

N	M	L	k	LOCATION	k	SCALE			
11	12	1	3	=0.022749	8	0.177413			
			4	=0.010446	10	0.087767			
			6	=0.004107	11	0.047430			
			7	=0.000871	12	0.021197			
			BIAS CORR		0.003496				
			VAR CORR		0.000442		0.350447		
			EFFICIENCY		97.96		79.20		
11	12	2	1	1.113736	8	0.658747			
			7	=0.074007	9	0.757619			
			3	=0.077374	4	0.147740			
			4	=0.017404	11	0.064480			
			7	=0.003496	12	0.027586			
			BIAS CORR		0.000771				
			VAR CORR		0.000647		0.357486		
EFFICIENCY		97.96		78.65					
11	12	3	1	1.113736	8	0.658747			
			7	=0.076163	9	0.710430			
			3	=0.037387	11	0.126414			
			4	=0.017338	12	0.074171			
			BIAS CORR		0.000401				
			VAR CORR		0.000401		0.346917		
			EFFICIENCY		97.76		77.55		
11	12	4	1	1.117124	8	0.637117			
			7	=0.073177	10	0.127312			
			3	=0.076494	11	0.075047			
			BIAS CORR		0.000374				
			VAR CORR		0.000401		0.346777		
			EFFICIENCY		97.94		76.87		
			11	12	5	1	1.072807	8	0.626047
7	=0.072807	12				0.047157			
BIAS CORR		0.000307							
VAR CORR		0.000444					0.307311		
EFFICIENCY		98.94					87.96		
11	12	1				1	1.000000	11	0.810077
						BIAS CORR		0.011034	
			VAR CORR		0.000700		0.500431		

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 12)

SHAPE PARAMETER = 0.50

N	M	L	EFFICIENCY		LOCATION	SCALE
			91.01	69.97		
11	11	11	1	1.117645	1	0.045614
			2	=0.074896	2	0.274962
			3	=0.072275	3	0.277514
			4	=0.008948	4	0.219247
			5	=0.003625	5	0.171924
			6	=0.001714	6	0.139973
			7	=0.000895	7	0.119979
			8	=0.000439	8	0.099617
			9	=0.000227	9	0.079374
			10	=0.000110	10	0.069060
			11	=0.000046	11	0.139770
			BIAS CORR	0.003734	0.300005	
			VAN CORR	0.002641	100.00	
			EFFICIENCY	100.00	84.98	
			EFFICIENCY	100.00		
11	11	10	1	1.117655	2	0.041765
			2	=0.074897	3	0.271941
			3	=0.072274	4	0.218647
			4	=0.008948	5	0.172076
			5	=0.003625	6	0.140044
			6	=0.001714	7	0.118379
			7	=0.000895	8	0.099649
			8	=0.000439	9	0.079883
			9	=0.000227	10	0.068840
			11	=0.000127	11	0.138973
						BIAS CORR
			VAN CORR	0.002641	99.97	
			EFFICIENCY	100.00		
11	11	9	1	1.117687	2	0.037816
			2	=0.074906	3	0.261347
			3	=0.072277	4	0.217290
			4	=0.008949	5	0.169177
			5	=0.003626	6	0.138667
			6	=0.001717	7	0.098716
			7	=0.000897	8	0.079493
			8	=0.000441	9	0.068879
			11	=0.000127	11	0.138047



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.90

L	M	L	I	LOCATION	I	SCALE
				BIAS CORR VAN COEFF EFFICIENCY		
				0.003769 0.000647 100.00		0.300783 99.71
11	11	0	1	1.112727	2	0.734197
			2	=0.074904	4	0.437096
			3	=0.077780	6	0.291677
			4	=0.008401	7	0.186670
			5	=0.003637	8	0.099877
			6	=0.002314	9	0.074605
			7	=0.000904	10	0.049947
			11	=0.000796	11	0.189716
				BIAS CORR VAN COEFF EFFICIENCY		0.301173 99.81
11	11	7	1	1.117084	2	0.740691
			2	=0.074916	4	0.437076
			3	=0.077781	6	0.291711
			4	=0.008406	8	0.184170
			5	=0.003636	9	0.074446
			7	=0.002036	10	0.049769
			11	=0.000780	11	0.189670
				BIAS CORR VAN COEFF EFFICIENCY		0.301664 99.87
11	11	4	1	1.113117	2	0.667996
			2	=0.074944	4	0.347067
			3	=0.077770	6	0.234307
			4	=0.010742	7	0.111460
			6	=0.004103	10	0.043080
			7	=0.000021	11	0.189716
				BIAS CORR VAN COEFF EFFICIENCY		0.307441 99.48
11	11	0	1	1.113724	2	0.63167
			2	=0.075007	4	0.347132
			3	=0.077827	6	0.174117
			4	=0.017907	11	0.071761

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 19)

SHAPE PARAMETER = 0.50

N	M	L		LOCATION		SCALE
			7	-0.003490	11	0.136309
			BIAS CORR	0.004277		
			VAN COEFF	0.000642		0.383867
			EFFICIENCY	99.90		99.11
17	11	0	1	1.119740	6	0.734304
			2	-0.079163	7	0.783766
			3	-0.032734	8	0.169709
			6	-0.007330	11	0.199863
			BIAS CORR	0.004980		
			VAN COEFF	0.000643		0.386743
			EFFICIENCY	99.76		98.50
17	11	1	1	1.117174	6	0.781330
			7	-0.047177	7	0.773711
			8	-0.076444	11	0.190370
			BIAS CORR	0.009374		
			VAN COEFF	0.000645		0.341741
			EFFICIENCY	99.40		97.17
17	11	2	1	1.077407	7	0.631046
			3	-0.077407	11	0.149117
			BIAS CORR	0.006587		
			VAN COEFF	0.000684		0.506446
			EFFICIENCY	98.08		93.47
17	11	3	1	1.000000	11	0.318072
			BIAS CORR	0.011836		
			VAN COEFF	0.000700		0.507481
			EFFICIENCY	91.61		76.07
17	19	1	1	1.117471	1	0.603347
			2	-0.074844	2	0.414327
			3	-0.077777	3	0.307744
			4	-0.008344	4	0.238904
			5	-0.003636	5	0.170687
			6	-0.001714	6	0.109443
			7	-0.000889	7	0.124317
			8	-0.000439	8	0.104476
			9	-0.000220	9	0.086910
			10	-0.000227	10	0.740254

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.56

N	M	L	I	LOCATION		I	SCALE	
				BIAS CORR	VAR COEFF		EFFICIENCY	EFF(M/I)
11	10	4	1	0.003798	0.000641	2	0.419674	100.00
			2	100.00	100.00	3	76.34	
			3	1.112687	-0.074901	4	0.987017	
			4	-0.072777	-0.008344	5	0.907784	
			5	-0.008344	-0.003634	6	0.738740	
			6	-0.003634	-0.001717	7	0.190817	
			7	-0.001717	0.002894	8	0.155578	
			8	0.002894	0.000607	9	0.128373	
			9	0.000607	-0.000744	10	0.106770	
			10	-0.000744	0.001804		0.084446	
				0.001804			0.280992	
				0.000447			0.414778	99.94
				100.00				
11	10	4	1	1.117131	-0.074906	2	0.816464	
			2	-0.074906	-0.077786	3	0.746176	
			3	-0.077786	-0.009401	4	0.191061	
			4	-0.009401	-0.003637	5	0.155444	
			5	-0.003637	-0.002314	6	0.126441	
			6	-0.002314	0.000704	7	0.104744	
			7	0.000704	-0.000744	8	0.084407	
			8	-0.000744	0.003818	9	0.064407	
			9	0.003818	0.000647	10	0.280688	
			10	-0.000647	99.97		0.470076	99.91
				0.000647				
				99.97				
11	10	7	1	1.117886	-0.074918	2	0.816464	
			2	-0.074918	-0.077786	3	0.746176	
			3	-0.077786	-0.009406	4	0.191061	
			4	-0.009406	-0.004831	5	0.155444	
			5	-0.004831	-0.002038	6	0.126441	
			6	-0.002038	0.000704	7	0.104744	
			7	0.000704	-0.000744	8	0.084407	
			8	-0.000744	0.003844	9	0.064407	
			9	0.003844	0.000647	10	0.280747	
			10	-0.000647	99.98		0.470113	99.91
				0.000647				
				99.98				

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.90

N	M	L	J	LOCATION	J	SCALE					
11	11	6	1	1.113112	2	0.820050					
			2	-0.074944	4	0.480052					
			3	-0.022298	6	0.314262					
			4	-0.010946	8	0.191777					
			6	-0.004103	9	0.084302					
			9	-0.000021	10	0.291210					
			BIAS CORR			0.003450					
			VAR COEFF			0.000647		0.421089			
			EFFICIENCY			99.96		99.69			
			11	12	5	1	1.113736	3	0.734002		
2	-0.079009	6				0.386116					
3	-0.022329	7				0.261014					
4	-0.012409	9				0.129381					
7	-0.003470	10				0.291870					
BIAS CORR						0.004777					
VAR COEFF						0.000647		0.422073			
EFFICIENCY						99.90		99.47			
11	13	4				1	1.114740	3	0.621587		
						2	-0.079163	6	0.374887		
			3	-0.022739	8	0.219777					
			4	-0.007338	10	0.281771					
			BIAS CORR			0.004880					
			VAR COEFF			0.000643		0.423850			
			EFFICIENCY			99.75		99.00			
			11	14	3	1	1.117176	6	0.722814		
						2	-0.072177	8	0.262885		
						4	-0.026949	10	0.284019		
BIAS CORR						0.003379					
VAR COEFF						0.000645		0.427735			
EFFICIENCY						99.40		98.10			
11	15	2				1	1.077807	6	0.776648		
						3	-0.077807	10	0.229110		
						BIAS CORR			0.006887		
						VAR COEFF			0.000659		0.438570
			EFFICIENCY			98.08		99.58			
			11	17	1	1	1.000000	10	0.474196		

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	P	L	I	LOCATION	I	SCALE
				BIAS CORR	0.011834	
				VAR COEFF	0.000700	0.902017
				EFFICIENCY	91.61	83.39
11	V	V	1	1.112728	1	0.676059
			2	-0.074909	2	0.464607
			3	-0.022279	3	0.344674
			4	-0.008400	4	0.267794
			5	-0.003637	5	0.214399
			6	-0.001711	6	0.179091
			7	-0.000891	7	0.144718
			8	-0.000441	8	0.120469
			9	-0.000240	9	0.098657
				BIAS CORR	0.003890	
				VAR COEFF	0.000647	0.467943
				EFFICIENCY	100.00	100.00
				EFFICIENCY	99.99	68.69
12	V	"	1	1.117795	2	0.658835
			2	-0.074909	3	0.349741
			3	-0.077781	4	0.268064
			4	-0.008401	5	0.214910
			5	-0.003638	6	0.179195
			6	-0.001714	7	0.144971
			7	-0.001171	8	0.121076
			8	-0.000638	9	0.098838
				BIAS CORR	0.003899	
				VAR COEFF	0.000647	0.468131
				EFFICIENCY	100.00	99.99
13	V	7	1	1.117897	2	0.919914
			2	-0.074918	4	0.387487
			3	-0.077786	5	0.214835
			4	-0.008409	6	0.179383
			5	-0.004830	7	0.144179
			6	-0.001779	8	0.121175
			7	-0.000639	9	0.099149
				BIAS CORR	0.003913	
				VAR COEFF	0.000647	469447
				EFFICIENCY	99.99	99.99

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	i	LOCATION	j	SCALE					
12	9	6	1	1.113112	2	0.917374					
			2	-0.074944	4	0.537901					
			3	-0.022298	6	0.292081					
			4	-0.010946	7	0.149356					
			6	-0.004103	8	0.121292					
			9	-0.000871	9	0.429638					
			BIAS CORR			0.003490					
			VAR COEFF			0.000647		0.468931			
			EFFICIENCY			99.96		99.79			
			12	9	7	1	1.113736	2	0.919618		
2	-0.079009	4				0.539333					
3	-0.022329	6				0.294281					
4	-0.012909	8				0.171497					
7	-0.003490	9				0.430953					
BIAS CORR						0.004277					
VAR COEFF						0.000642		0.469799			
EFFICIENCY						99.91		99.61			
12	9	8				1	1.113740	3	0.823854		
						2	-0.079163	5	0.494869		
			3	-0.032739	7	0.249217					
			6	-0.007338	9	0.472913					
			BIAS CORR			0.004980					
			VAR COEFF			0.000643		0.471097			
			EFFICIENCY			99.77		97.39			
			12	9	9	1	1.119126	4	0.910868		
						2	-0.072177	7	0.394904		
						6	-0.026449	9	0.479980		
BIAS CORR						0.003879					
VAR COEFF						0.000649		0.473817			
EFFICIENCY						99.40		98.76			
12	9	2				1	1.072907	5	0.976417		
						3	-0.072907	9	0.394633		
						BIAS CORR			0.006987		
						VAR COEFF			0.000694		0.487436
			EFFICIENCY			98.06		97.00			
			12	9	1	1	1.000000	9	0.796607		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 17)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		0.528043
				EFFICIENCY		88.62
17	P	0	1	1.112845	1	0.769051
			2	-0.074917	2	0.928937
			3	-0.022289	3	0.992832
			4	-0.008404	4	0.995648
			5	-0.003641	5	0.245199
			6	-0.001721	6	0.200748
			7	-0.000860	7	0.166778
			8	-0.001017	8	0.706404
				BIAS CORR		
				VAR COEFF		0.528918
				EFFICIENCY		100.00
				EFF(M/N)		60.77
17	0	7	1	1.112846	7	0.744971
			2	-0.074922	2	0.993904
			3	-0.022288	3	0.999973
			4	-0.008406	4	0.249947
			5	-0.003642	5	0.200874
			6	-0.001721	6	0.166872
			8	-0.001316	8	0.706741
				BIAS CORR		
				VAR COEFF		0.529161
				EFFICIENCY		99.99
17	0	6	1	1.112130	7	1.047983
			2	-0.074946	4	0.442179
			3	-0.022299	9	0.249709
			4	-0.010947	6	0.201114
			6	-0.003619	7	0.167041
			8	-0.001319	8	0.707340
				BIAS CORR		
				VAR COEFF		0.529969
				EFFICIENCY		99.89
17	0	5	1	1.112736	7	1.044878
			2	-0.079009	4	0.614269
			3	-0.022329	6	0.288884

**TABLE II**  
**COEFFICIENTS FOR ESTIMATION OF**  
**LOCATION AND SCALE PARAMETERS OF A**  
**WEIBULL POPULATION FROM L-ORDER STATISTICS**  
**(SAMPLE SIZES 11 TO 13)**  
**SHAPE PARAMETER = 0.50**

N	M	L	I	LOCATION	I	SCALE
			4	-0.012909	7	0.167334
			7	-0.003490	8	0.708303
			BIAS CORR	0.004277		
			VAR COEFF	0.000642		0.530205
			EFFICIENCY	99.92		99.76
13	0	4	1	1.115240	2	1.047775
			2	-0.075163	4	0.616102
			3	-0.032734	6	0.404664
			6	-0.007338	8	0.760127
			BIAS CORR	0.004580		
VAR COEFF	0.000643		0.531350			
EFFICIENCY	99.78		99.94			
13	0	4	1	1.119126	3	1.176598
			2	-0.097177	6	0.489234
			4	-0.026949	8	0.771527
			BIAS CORR	0.003129		
			VAR COEFF	0.000619		0.533447
EFFICIENCY	99.42		99.15			
13	4	2	1	1.072901	5	0.929880
			3	-0.072901	8	0.634709
			BIAS CORR	0.006587		
			VAR COEFF	0.000654		0.534838
			EFFICIENCY	95.07		97.98
13	4	1	1	1.000000	8	1.047052
			BIAS CORR	0.011834		
			VAR COEFF	0.000700		0.534240
			EFFICIENCY	91.62		92.11
13	7	7	1	1.113083	1	0.842243
			2	-0.074941	2	0.614407
			3	-0.022297	3	0.497006
			4	-0.008412	4	0.356288
			5	-0.003647	5	0.286530
			6	-0.001727	6	0.239479
			7	-0.000208	7	1.148270
			BIAS CORR	0.004211		
			VAR COEFF	0.000642		0.608177
			EFFICIENCY			



TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				99.96		92.85
11	7	0	1	1.115186	2	0.870853
			2	-0.074952	3	0.497822
			3	-0.022307	4	0.356699
			4	-0.008416	5	0.26777
			5	-0.004845	6	0.235650
			6	-0.002671	7	1.140940
			7	0.004225		
				0.000642		0.608494
				99.99		99.99
13	7	3	1	1.113736	2	1.211514
			2	-0.075004	4	0.915176
			3	-0.022329	5	0.287238
			4	-0.012409	6	0.235458
			5	-0.003440	7	1.150068
			6	0.004277		
			7	0.000642		
				99.94		99.86
11	7	4	1	1.115240	2	1.214467
			2	-0.075163	4	0.716564
			3	-0.032714	6	0.338641
			4	-0.007338	7	1.151476
			5	0.004580		
			6	0.000642		
			7	0.000642		
				99.40		99.71
13	7	5	1	1.114126	3	1.040146
			2	-0.042177	5	0.980058
			3	-0.026944	7	1.234020
			4	0.009924		
			5	0.000642		
			6	0.000642		
			7	0.000642		
				99.44		99.46
13	7	2	1	1.072907	4	1.217497
			2	-0.072907	7	1.326588
			3	0.006587		
			4	0.000642		
			5	0.000642		
			6	0.000642		
			7	0.000642		
				0.616303		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	J	LOCATION	J	SCALE
				EFFICIENCY	98.09	98.67
13	7	1	1	1.000000	7	1.632386
				BIAS CORR	0.011894	
				VAR COEFF	0.000700	0.642943
				EFFICIENCY	91.64	94.59
13	6	1	1	1.113971	1	1.362667
			2	-0.074992	2	0.732980
			3	-0.022321	3	0.546372
			4	-0.008429	4	0.427139
			5	-0.003661	5	0.344765
			6	-0.004169	6	1.877593
				BIAS CORR	0.004481	
				VAR COEFF	0.000642	0.715207
				EFFICIENCY	100.00	100.00
				(M/R/N)	99.91	94.94
13	6	1	1	1.113807	2	1.038531
			2	-0.079016	3	0.547406
			3	-0.022332	4	0.427673
			4	-0.010982	5	0.345049
			6	-0.009477	6	1.878938
				BIAS CORR	0.004900	
				VAR COEFF	0.000642	0.715671
				EFFICIENCY	99.98	99.94
13	6	4	1	1.119240	2	1.446132
			2	-0.079163	4	0.617286
			3	-0.032739	5	0.345720
			6	-0.007338	6	1.881271
				BIAS CORR	0.004980	
				VAR COEFF	0.000643	0.716453
				EFFICIENCY	99.84	99.83
13	6	1	1	1.119126	2	1.450155
			2	-0.092177	4	0.859969
			4	-0.076944	6	2.008189
				BIAS CORR	0.005929	
				VAR COEFF	0.000643	0.717722
				EFFICIENCY	99.45	99.65

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE	
13	6	2	1	1.072507	3	1.638821	
			3	-0.072507	6	2.133700	
			BIAS CORR		0.006587		
			VAR COEFF		0.000654		0.721800
			EFFICIENCY		98.13		99.09
13	6	1	1	1.000000	6	2.475305	
			BIAS CORR		0.011834		
			VAR COEFF		0.000700		0.742046
			EFFICIENCY		91.64		96.38
13	5	5	1	1.114602	1	1.312508	
			2	-0.075098	2	0.907438	
			3	-0.022371	3	0.678440	
			4	-0.008463	4	0.532478	
			5	-0.008670	5	3.150155	
			BIAS CORR		0.004875		
			VAR COEFF		0.000643		0.867470
EFFICIENCY		100.00		100.00			
LFF(M/N)		99.82		37.05			
13	5	4	1	1.115243	2	1.285045	
			2	-0.075164	3	0.679833	
			3	-0.028402	4	0.533181	
			5	-0.011678	5	3.153051	
			BIAS CORR		0.004906		
			VAR COEFF		0.000643		0.868197
EFFICIENCY		99.94		99.92			
13	5	3	1	1.119126	2	1.791784	
			2	-0.092177	4	0.768898	
			4	-0.026949	5	3.158154	
			BIAS CORR		0.005529		
			VAR COEFF		0.000645		0.869405
EFFICIENCY		99.58		99.78			
13	5	2	1	1.072507	3	1.616052	
			3	-0.072507	5	3.359285	
			BIAS CORR		0.006587		
VAR COEFF		0.000654		0.872279			

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	98.23	99.46
12	3	1	1	1.000000	5	3.888457
				BIAS CORR	0.011834	
				VAR COEFF	0.000700	0.888096
				EFFICIENCY	91.77	97.68
13	4	4	1	1.116925	1	1.710102
			2	-0.075337	2	1.186294
			3	-0.022484	3	0.890685
			4	-0.019104	4	5.562128
				BIAS CORR	0.005470	
				VAR COEFF	0.000644	1.100723
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.60	29.20
13	4	3	1	1.119126	2	1.678759
			2	-0.092177	3	0.892756
			4	-0.026949	4	5.569134
				BIAS CORR	0.005529	
				VAR COEFF	0.000645	1.101925
				EFFICIENCY	99.80	99.89
12	4	2	1	1.072507	2	2.345382
			3	-0.072507	4	5.889543
				BIAS CORR	0.006587	
				VAR COEFF	0.000654	1.104008
				EFFICIENCY	98.44	99.70
13	4	1	1	1.000000	4	6.474869
				BIAS CORR	0.011834	
				VAR COEFF	0.000700	1.116221
				EFFICIENCY	91.97	98.61
12	3	3	1	1.122717	1	2.426832
			2	-0.075932	2	1.691738
			3	-0.046784	3	10.759677
				BIAS CORR	0.006420	
				VAR COEFF	0.000648	1.500607
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.06	21.42

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.50

N	M	L	I	LOCATION	I	SCALE
13	3	2	1	1.072507	2	2.391876
			3	-0.072507	3	10.780266
			BIAS CORR	0.006587		
			VAR COEFF	0.000654		1.503028
			EFFICIENCY	98.97		99.84
15	3	1	1	1.000000	3	11.875050
			BIAS CORR	0.011834		
			VAR COEFF	0.000700		1.511665
			EFFICIENCY	92.47		99.27
17	2	2	1	1.139845	1	4.024694
			2	-0.139845	2	24.708836
			BIAS CORR	0.008099		
			VAR COEFF	0.000650		2.333764
			EFFICIENCY	100.00		100.00
			EFF(M/N)	97.51		13.77
19	2	1	1	1.000000	2	25.944563
			BIAS CORR	0.011834		
			VAR COEFF	0.000700		2.340438
			EFFICIENCY	93.94		99.72
13	1	1	1	1.000000	1	84.500004
			BIAS CORR	0.011834		
			VAR COEFF	0.000700		5.000000
			EFFICIENCY	100.00		100.00
			EFF(M/N)	91.61		6.43

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE		
11	11	11	1	1.085007	1	0.172411		
			2	-0.045653	2	0.146153		
			3	-0.018417	3	0.129293		
			4	-0.009116	4	0.116954		
			5	-0.004919	5	0.107155		
			6	-0.002952	6	0.098901		
			7	-0.001735	7	0.091592		
			8	-0.001084	8	0.084795		
			9	-0.000641	9	0.078082		
			10	-0.000355	10	0.070757		
			11	-0.000134	11	0.058021		
	BIAS CORR		0.029988					
	VAR COEFF		0.004223		0.162540			
	EFFICIENCY		100.00		100.00			
	EFF(M/N)		100.00		100.00			
11	11	10	1	1.085027	2	0.211435		
			2	-0.045654	3	0.129414		
			3	-0.018417	4	0.117050		
			4	-0.009116	5	0.107196		
			5	-0.004919	6	0.098971		
			6	-0.002953	7	0.091624		
			7	-0.001735	8	0.084840		
			8	-0.001083	9	0.078116		
			9	-0.000642	10	0.070789		
			10	-0.000305	11	0.058047		
				BIAS CORR		0.030197		
	VAR COEFF		0.004223		0.162612			
	EFFICIENCY		100.00		99.96			
11	11	9	1	1.085049	2	0.293106		
			2	-0.045657	4	0.168731		
			3	-0.018416	5	0.107237		
			4	-0.009119	6	0.099139		
			5	-0.004918	7	0.091620		
			6	-0.002954	8	0.084943		
			7	-0.001736	9	0.078159		
			8	-0.001084	10	0.070841		
			10	-0.000682	11	0.058087		
				BIAS CORR		0.030260		
				VAR COEFF		0.004223		0.162723

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	100.00	99.89
11	11	8	1	1.085087	2	0.293594
			2	-0.045664	4	0.236320
			3	-0.018410	6	0.141140
			4	-0.009126	7	0.091677
			5	-0.004916	8	0.085111
			6	-0.004096	9	0.078230
			8	-0.002192	10	0.070932
			10	-0.000682	11	0.058155
				BIAS CORR		
				0.030308		
				VAR COEFF		0.162912
				0.004223		
				EFFICIENCY		99.77
11	11	7	1	1.085161	3	0.314610
			2	-0.045652	5	0.217745
			3	-0.018436	7	0.129725
			4	-0.009109	8	0.085089
			5	-0.006812	9	0.078502
			7	-0.003605	10	0.071072
			9	-0.001547	11	0.058284
				BIAS CORR		
				0.030640		
				VAR COEFF		0.163266
				0.004223		
				EFFICIENCY		99.55
11	11	6	1	1.085309	3	0.315992
			2	-0.045681	5	0.218756
			3	-0.018419	7	0.189261
			4	-0.012216	9	0.106899
			6	-0.007053	10	0.071381
			9	-0.001940	11	0.058526
				BIAS CORR		
				0.030793		
				VAR COEFF		0.163921
				0.004224		
				EFFICIENCY		99.16
11	11	5	1	1.085584	4	0.408680
			2	-0.045687	7	0.224621
			3	-0.024132	9	0.107652
			5	-0.012031	10	0.071888
			8	-0.003733	11	0.058921
				BIAS CORR		
				0.031297		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF EFFICIENCY	0.004225 99.95	0.165017 98.50
11	11	4	1	1.036255	5	0.418937
			2	-0.057330	8	0.211436
			4	-0.022190	10	0.094976
			7	-0.006735	11	0.059744
				BIAS CORR		
				VAR COEFF		0.167242
				EFFICIENCY		97.19
11	11	3	1	1.087866	6	0.431825
			2	-0.066083	9	0.203963
			5	-0.021784	11	0.074165
				BIAS CORR		
				VAR COEFF		0.172494
				EFFICIENCY		94.23
11	11	2	1	1.062357	8	0.455353
			3	-0.062357	11	0.090840
				BIAS CORR		
				VAR COEFF		0.188052
				EFFICIENCY		86.43
11	11	1	1	1.000000	9	0.556268
				BIAS CORR		
				VAR COEFF		0.241926
				EFFICIENCY		67.19
11	10	10	1	1.085027	1	0.189757
			2	-0.045654	2	0.160891
			3	-0.018417	3	0.142239
			4	-0.009116	4	0.128827
			5	-0.004919	5	0.117952
			6	-0.002953	6	0.109009
			7	-0.001735	7	0.100946
			8	-0.001085	8	0.093507
			9	-0.000642	9	0.086377
			10	-0.000505	10	0.148919
				BIAS CORR		
				VAR COEFF		0.178810



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		90.75
11	10	9	1	1.085049	2	0.232751
			2	-0.045657	3	0.142439
			3	-0.018416	4	0.128938
			4	-0.009119	5	0.118003
			5	-0.004918	6	0.109091
			6	-0.002954	7	0.100986
			7	-0.001736	8	0.093645
			8	-0.001568	9	0.086419
			10	-0.000682	10	0.148992
				BIAS CORR		0.030260
				VAR COEFF		0.004223
				EFFICIENCY		100.00
						99.95
11	10	9	1	1.085087	2	0.322664
			2	-0.045664	4	0.185833
			3	-0.018410	5	0.118056
			4	-0.009126	6	0.109283
			5	-0.004916	7	0.100989
			6	-0.004096	8	0.093765
			8	-0.002192	9	0.086473
			10	-0.000682	10	0.149108
				BIAS CORR		0.030308
				VAR COEFF		0.004223
				EFFICIENCY		99.99
						99.88
11	10	7	1	1.085161	2	0.323240
			2	-0.045652	4	0.260273
			3	-0.018436	6	0.155540
			4	-0.009109	7	0.101063
			5	-0.006812	8	0.093961
			7	-0.003605	9	0.086561
			9	-0.001547	10	0.149309
				BIAS CORR		0.030640
				VAR COEFF		0.004223
				EFFICIENCY		99.99
						99.75
11	10	6	1	1.085309	3	0.346504
			2	-0.045681	5	0.239922

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
			3	-0.018419	7	0.143041
			4	-0.012216	8	0.093958
			6	-0.007053	9	0.086881
			9	-0.001940	10	0.149655
				BIAS CORR		
				0.030793		
				VAR COEFF		0.179692
				0.004224		
				EFFICIENCY		99.97
11	10	5	1	1.085584	3	0.437224
			2	-0.045687	6	0.265814
			3	-0.024132	8	0.131175
			5	-0.012031	9	0.087232
			8	-0.003733	10	0.150355
				BIAS CORR		
				0.031297		
				VAR COEFF		0.180490
				0.004225		
				EFFICIENCY		99.07
11	10	4	1	1.086255	4	0.450726
			2	-0.057330	7	0.248022
			4	-0.022190	9	0.119206
			7	-0.006735	10	0.151504
				BIAS CORR		
				0.032022		
				VAR COEFF		0.181822
				0.004228		
				EFFICIENCY		98.34
11	10	3	1	1.087866	5	0.462808
			2	-0.066083	8	0.234134
			5	-0.021784	10	0.178352
				BIAS CORR		
				0.034190		
				VAR COEFF		0.184545
				0.004234		
				EFFICIENCY		96.89
11	10	2	1	1.062357	7	0.479107
			3	-0.062357	10	0.207936
				BIAS CORR		
				0.038177		
				VAR COEFF		0.193553
				0.004252		
				EFFICIENCY		92.38
11	10	1	1	1.000000	9	0.556268
				BIAS CORR		
				0.048669		
				VAR COEFF		0.241926
				0.004335		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				97.41		73.91
				EFFICIENCY		
11	9	9	1	1.085080	1	0.211160
			2	-0.045657	2	0.178873
			3	-0.018420	3	0.158690
			4	-0.009116	4	0.143007
			5	-0.004922	5	0.131777
			6	-0.002953	6	0.121249
			7	-0.001737	7	0.112755
			8	-0.001087	8	0.104613
			9	-0.001189	9	0.274996
				BIAS CORR		0.198744
				VAR COEFF		100.00
				EFFICIENCY		100.00
				EFF(M/N)		81.78
11	9	8	1	1.085105	2	0.258852
			2	-0.045655	3	0.152854
			3	-0.018425	4	0.143139
			4	-0.009112	5	0.131841
			5	-0.004926	6	0.121346
			6	-0.002953	7	0.112806
			7	-0.002488	8	0.104679
			9	-0.001546	9	0.275146
				BIAS CORR		0.198852
				VAR COEFF		99.95
				EFFICIENCY		
11	9	7	1	1.085161	2	0.359159
			2	-0.045652	4	0.206609
			3	-0.018436	5	0.131913
			4	-0.009109	6	0.121572
			5	-0.006812	7	0.112820
			7	-0.003605	8	0.104822
			9	-0.001547	9	0.275369
				BIAS CORR		0.199019
				VAR COEFF		99.86
				EFFICIENCY		
11	9	6	1	1.085309	2	0.359857
			2	-0.045681	4	0.289830

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
			3	-0.018419	6	0.173284
			4	-0.012216	7	0.112921
			6	-0.007053	8	0.105058
			9	-0.001940	9	0.275753
				BIAS CORR		0.030793
				VAR COEFF		0.004224
				EFFICIENCY		99.98
11	9	5	1	1.085584	3	0.385835
			2	-0.045687	5	0.267479
			3	-0.024132	7	0.159668
			5	-0.012031	8	0.105082
			8	-0.003733	9	0.276595
				BIAS CORR		0.031297
				VAR COEFF		0.004225
				EFFICIENCY		99.95
11	9	6	1	1.086255	3	0.487314
			2	-0.057330	6	0.296549
			4	-0.022190	8	0.146756
			7	-0.006735	9	0.277979
				BIAS CORR		0.032022
				VAR COEFF		0.004228
				EFFICIENCY		98.89
11	9	3	1	1.087866	4	0.502777
			2	-0.066083	7	0.277384
			5	-0.021784	9	0.315417
				BIAS CORR		0.034190
				VAR COEFF		0.004234
				EFFICIENCY		99.74
11	9	2	1	1.062357	6	0.523427
			3	-0.062357	9	0.355334
				BIAS CORR		0.038177
				VAR COEFF		0.004252
				EFFICIENCY		99.33
11	9	1	1	1.000000	9	0.556268
				BIAS CORR		0.048669
				VAR COEFF		0.004335

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	97.41	82.15
11	5	5	1	1.085185	1	0.237816
			2	-0.045669	2	0.202363
			3	-0.018418	3	0.177894
			4	-0.004124	4	0.162747
			5	-0.004920	5	0.147768
			6	-0.002498	6	0.137638
			7	-0.001740	7	0.127529
			8	-0.002361	8	0.449390
				BIAS CORR	0.031027	
				VAR COEFF	0.004224	0.223701
				EFFICIENCY	100.00	100.00
				EFFIM/N1	99.98	72.66
11	6	7	1	1.085223	2	0.292460
			2	-0.045672	3	0.178091
			3	-0.018413	4	0.162908
			4	-0.004131	5	0.147870
			5	-0.004918	6	0.137758
			6	-0.004103	7	0.127596
			8	-0.002487	8	0.444675
				BIAS CORR	0.031069	
				VAR COEFF	0.004224	0.223810
				EFFICIENCY	100.00	99.74
11	8	9	1	1.085327	2	0.404930
			2	-0.045686	4	0.234073
			3	-0.018411	5	0.147964
			4	-0.012220	6	0.138076
			6	-0.006020	7	0.127624
			8	-0.002489	8	0.450149
				BIAS CORR	0.031126	
				VAR COEFF	0.004224	0.224048
				EFFICIENCY	99.99	99.84
11	8	9	1	1.085384	2	0.405785
			2	-0.045687	4	0.227479
			3	-0.024132	6	0.146066
			5	-0.012031	7	0.127751
			8	-0.003733	8	0.450954

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.031297	
				VAR COEFF	0.004225	0.224409
				EFFICIENCY	99.96	99.68
11	3	4	1	1.086255	3	0.435546
			2	-0.057330	5	0.302219
			4	-0.022190	7	0.160920
			7	-0.006735	8	0.452194
				BIAS CORR	0.032022	
				VAR COEFF	0.004228	0.225102
				EFFICIENCY	99.90	99.38
11	4	5	1	1.087866	3	0.550299
			2	-0.066083	6	0.235934
			5	-0.021784	8	0.501349
				BIAS CORR	0.034190	
				VAR COEFF	0.004234	0.226371
				EFFICIENCY	99.75	98.92
11	5	6	1	1.062357	5	0.580437
			3	-0.062357	8	0.551498
				BIAS CORR	0.038177	
				VAR COEFF	0.004252	0.230248
				EFFICIENCY	99.34	97.16
11	6	7	1	1.000000	8	0.772739
				BIAS CORR	0.048669	
				VAR COEFF	0.004335	0.252648
				EFFICIENCY	97.42	88.54
11	7	8	1	1.085379	1	0.273278
			2	-0.045664	2	0.230490
			3	-0.018436	3	0.206519
			4	-0.009118	4	0.184560
			5	-0.004932	5	0.171370
			6	-0.002961	6	0.157914
			7	-0.004263	7	0.695011
				BIAS CORR	0.031688	
				VAR COEFF	0.004224	0.255937
				EFFICIENCY	100.00	100.00
				EFF (M/N)	99.97	69.53

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	J	SCALE				
11	7	-	1	1.085434	2	0.334051				
			2	-0.045666	3	0.206766				
			3	-0.019447	4	0.184760				
			4	-0.009115	5	0.171482				
			5	-0.006823	6	0.158066				
			7	-0.005384	7	0.695592				
			BIAS CORR		0.031739					
			VAR COEFF		0.004225		0.256018			
			EFFICIENCY		99.99		99.93			
			11	7	-	1	1.085645	2	0.464733	
2	-0.045677	4				0.267443				
3	-0.024142	5				0.171620				
5	-0.010438	6				0.158453				
7	-0.005389	7				0.695230				
BIAS CORR		0.031814								
VAR COEFF		0.004225					0.256302			
EFFICIENCY		99.97					99.82			
11	7	-				1	1.086255	2	0.465849	
						2	-0.057330	4	0.270383	
			4	-0.022190	6	0.225793				
			7	-0.006735	7	0.697568				
			BIAS CORR		0.032022					
			VAR COEFF		0.004228		0.256787			
			EFFICIENCY		99.92		99.63			
			11	7	-	1	1.087866	3	0.506474	
						2	-0.066083	5	0.348010	
						5	-0.021784	7	0.760369	
BIAS CORR		0.034190								
VAR COEFF		0.004234					0.257670			
EFFICIENCY		99.76					99.23			
11	7	-				1	1.062357	4	0.651118	
						3	-0.062357	7	0.823282	
						BIAS CORR		0.038177		
						VAR COEFF		0.004252		0.260454
			EFFICIENCY		99.36		98.23			
			11	7	1	1	1.000000	7	1.056403	

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		0.048669
				VAR COEFF		0.004335
				EFFICIENCY		97.44
11	6		1	1.085734	1	0.319143
			2	-0.045703	2	0.272809
			3	-0.018432	3	0.239264
			4	-0.009141	4	0.219304
			5	-0.004936	5	0.207536
			6	-0.007522	6	1.052385
				BIAS CORR		0.032580
				VAR COEFF		0.004226
				EFFICIENCY		100.00
				EFF(M/N)		54.40
11	6	5	1	1.085838	2	0.393801
			2	-0.045717	3	0.239587
			3	-0.018431	4	0.219567
			4	-0.012242	5	0.200691
			6	-0.009449	6	1.053302
				BIAS CORR		0.032637
				VAR COEFF		0.004226
				EFFICIENCY		99.99
11	6	4	1	1.086355	2	0.545320
			2	-0.045755	4	0.315429
			3	-0.028618	5	0.200887
			6	-0.011981	6	1.054778
				BIAS CORR		0.032850
				VAR COEFF		0.004228
				EFFICIENCY		99.94
11	6	3	1	1.087866	2	0.546808
			2	-0.066083	4	0.442511
			5	-0.021784	6	1.135692
				BIAS CORR		0.034190
				VAR COEFF		0.004234
				EFFICIENCY		99.80
11	6	2	1	1.062357	3	0.741295
			3	-0.062357	6	1.216041



TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.038177	
				VAR COEFF	0.004252	0.302214
				EFFICIENCY	99.39	98.86
11	6	1	1	1.000000	6	1.449064
				BIAS CORR	0.048669	
				VAR COEFF	0.004335	0.313366
				EFFICIENCY	97.47	95.34
11	5	1	1	1.086371	1	0.387051
			2	-0.045728	2	0.327371
			3	-0.018472	3	0.292311
			4	-0.009152	4	0.264455
			5	-0.013018	5	1.598417
				BIAS CORR	0.033800	
				VAR COEFF	0.004228	0.358990
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.87	45.29
11	5	4	1	1.086585	2	0.474193
			2	-0.045740	3	0.292750
			3	-0.024191	4	0.264872
			5	-0.016654	5	1.600081
				BIAS CORR	0.033877	
				VAR COEFF	0.004229	0.359343
				EFFICIENCY	99.98	99.90
11	5	2	1	1.087866	2	0.659534
			2	-0.066083	4	0.382073
			5	-0.021784	5	1.602719
				BIAS CORR	0.034190	
				VAR COEFF	0.004234	0.359912
				EFFICIENCY	99.85	99.74
11	5	2	1	1.062357	3	0.710231
			3	-0.062357	5	1.714967
				BIAS CORR	0.038177	
				VAR COEFF	0.004252	0.361323
				EFFICIENCY	99.45	99.35
11	5	1	1	1.000000	5	2.027318

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.048669	
				VAR COEFF	0.004335	0.369436
				EFFICIENCY	97.53	97.17
11	4	4	1	1.087586	1	0.487735
			2	-0.045819	2	0.415884
			3	-0.018513	3	0.369076
			4	-0.023254	4	2.495526
				BIAS CORR	0.035481	
				VAR COEFF	0.004233	0.449567
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.76	36.15
11	4	3	1	1.088151	2	0.601065
			2	-0.057497	3	0.369731
			4	-0.030654	4	2.496916
				BIAS CORR	0.035601	
				VAR COEFF	0.004235	0.450143
				EFFICIENCY	99.95	99.87
11	4	2	1	1.062357	2	0.835508
			3	-0.062357	4	2.651718
				BIAS CORR	0.038177	
				VAR COEFF	0.004252	0.451051
				EFFICIENCY	99.56	99.67
11	4	1	1	1.000000	4	2.950539
				BIAS CORR	0.048669	
				VAR COEFF	0.004335	0.456862
				EFFICIENCY	97.64	98.40
11	3	3	1	1.090051	1	0.662144
			2	-0.045983	2	0.564372
			3	-0.044068	3	4.145854
				BIAS CORR	0.037919	
				VAR COEFF	0.004243	0.601141
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.53	27.04
11	3	2	1	1.062357	2	0.816168
			3	-0.062357	3	4.153711

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	3	1	1	1.000000	3	4.609766
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	2	2	1	1.095781	1	1.022582
			2	-0.095781	2	7.839180
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				EFF(M/N)		
11	2	1	1	1.000000	2	8.249759
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	1	1	1	1.000000	1	20.546761
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				EFF(M/N)		
12	12	12	1	1.085859	1	0.162229
			2	-0.045461	2	0.137856
			3	-0.018443	3	0.122211
			4	-0.009254	4	0.110908
			5	-0.004979	5	0.101812
			6	-0.003136	6	0.094299
			7	-0.001798	7	0.087741
			8	-0.001223	8	0.081768
			9	-0.000737	9	0.076092
			10	-0.000465	10	0.070380
			11	-0.000261	11	0.064742
			12	-0.000102	12	0.052781
				BIAS CORR		
				VAR COEFF		

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				EFFICIENCY		100.00
				EFF(M/N)		100.00
12	12	11	1	1.085873	2	0.199986
			2	-0.045460	3	0.122304
			3	-0.018447	4	0.110895
			4	-0.009250	5	0.101819
			5	-0.004984	6	0.094381
			6	-0.003133	7	0.087739
			7	-0.001800	8	0.081816
			8	-0.001223	9	0.076112
			9	-0.001085	10	0.070405
			11	-0.000390	11	0.064064
			12	-0.000102	12	0.052799
				BIAS CORR		
				0.026157		
				VAR COEFF		0.148983
				0.003347		
				EFFICIENCY		99.97
				100.00		
12	12	10	1	1.085888	2	0.276137
			2	-0.045461	4	0.160540
			3	-0.018447	5	0.101773
			4	-0.009250	6	0.094640
			5	-0.004984	7	0.087574
			6	-0.003133	8	0.082016
			7	-0.001800	9	0.076080
			8	-0.001223	10	0.070462
			9	-0.001086	11	0.064094
			11	-0.000503	12	0.052825
				BIAS CORR		
				0.026321		
				VAR COEFF		0.149058
				0.003347		
				EFFICIENCY		99.92
				100.00		
12	12	9	1	1.085908	2	0.276497
			2	-0.045453	4	0.223510
			3	-0.018463	6	0.135628
			4	-0.009235	7	0.087456
			5	-0.004996	8	0.082309
			6	-0.003129	9	0.076074
			7	-0.002601	10	0.070574
			9	-0.001528	11	0.064136
			11	-0.000503	12	0.052858

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.026355	
				VAR COEFF	0.003347	0.149177
				EFFICIENCY	100.00	99.84
12	12	6	1	1.085964	2	0.276944
			2	-0.045485	4	0.223954
			3	-0.018418	6	0.191264
			4	-0.009285	8	0.115799
			5	-0.004961	9	0.076065
			6	-0.004284	10	0.070723
			8	-0.002417	11	0.064225
			10	-0.001114	12	0.052948
				BIAS CORR	0.026596	
				VAR COEFF	0.003347	0.149396
				EFFICIENCY	99.99	99.89
12	12	7	1	1.086034	3	0.298377
			2	-0.045448	5	0.206531
			3	-0.019477	7	0.179292
			4	-0.009239	9	0.106345
			5	-0.006935	10	0.070564
			7	-0.004541	11	0.064424
			10	-0.001389	12	0.053066
				BIAS CORR	0.026708	
				VAR COEFF	0.003347	0.149732
				EFFICIENCY	99.98	99.47
12	12	8	1	1.086190	3	0.373784
			2	-0.045495	6	0.250769
			3	-0.018446	8	0.169124
			4	-0.012327	10	0.096484
			6	-0.007334	11	0.064658
			9	-0.002588	12	0.053235
				BIAS CORR	0.027063	
				VAR COEFF	0.003348	0.150352
				EFFICIENCY	99.97	99.05
12	12	9	1	1.086482	4	0.387173
			2	-0.045502	7	0.216035
			3	-0.024151	9	0.161158
			5	-0.012287	11	0.084966

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
			8	-0.004543	12	0.053728
			BIAS CORR	0.027565		
			VAR COEFF	0.003349		0.151523
			EFFICIENCY	99.94		98.29
12	12	4	1	1.087160	5	0.477125
			2	-0.057007	9	0.214278
			4	-0.022453	11	0.086277
			7	-0.007699	12	0.054542
			BIAS CORR	0.028262		
			VAR COEFF	0.003351		0.153737
			EFFICIENCY	99.88		96.84
12	12	3	1	1.088835	6	0.493834
			2	-0.065656	10	0.204097
			5	-0.023179	12	0.067641
			BIAS CORR	0.030275		
			VAR COEFF	0.003356		0.158449
			EFFICIENCY	99.72		93.99
12	12	2	1	1.063907	8	0.545518
			3	-0.063907	12	0.090477
			BIAS CORR	0.033919		
			VAR COEFF	0.003370		0.173876
			EFFICIENCY	99.30		85.66
12	12	1	1	1.000000	10	0.519209
			BIAS CORR	0.043338		
			VAR COEFF	0.003438		0.222318
			EFFICIENCY	97.35		66.99
12	11	11	1	1.085874	1	0.177125
			2	-0.045462	2	0.150441
			3	-0.018443	3	0.133456
			4	-0.009254	4	0.120868
			5	-0.004979	5	0.111286
			6	-0.003136	6	0.102870
			7	-0.001792	7	0.095932
			8	-0.001223	8	0.089344
			9	-0.000738	9	0.083277
			10	-0.000465	10	0.077186

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
			11	-0.000374	11	0.133798
			BIAS CORR	0.026275		
			VAR COEFF	0.003347		0.162481
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		91.66
12	11	1	1	1.085888	2	0.213257
			2	-0.045461	3	0.133560
			3	-0.018447	4	0.120967
			4	-0.009250	5	0.111298
			5	-0.004984	6	0.102962
			6	-0.003133	7	0.095934
			7	-0.001800	8	0.089399
			8	-0.001223	9	0.083301
			9	-0.001086	10	0.077217
			11	-0.000503	11	0.133847
			BIAS CORR	0.026321		
			VAR COEFF	0.003347		0.162541
			EFFICIENCY	100.00		99.75
12	11	9	1	1.085908	2	0.301431
			2	-0.045453	4	0.175189
			3	-0.018463	5	0.111253
			4	-0.009235	6	0.103250
			5	-0.004996	7	0.095758
			6	-0.003129	8	0.089622
			7	-0.002601	9	0.083270
			9	-0.001528	10	0.077292
			11	-0.000503	11	0.133918
			BIAS CORR	0.026355		
			VAR COEFF	0.003347		0.162630
			EFFICIENCY	100.00		99.91
12	11	H	1	1.085964	2	0.301848
			2	-0.045485	4	0.243824
			3	-0.018418	6	0.148067
			4	-0.009285	7	0.095636
			5	-0.004961	8	0.089949
			6	-0.004284	9	0.083173
			8	-0.002417	10	0.077410
			10	-0.001114	11	0.134627

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.026596	
				VAR COEFF	0.003347	0.162771
				EFFICIENCY	99.99	99.82
12	11	7	1	1.086034	2	0.302378
			2	-0.045448	4	0.244453
			3	-0.018477	6	0.208936
			4	-0.009239	8	0.126589
			5	-0.006939	9	0.083272
			7	-0.004541	10	0.077584
			10	-0.001389	11	0.134240
				BIAS CORR	0.026708	
				VAR COEFF	0.003347	0.163033
				EFFICIENCY	99.98	99.66
12	11	6	1	1.086190	3	0.325836
			2	-0.045495	5	0.225687
			3	-0.018446	7	0.195987
			4	-0.012327	9	0.116391
			6	-0.007334	10	0.077537
			9	-0.002588	11	0.134627
				BIAS CORR	0.027063	
				VAR COEFF	0.003348	0.163433
				EFFICIENCY	99.97	99.42
12	11	5	1	1.086482	3	0.409415
			2	-0.045502	6	0.252278
			3	-0.024151	8	0.185079
			5	-0.012287	10	0.105853
			6	-0.004543	11	0.135226
				BIAS CORR	0.027565	
				VAR COEFF	0.003349	.164178
				EFFICIENCY	99.94	98.97
12	11	4	1	1.087160	4	0.423362
			2	-0.057007	7	0.236433
			4	-0.022453	9	0.176742
			7	-0.007699	11	0.158155
				BIAS CORR	0.028262	
				VAR COEFF	0.003351	0.165585
				EFFICIENCY	99.88	98.13



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE	
12	11	7	1	1.088835	5	0.522664	
			2	-0.065656	9	0.235221	
			5	-0.023174	11	0.167804	
			BIAS CORR		0.030275		
			VAR COEFF		0.003356		0.168294
		EFFICIENCY	99.72		96.54		
12	11	7	1	1.063907	7	0.552039	
			3	-0.063907	11	0.203759	
			BIAS CORR		0.033919		
			VAR COEFF		0.003370		0.175554
					EFFICIENCY	99.30	
12	11	1	1	1.000000	10	0.517200	
			BIAS CORR		0.043330		
			VAR COEFF		0.003430		0.227310
					EFFICIENCY	97.30	
12	13	10	1	1.095911	1	0.195955	
			2	-0.045464	2	0.165914	
			3	-0.018443	3	0.146657	
			4	-0.009257	4	0.134011	
			5	-0.004977	5	0.121687	
			6	-0.003139	6	0.114160	
			7	-0.001798	7	0.105402	
			8	-0.001224	8	0.098325	
			9	-0.000739	9	0.092070	
			10	-0.000869	10	0.243636	
			BIAS CORR		0.026924		
VAR COEFF		0.003347		0.175776			
		EFFICIENCY	100.00		100.00		
		EFF(M/N)	100.00		93.31		
12	13	9	1	1.095924	2	0.240569	
			2	-0.045470	3	0.146559	
			3	-0.018433	4	0.134120	
			4	-0.009158	5	0.121753	
			5	-0.004565	6	0.114267	
			6	-0.003144	7	0.105477	
			7	-0.001797	8	0.098093	

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
			8	-0.001733	9	0.092120
			10	-0.001113	10	0.243737
			BIAS CORR	0.026565		
			VAR COEFF	0.003347		0.178849
			EFFICIENCY	100.00		99.96
12	10	6	1	1.085964	2	0.331856
			2	-0.045485	4	0.193636
			3	-0.018418	5	0.121660
			4	-0.009285	6	0.114590
			5	-0.004961	7	0.105270
			6	-0.004284	8	0.092242
			8	-0.002417	9	0.092091
			10	-0.001114	10	0.243906
			BIAS CORR	0.026596		
			VAR COEFF	0.003347		0.178955
			EFFICIENCY	100.00		99.90
12	10	7	1	1.086034	2	0.332339
			2	-0.045448	4	0.268713
			3	-0.018477	6	0.163612
			4	-0.009239	7	0.105095
			5	-0.006939	8	0.099509
			7	-0.004541	9	0.092015
			10	-0.001389	10	0.244194
			BIAS CORR	0.026708		
			VAR COEFF	0.003347		0.179125
			EFFICIENCY	99.99		99.91
12	10	8	1	1.086190	2	0.332974
			2	-0.045495	4	0.269447
			3	-0.018446	6	0.230539
			4	-0.012327	8	0.139796
			6	-0.007334	9	0.092117
			9	-0.002588	10	0.244676
			BIAS CORR	0.027063		
			VAR COEFF	0.003348		0.179441
			EFFICIENCY	99.97		99.63
12	10	9	1	1.086482	3	0.359201
			2	-0.045502	5	0.248744

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
			3	-0.024151	7	0.216362
			5	-0.012287	9	0.128804
			8	-0.004543	10	0.245165
				BIAS CORR		0.027565
				VAR COEFF		0.003349
				EFFICIENCY		99.95
17	10	4	1	1.087160	3	0.450142
			2	-0.057007	6	0.278531
			4	-0.022453	8	0.204655
			7	-0.007699	10	0.277329
				BIAS CORR		0.028262
				VAR COEFF		0.003351
				EFFICIENCY		99.88
17	10	5	1	1.088835	5	0.475647
			2	-0.065656	8	0.243863
			5	-0.023179	10	0.280270
				BIAS CORR		0.030275
				VAR COEFF		0.003356
				EFFICIENCY		99.72
17	10	2	1	1.063907	6	0.588354
			3	-0.063907	10	0.339638
				BIAS CORR		0.033919
				VAR COEFF		0.003370
				EFFICIENCY		99.30
17	10	1	1	1.000000	10	0.519208
				BIAS CORR		0.043338
				VAR COEFF		0.003438
				EFFICIENCY		97.36
17	9	0	1	1.085983	1	0.217328
			2	-0.045465	2	0.183528
			3	-0.018453	3	0.165365
			4	-0.009249	4	0.146080
			5	-0.004989	5	0.138607
			6	-0.003134	6	0.125290
			7	-0.001803	7	0.118545
			8	-0.001226	8	0.110203

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
			9	-0.001667	9	0.391524
			BIAS CORR	0.026887		
			VAR COEFF	0.003347		0.198720
			EFFICIENCY	100.00		100.00
			EFF (M/N)	99.99		74.95
12	9		1	1.086003	2	0.266760
			2	-0.045456	3	0.165508
			3	-0.018469	4	0.146214
			4	-0.009233	5	0.138634
			5	-0.005000	6	0.125414
			6	-0.003129	7	0.118558
			7	-0.002605	8	0.110281
			9	-0.002110	9	0.391696
			BIAS CORR	0.026923		
			VAR COEFF	0.003347		0.198810
			EFFICIENCY	100.00		99.95
12	9		1	1.086050	2	0.369879
			2	-0.045444	4	0.213433
			3	-0.018489	5	0.138598
			4	-0.009222	6	0.125787
			5	-0.006949	7	0.118356
			7	-0.003835	8	0.110572
			9	-0.002112	9	0.391898
			BIAS CORR	0.026958		
			VAR COEFF	0.003347		0.198946
			EFFICIENCY	99.99		99.89
12	9		1	1.086190	2	0.370480
			2	-0.045495	4	0.299004
			3	-0.018446	6	0.181659
			4	-0.012327	7	0.118231
			6	-0.007334	8	0.111025
			9	-0.002588	9	0.392215
			BIAS CORR	0.027063		
			VAR COEFF	0.003348		0.199167
			EFFICIENCY	99.98		99.78
12	9		1	1.086482	3	0.398634
			2	-0.045502	5	0.276815

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
			3	-0.024151	7	0.169011
			5	-0.012287	8	0.110088
			8	-0.004543	9	0.393463
			BIAS CORR	0.027565		
			VAR COEFF	0.003349		0.199553
			EFFICIENCY	99.95		99.58
12	9	4	1	1.087160	3	0.400011
			2	-0.057007	5	0.277871
			4	-0.022453	7	0.241649
			7	-0.007699	9	0.434567
			BIAS CORR	0.028262		
			VAR COEFF	0.003351		0.200151
			EFFICIENCY	99.89		99.29
12	9	5	1	1.088835	4	0.516391
			2	-0.065656	7	0.289493
			5	-0.023179	9	0.437454
			BIAS CORR	0.030275		
			VAR COEFF	0.003356		0.201450
			EFFICIENCY	99.73		98.65
12	9	6	1	1.063907	5	0.641091
			3	-0.053907	9	0.514654
			BIAS CORR	0.033919		
			VAR COEFF	0.003370		0.205514
			EFFICIENCY	99.31		96.69
12	9	1	1	1.000000	9	0.707836
			BIAS CORR	0.043338		
			VAR COEFF	0.003438		0.228316
			EFFICIENCY	97.37		87.04
12	8	-	1	1.086116	1	0.243959
			2	-0.045484	2	0.210194
			3	-0.018435	3	0.180951
			4	-0.009277	4	0.171545
			5	-0.004971	5	0.151330
			6	-0.003147	6	0.144469
			7	-0.001802	7	0.133277
			8	-0.003000	8	0.593037

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.027367	
				VAR COEFF	0.003347	0.223682
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.98	66.58
12	8	7	1	1.086151	2	0.303642
			2	-0.045499	3	0.181119
			3	-0.018418	4	0.171708
			4	-0.009294	5	0.151366
			5	-0.004963	6	0.144618
			6	-0.004291	7	0.133299
			8	-0.003586	8	0.593363
				BIAS CORR	0.027399	
				VAR COEFF	0.003347	0.223796
				EFFICIENCY	100.00	99.95
12	8	6	1	1.086248	2	0.416514
			2	-0.045517	4	0.245235
			3	-0.018411	5	0.151334
			4	-0.012351	6	0.145037
			6	-0.006280	7	0.133087
			8	-0.003690	8	0.593954
				BIAS CORR	0.027439	
				VAR COEFF	0.003348	0.223959
				EFFICIENCY	99.99	99.88
12	8	5	1	1.086482	2	0.417211
			2	-0.045502	4	0.338754
			3	-0.024151	6	0.206064
			5	-0.012287	7	0.132963
			8	-0.004543	8	0.594854
				BIAS CORR	0.027565	
				VAR COEFF	0.003349	0.224221
				EFFICIENCY	99.96	99.76
12	8	4	1	1.087160	2	0.417756
			2	-0.057007	4	0.339822
			4	-0.022453	6	0.290551
			7	-0.007699	8	0.646962
				BIAS CORR	0.028262	
				VAR COEFF	0.003351	0.224728

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	99.90	99.53
12	3	3	1	1.088835	3	0.563815
			2	-0.065656	6	0.250149
			5	-0.023179	8	0.649740
				BIAS CORR		0.030275
				VAR COEFF		0.003356
				EFFICIENCY	99.74	99.11
12	8	2	1	1.063907	5	0.598613
			3	-0.063907	8	0.705126
				BIAS CORR		0.033919
				VAR COEFF		0.003370
				EFFICIENCY	99.32	97.83
12	4	1	1	1.000000	8	0.946270
				BIAS CORR		0.043338
				VAR COEFF		0.003438
				EFFICIENCY	97.38	91.35
12	7	7	1	1.086336	1	0.282032
			2	-0.045471	2	0.235394
			3	-0.018481	3	0.216462
			4	-0.009244	4	0.188457
			5	-0.005001	5	0.179447
			6	-0.003143	6	0.164139
			7	-0.004975	7	0.874153
				BIAS CORR		0.028009
				VAR COEFF		0.003348
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.95	58.22
12	7	-	1	1.086384	2	0.343452
			2	-0.045459	3	0.216679
			3	-0.018502	4	0.188656
			4	-0.009233	5	0.179507
			5	-0.006958	6	0.164323
			7	-0.006232	7	0.874658
				BIAS CORR		0.028046
				VAR COEFF		0.003348
				EFFICIENCY	99.99	99.94

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE			
12	7	5	1	1.086581	2	0.478558			
			2	-0.045466	4	0.276717			
			3	-0.024181	5	0.179502			
			5	-0.010694	6	0.164848			
			7	-0.006240	7	0.875288			
			BIAS CORR	0.028102					
			VAR COEFF	0.003349		0.256207			
			EFFICIENCY	99.98		99.85			
12	7	4	1	1.087160	2	0.479497			
			2	-0.057007	4	0.387671			
			4	-0.022453	6	0.237291			
			7	-0.007699	7	0.876475			
			BIAS CORR	0.028262					
			VAR COEFF	0.003351		0.256576			
			EFFICIENCY	99.92		99.71			
			12	7	3	1	1.088835	3	0.517689
2	-0.065656	5				0.359772			
5	-0.023179	7				0.944135			
BIAS CORR	0.030275								
VAR COEFF	0.003356					0.257224			
EFFICIENCY	99.76					99.45			
12	7	2				1	1.063907	4	0.670005
						3	-0.063907	7	1.012153
			BIAS CORR	0.033919					
			VAR COEFF	0.003370		0.259396			
			EFFICIENCY	99.34		98.62			
			12	7	1	1	1.000000	7	1.262042
						BIAS CORR	0.043338		
						VAR COEFF	0.003438		0.271350
EFFICIENCY	97.40					94.28			
12	6	5				1	1.086735	1	0.327382
						2	-0.045528	2	0.283225
						3	-0.018450	3	0.245093
						4	-0.009289	4	0.228558
			5	-0.004994	5	0.207773			



TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 0.75

N	M	L	i	LOCATION	i	SCALE
			6	-0.008474	6	1.280420
			BIAS CORR	0.028840		0.298747
			VAR COEFF	0.003349		100.00
			EFFICIENCY	100.00		49.85
			EFF(M/N)	99.92		
12	6		1	1.086833	2	0.408701
			2	-0.045547	3	0.245363
			3	-0.018443	4	0.228815
			4	-0.012365	5	0.207861
			6	-0.010478	6	1.281369
			BIAS CORR	0.028883		0.298951
			VAR COEFF	0.003350		99.93
			EFFICIENCY	99.99		
12	6	4	1	1.087318	2	0.561761
			2	-0.045584	4	0.328575
			3	-0.028572	5	0.207879
			6	-0.013162	6	1.282874
			BIAS CORR	0.029044		0.299251
			VAR COEFF	0.003351		99.83
			EFFICIENCY	99.95		
12	6	5	1	1.088835	2	0.562979
			2	-0.065656	4	0.457179
			5	-0.023179	6	1.368544
			BIAS CORR	0.030275		0.299746
			VAR COEFF	0.003356		99.67
			EFFICIENCY	99.80		
12	6	2	1	1.063907	3	0.760427
			3	-0.063907	6	1.454297
			BIAS CORR	0.033919		0.301458
			VAR COEFF	0.003370		99.10
			EFFICIENCY	99.38		
12	6	1	1	1.000000	6	1.701159
			BIAS CORR	0.043338		0.310206
			VAR COEFF	0.003438		96.31
			EFFICIENCY	97.43		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE		
12	5	5	1	1.087417	1	0.399023		
			2	-0.045537	2	0.336546		
			3	-0.018509	3	0.302997		
			4	-0.009289	4	0.273519		
			5	-0.014081	5	1.897925		
			BIAS CORR	0.029970				
			VAR COEFF	0.003352		0.358970		
			EFFICIENCY	100.00		100.00		
			EFF(M/N)	99.85		41.49		
		12	5	4	1	1.087616	2	0.489553
2	-0.045545				3	0.303379		
3	-0.024223				4	0.273874		
4	-0.017849				5	1.899560		
5	-0.017849				5	1.899560		
	BIAS CORR			0.030029				
	VAR COEFF			0.003352		0.359273		
	EFFICIENCY			99.98		99.92		
12	5			3	1	1.088835	2	0.678973
					2	-0.065656	4	0.397322
		3	-0.023179		5	1.902038		
		4	-0.023179		5	1.902038		
		5	-0.023179		5	1.902038		
			BIAS CORR	0.030275				
			VAR COEFF	0.003356		0.359731		
			EFFICIENCY	99.86		99.79		
		12	5	2	1	1.063907	3	0.734663
					2	1.063907	5	2.019857
3	-0.063907				5	2.019857		
4	-0.063907				5	2.019857		
5	-0.063907				5	2.019857		
	BIAS CORR			0.033919				
	VAR COEFF			0.003370		0.360863		
	EFFICIENCY			99.44		99.48		
12	5			1	1	1.000000	5	2.349010
					2	1.000000	5	2.349010
		3	1.000000		5	2.349010		
		4	1.000000		5	2.349010		
		5	1.000000		5	2.349010		
			BIAS CORR	0.043338				
			VAR COEFF	0.003438		0.367347		
			EFFICIENCY	97.50		97.72		
		12	4	4	1	1.088698	1	0.501772
					2	-0.045638	2	0.429346
3	-0.018542				3	0.381225		
4	-0.024518				4	2.908264		
5	-0.024518				4	2.908264		
	BIAS CORR			0.031503				

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF		0.449559
				EFFICIENCY		100.00
				EFF(M/N)		33.13
12	4	3	1	1.089237	2	0.621896
			2	-0.057186	3	0.381790
			4	-0.032052	4	2.911564
				BIAS CORR		0.450038
				VAR COEFF		99.89
				EFFICIENCY		
12	4	2	1	1.063907	2	0.860572
			3	-0.063907	4	3.071373
				BIAS CORR		0.450764
				VAR COEFF		99.73
				EFFICIENCY		
12	4	1	1	1.000000	4	3.383796
				BIAS CORR		0.455499
				VAR COEFF		98.70
				EFFICIENCY		
12	3	3	1	1.091249	1	0.681868
			2	-0.045799	2	0.582113
			3	-0.045450	3	4.760500
				BIAS CORR		0.601135
				VAR COEFF		100.00
				EFFICIENCY		24.78
				EFF(M/N)		
12	3	2	1	1.063907	2	0.844115
			3	-0.063907	3	4.768024
				BIAS CORR		0.602020
				VAR COEFF		99.85
				EFFICIENCY		
12	3	1	1	1.000000	3	5.242951
				BIAS CORR		0.605058
				VAR COEFF		99.35
				EFFICIENCY		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
12	2	2	1	1.097104	1	1.053088
			2	-0.097104	2	8.893301
			BIAS CORR	0.037126		
			VAR COEFF	0.003382		0.906097
			EFFICIENCY	100.00		100.00
		EFF(M/N)	98.35		16.44	
12	2	1	1	1.000000	2	9.318593
			BIAS CORR	0.043338		
			VAR COEFF	0.003438		0.908210
			EFFICIENCY	98.39		99.77
12	1	1	1	1.000000	1	23.074277
			BIAS CORR	0.043338		
			VAR COEFF	0.003438		1.830233
			EFFICIENCY	100.00		100.00
			EFF(M/N)	97.35		8.14
12	13	13	1	1.086570	1	0.153512
			2	-0.045296	2	0.130630
			3	-0.018444	3	0.116007
			4	-0.009394	4	0.105387
			5	-0.004965	5	0.097043
			6	-0.003365	6	0.090129
			7	-0.001760	7	0.084142
			8	-0.001396	8	0.078774
			9	-0.000777	9	0.073778
			10	-0.000559	10	0.068945
			11	-0.000338	11	0.064007
			12	-0.000198	12	0.058450
			13	-0.000079	13	0.048386
			BIAS CORR	0.022988		
VAR COEFF	0.002702		0.137428			
EFFICIENCY	100.00		100.00			
EFF(M/N)	100.00		100.00			
12	13	12	1	1.086581	2	0.189946
			2	-0.045298	3	0.116073
			3	-0.018439	4	0.105478
			4	-0.009402	5	0.097007
			5	-0.004956	6	0.090252

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
			6	-0.003373	7	0.084080
			7	-0.001755	8	0.078856
			8	-0.001399	9	0.073770
			9	-0.000776	10	0.068974
			10	-0.000811	11	0.064022
			12	-0.000292	12	0.058466
			13	-0.000079	13	0.048399
			BIAS CORR	0.023027		
			VAR COEFF	0.007702		0.137454
			EFFICIENCY	100.00		99.97
13	13	11	1	1.086592	2	0.261430
			2	-0.045299	4	0.153243
			3	-0.018439	5	0.096828
			4	-0.009402	6	0.090726
			5	-0.004956	7	0.083567
			6	-0.003374	8	0.079330
			7	-0.001755	9	0.073499
			8	-0.001399	10	0.069173
			9	-0.000776	11	0.064016
			10	-0.000812	12	0.058492
			12	-0.000379	13	0.048417
			BIAS CORR	0.023150		
			VAR COEFF	0.002702		0.137516
			EFFICIENCY	100.00		99.94
13	13	10	1	1.086609	2	0.261728
			2	-0.045314	4	0.211973
			3	-0.018412	6	0.130628
			4	-0.009436	7	0.083108
			5	-0.004927	8	0.080120
			6	-0.003391	9	0.072961
			7	-0.001748	10	0.069478
			8	-0.001906	11	0.063954
			10	-0.001094	12	0.058542
			12	-0.000380	13	0.048444
			BIAS CORR	0.023169		
			VAR COEFF	0.002702		0.137574
			EFFICIENCY	100.00		99.89
13	13	9	1	1.086644	2	0.261974

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
			2	-0.045344	4	0.212559
			3	-0.018373	6	0.181930
			4	-0.009473	8	0.113230
			5	-0.004907	9	0.072774
			6	-0.004475	10	0.069765
			8	-0.002597	11	0.063924
			10	-0.001095	12	0.058620
			12	-0.000380	13	0.048489
			BIAS CORR	0.023189		
			VAR COEFF	0.002702		0.137724
			EFFICIENCY	99.99		99.78
12	13	6	1	1.086698	3	0.283401
			2	-0.045344	5	0.196228
			3	-0.018384	7	0.170726
			4	-0.009454	9	0.104967
			5	-0.004935	10	0.068507
			6	-0.004462	11	0.064504
			8	-0.003100	12	0.058622
			11	-0.001018	13	0.048567
			BIAS CORR	0.023431		
			VAR COEFF	0.002702		0.137928
			EFFICIENCY	99.99		99.64
12	13	7	1	1.086790	3	0.351983
			2	-0.045371	6	0.220681
			3	-0.018367	8	0.160904
			4	-0.012449	10	0.096570
			6	-0.006476	11	0.064263
			8	-0.003110	12	0.058868
			11	-0.001016	13	0.048689
			BIAS CORR	0.023462		
			VAR COEFF	0.002703		0.138287
			EFFICIENCY	99.98		99.38
12	13	8	1	1.086941	4	0.364755
			2	-0.045324	7	0.206477
			3	-0.018475	9	0.152666
			4	-0.012391	11	0.087898
			6	-0.007582	12	0.059090
			9	-0.003168	13	0.048911

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = C.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.024074	
				VAR COEFF	0.002703	0.138887
				EFFICIENCY	99.97	98.95
12	13	3	1	1.087255	5	0.376006
			2	-0.045363	8	0.194471
			3	-0.024151	10	0.146283
			5	-0.012470	12	0.077716
			3	-0.005271	13	0.049347
				BIAS CORR	0.024557	
				VAR COEFF	0.002704	0.140080
				EFFICIENCY	99.94	98.11
12	13	4	1	1.087947	6	0.455212
			2	-0.056731	10	0.194763
			4	-0.024794	12	0.078925
			8	-0.006423	13	0.050123
				BIAS CORR	0.024743	
				VAR COEFF	0.002706	0.142262
				EFFICIENCY	99.87	96.60
12	13	5	1	1.089660	7	0.469389
			2	-0.065291	11	0.186248
			5	-0.024369	13	0.062183
				BIAS CORR	0.027086	
				VAR COEFF	0.002710	0.146635
				EFFICIENCY	99.71	93.72
12	13	7	1	1.065222	9	0.514594
			3	-0.065222	13	0.083344
				BIAS CORR	0.030428	
				VAR COEFF	0.002722	0.161203
				EFFICIENCY	99.28	85.25
12	13	1	1	1.000000	11	0.488655
				BIAS CORR	0.038951	
				VAR COEFF	0.002777	0.206219
				EFFICIENCY	97.31	66.64
12	12	12	1	1.086581	1	0.166351
			2	-0.045296	2	0.141604

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
			3	-0.018444	3	0.125640
			4	-0.009394	4	0.114398
			5	-0.004965	5	0.104958
			6	-0.003366	6	0.097971
			7	-0.001759	7	0.091040
			8	-0.001397	8	0.085576
			9	-0.000777	9	0.080022
			10	-0.000559	10	0.074924
			11	-0.000339	11	0.069688
			12	-0.000285	12	0.121369
				BIAS CORR		
				0.023115		
				VAR COEFF		0.148884
				100.00		100.00
				EFF(M/N)		92.31
13	12	11	1	1.086592	2	0.205886
			2	-0.045299	3	0.125714
			3	-0.018439	4	0.114500
			4	-0.009402	5	0.104920
			5	-0.004956	6	0.098107
			6	-0.003374	7	0.090975
			7	-0.001755	8	0.085666
			8	-0.001399	9	0.080015
			9	-0.000776	10	0.074956
			10	-0.000812	11	0.069707
			12	-0.000379	12	0.121404
				BIAS CORR		
				0.023150		
				VAR COEFF		0.148926
				100.00		99.97
13	12	10	1	1.086609	2	0.263316
			2	-0.045314	4	0.166237
			3	-0.018412	5	0.104730
			4	-0.009436	6	0.098623
			5	-0.004927	7	0.090422
			6	-0.003391	8	0.086237
			7	-0.001748	9	0.079724
			8	-0.001906	10	0.075120
			10	-0.001094	11	0.069702
			12	-0.000380	12	0.121458
				BIAS CORR		
				0.023169		



TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF EFFICIENCY		0.148987 99.93
17	12	9	1	1.086644	2	0.283652
			2	-0.045344	4	0.229771
			3	-0.018373	6	0.141788
			4	-0.009473	7	0.089929
			5	-0.004907	8	0.087041
			6	-0.004475	9	0.079146
			8	-0.002597	10	0.075578
			10	-0.001095	11	0.069639
			12	-0.000380	12	0.121550
				BIAS CORR		
				VAR COEFF		0.149078
				EFFICIENCY		99.87
13	12	8	1	1.086698	2	0.283940
			2	-0.045344	4	0.230423
			3	-0.018384	6	0.197316
			4	-0.009454	8	0.122879
			5	-0.004935	9	0.078949
			6	-0.004462	10	0.075824
			8	-0.003100	11	0.069612
			11	-0.001018	12	0.121693
				BIAS CORR		
				VAR COEFF		0.149231
				EFFICIENCY		99.77
13	12	7	1	1.086790	3	0.307280
			2	-0.045371	5	0.212772
			3	-0.018367	7	0.185182
			4	-0.012449	9	0.113939
			6	-0.006476	10	0.074471
			8	-0.003110	11	0.070251
			11	-0.001016	12	0.121811
				BIAS CORR		
				VAR COEFF		0.149473
				EFFICIENCY		99.61
13	12	6	1	1.086941	3	0.381639
			2	-0.045324	6	0.239417

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
			3	-0.018475	8	0.174660
			4	-0.012391	10	0.104941
			6	-0.007582	11	0.070005
			9	-0.003168	12	0.122250
				BIAS CORR		
				VAR COEFF		0.145893
				EFFICIENCY		99.33
11	12	3	1	1.087255	4	0.395782
			2	-0.045363	7	0.224070
			3	-0.024151	9	0.165891
			5	-0.012470	11	0.095730
			8	-0.005271	12	0.122794
				BIAS CORR		
				VAR COEFF		0.150604
				EFFICIENCY		98.86
12	12	4	1	1.087947	5	0.408236
			2	-0.056731	8	0.211355
			4	-0.024794	10	0.159282
			8	-0.006423	12	0.143736
				BIAS CORR		
				VAR COEFF		0.152015
				EFFICIENCY		97.94
12	12	5	1	1.089660	6	0.495126
			2	-0.065291	10	0.212260
			5	-0.024369	12	0.146180
				BIAS CORR		
				VAR COEFF		0.154592
				EFFICIENCY		96.31
12	12	2	1	1.065222	8	0.519942
			3	-0.065222	12	0.185305
				BIAS CORR		
				VAR COEFF		0.162750
				EFFICIENCY		91.48
12	12	1	1	1.000000	11	0.488655
				BIAS CORR		
				VAR COEFF		0.206219

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	97.31	72.20
11	11	11	1	1.086608	1	0.181723
			2	-0.045297	2	0.154223
			3	-0.018447	3	0.138150
			4	-0.009391	4	0.123291
			5	-0.004970	5	0.116744
			6	-0.003362	6	0.105092
			7	-0.001763	7	0.100873
			8	-0.001396	8	0.092913
			9	-0.000778	9	0.087860
			10	-0.000560	10	0.082107
			11	-0.000646	11	0.218438
				BIAS CORR	0.023310	
				VAR COEFF	0.002702	0.162453
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	84.60
11	11	10	1	1.086618	2	0.224452
			2	-0.045290	3	0.139235
			3	-0.018462	4	0.123405
			4	-0.009370	5	0.116707
			5	-0.004991	6	0.105243
			6	-0.003349	7	0.100805
			7	-0.001771	8	0.093014
			8	-0.001393	9	0.087855
			9	-0.001162	10	0.082145
			11	-0.000832	11	0.218504
				BIAS CORR	0.023338	
				VAR COEFF	0.002702	0.162503
				EFFICIENCY	100.00	99.97
13	11	9	1	1.086631	2	0.309607
			2	-0.045263	4	0.180302
			3	-0.018509	5	0.116503
			4	-0.009321	6	0.105814
			5	-0.005027	7	0.100202
			6	-0.003331	8	0.093645
			7	-0.002653	9	0.087539
			9	-0.001695	10	0.082329
			11	-0.000832	11	0.218572

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		0.162576
				EFFICIENCY		99.92
13	11	8	1	1.086698	2	0.310002
			2	-0.045344	4	0.250995
			3	-0.018384	6	0.153842
			4	-0.009454	7	0.099662
			5	-0.004935	8	0.094545
			6	-0.004462	9	0.086902
			8	-0.003100	10	0.082766
			11	-0.001018	11	0.218627
				BIAS CORR		
				VAR COEFF		0.162689
				EFFICIENCY		99.85
13	11	7	1	1.086790	2	0.310357
			2	-0.045371	4	0.251747
			3	-0.018367	6	0.215404
			4	-0.012449	8	0.134277
			6	-0.006476	9	0.086695
			8	-0.003110	10	0.083127
			11	-0.001016	11	0.218798
				BIAS CORR		
				VAR COEFF		0.162877
				EFFICIENCY		99.74
13	11	6	1	1.086941	3	0.335399
			2	-0.045324	5	0.232726
			3	-0.018475	7	0.202637
			4	-0.012391	9	0.124721
			6	-0.007582	10	0.081650
			9	-0.003168	11	0.219633
				BIAS CORR		
				VAR COEFF		0.163145
				EFFICIENCY		99.58
13	11	5	1	1.087255	3	0.417507
			2	-0.045363	6	0.261432
			3	-0.024151	8	0.191217
			5	-0.012470	10	0.115149

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
			8	-0.005271	11	0.219968
			BIAS CORR	0.024557		
			VAR COEFF	0.002704		0.163669
			EFFICIENCY	99.94		99.26
13	11	4	1	1.087947	4	0.432280
			2	-0.056731	7	0.245530
			4	-0.024794	9	0.181823
			8	-0.006423	11	0.248915
			BIAS CORR	0.024743		
			VAR COEFF	0.002706		0.164508
			EFFICIENCY	99.88		98.5
13	11	5	1	1.089660	5	0.530891
			2	-0.065291	9	0.246894
			5	-0.024369	11	0.251792
			BIAS CORR	0.027086		
			VAR COEFF	0.002710		0.165430
			EFFICIENCY	99.71		97.61
13	11	6	1	1.065222	7	0.551392
			3	-0.065222	11	0.305794
			BIAS CORR	0.030428		
			VAR COEFF	0.002722		0.171785
			EFFICIENCY	99.28		94.57
13	11	1	1	1.000000	11	0.488655
			BIAS CORR	0.038951		
			VAR COEFF	0.002777		0.206219
			EFFICIENCY	97.31		78.78
13	10	10	1	1.086662	1	0.199579
			2	-0.045305	2	0.171850
			3	-0.018436	3	0.147770
			4	-0.009411	4	0.142782
			5	-0.004950	5	0.120967
			6	-0.003380	6	0.122120
			7	-0.001754	7	0.107693
			8	-0.001401	8	0.104112
			9	-0.000778	9	0.096738
			10	-0.001247	10	0.346277

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	J	SCALE
				BIAS CORR		0.023582
				VAR COEFF		0.002702
				EFFICIENCY		100.00
				EFF(M/N)		99.99
13	10	9	1	1.086679	2	0.248987
			2	-0.045320	3	0.147867
			3	-0.018409	4	0.142915
			4	-0.009444	5	0.120928
			5	-0.004921	6	0.122791
			6	-0.003397	7	0.107620
			7	-0.001747	8	0.104227
			8	-0.001909	9	0.096735
			10	-0.001530	10	0.346406
				BIAS CORR		0.023604
				VAR COEFF		0.002702
				EFFICIENCY		100.00
						99.97
13	10	3	1	1.086714	2	0.340086
			2	-0.045350	4	0.203783
			3	-0.018370	5	0.120711
			4	-0.009482	6	0.122908
			5	-0.004901	7	0.106978
			6	-0.004481	8	0.104906
			8	-0.002599	9	0.096400
			10	-0.001531	10	0.346691
				BIAS CORR		0.023624
				VAR COEFF		0.002702
				EFFICIENCY		100.00
						99.92
13	10	7	1	1.086804	2	0.340503
			2	-0.045376	4	0.277037
			3	-0.018353	6	0.172675
			4	-0.012456	7	0.106420
			6	-0.006481	8	0.105841
			8	-0.002606	9	0.095743
			10	-0.001532	10	0.347213
				BIAS CORR		0.023652
				VAR COEFF		0.002703
				EFFICIENCY		100.00
						99.85

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE			
13	10	6	1	1.086941	2	0.340908			
			2	-0.045324	4	0.277861			
			3	-0.018475	6	0.238431			
			4	-0.012391	8	0.148279			
			6	-0.007582	9	0.095529			
			9	-0.003160	10	0.347818			
			BIAS CORR	0.024074					
			VAR COEFF	0.002703		0.179236			
			EFFICIENCY	99.97		99.73			
			13	10	8	1	1.087255	3	0.370490
2	-0.045367	5				0.255630			
3	-0.024157	7				0.223520			
5	-0.012470	9				0.133153			
8	-0.005271	10				0.347381			
BIAS CORR	0.024557								
VAR COEFF	0.002704					0.179639			
EFFICIENCY	99.94					99.51			
13	10	4				1	1.087947	3	0.454638
						2	-0.055731	6	0.289834
			4	-0.024794	8	0.211146			
			8	-0.006423	10	0.384700			
			BIAS CORR	0.024742					
			VAR COEFF	0.002706		0.180213			
			EFFICIENCY	99.88		99.19			
			13	10	3	1	1.089660	4	0.574492
						2	-0.065291	8	0.290644
						5	-0.024369	10	0.387904
BIAS CORR	0.027086								
VAR COEFF	0.002710					0.181724			
EFFICIENCY	99.72					98.37			
13	10	2				1	1.065222	6	0.596389
						3	-0.065222	10	0.456422
						BIAS CORR	0.030428		
						VAR COEFF	0.002722		0.185432
			EFFICIENCY	99.28		96.40			
			13	10	1	1	1.000000	10	0.655914

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.038951	
				VAR COEFF	0.002777	0.208844
				EFFICIENCY	97.32	85.59
12	9	9	1	1.086748	1	0.224028
			2	-0.045290	2	0.185326
			3	-0.018478	3	0.176733
			4	-0.009358	4	0.142315
			5	-0.005004	5	0.150910
			6	-0.003346	6	0.125330
			7	-0.001772	7	0.125298
			8	-0.001398	8	0.114690
			9	-0.002102	9	0.515919
				BIAS CORR	0.023945	
				VAR COEFF	0.002703	0.198703
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.98	69.16
12	9	4	1	1.086761	2	0.271922
			2	-0.045263	3	0.176854
			3	-0.018525	4	0.142464
			4	-0.009309	5	0.150879
			5	-0.005040	6	0.125523
			6	-0.003330	7	0.125224
			7	-0.002657	8	0.114824
			9	-0.002637	9	0.516092
				BIAS CORR	0.023970	
				VAR COEFF	0.002703	0.198780
				EFFICIENCY	100.00	99.96
13	9	7	1	1.086799	2	0.272034
			2	-0.045233	3	0.263498
			3	-0.018566	5	0.209816
			4	-0.009282	6	0.125056
			5	-0.007076	7	0.126203
			7	-0.004000	8	0.113947
			9	-0.002641	9	0.516831
				BIAS CORR	0.023997	
				VAR COEFF	0.002703	0.198895
				EFFICIENCY	99.99	99.90



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE				
11	9	0	1	1.086941	2	0.271340				
			2	-0.045324	3	0.264645				
			3	-0.018475	5	0.286145				
			4	-0.012391	7	0.177176				
			6	-0.007582	8	0.113442				
			9	-0.003168	9	0.517713				
			BIAS CORR		0.024074					
			VAR COEFF		0.002703		0.199089			
			EFFICIENCY		99.98		99.81			
			11	9	1	1	1.087255	3	0.410674	
2	-0.045367	5				0.286570				
3	-0.024151	7				0.177847				
5	-0.012470	8				0.113072				
9	-0.005271	9				0.518563				
BIAS CORR		0.024557								
VAR COEFF		0.002704					0.199335			
EFFICIENCY		99.95					99.68			
11	9	2				1	1.087947	3	0.411785	
						2	-0.045673	5	0.287589	
			4	-0.024794	7	0.244342				
			9	-0.006423	9	0.562937				
			BIAS CORR		0.024743					
			VAR COEFF		0.002706		0.199770			
			EFFICIENCY		99.89		99.49			
			13	9	1	1	1.089660	4	0.526799	
						2	-0.065291	7	0.301862	
						5	-0.024364	9	0.565897	
BIAS CORR		0.027086								
VAR COEFF		0.002710					0.200829			
EFFICIENCY		99.72					98.94			
13	9	2				1	1.065722	9	0.651324	
						3	-0.065722	9	0.551310	
						BIAS CORR		0.030428		
						VAR COEFF		0.002722		0.201609
			EFFICIENCY		99.29		97.95			
			13	9	3	1	1.000000	9	0.861279	

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.038951	
				VAR COEFF	0.002777	0.220526
				EFFICIENCY	97.33	90.10
11	8	8	1	1.086910	1	0.248427
			2	-0.045342	2	0.221336
			3	-0.018403	3	0.177580
			4	-0.009455	4	0.186622
			5	-0.004931	5	0.149683
			6	-0.003390	6	0.153024
			7	-0.001761	7	0.137779
			8	-0.003627	8	0.744926
				BIAS CORR	0.024404	
				VAR COEFF	0.002703	0.223669
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.97	61.44
11	8	7	1	1.086945	2	0.317300
			2	-0.045373	3	0.177715
			3	-0.018363	4	0.186803
			4	-0.009493	5	0.149648
			5	-0.004910	6	0.153749
			6	-0.004482	7	0.137702
			8	-0.004324	8	0.745307
				BIAS CORR	0.024425	
				VAR COEFF	0.002703	0.223767
				EFFICIENCY	100.00	99.76
11	6		1	1.087036	2	0.426909
			2	-0.045399	4	0.259971
			3	-0.018346	5	0.149418
			4	-0.012473	6	0.153994
			6	-0.006486	7	0.136947
			8	-0.004332	8	0.746148
				BIAS CORR	0.024453	
				VAR COEFF	0.002703	0.223593
				EFFICIENCY	99.99	99.90
11	8		1	1.087255	2	0.427499
			2	-0.045363	4	0.259697
			3	-0.024191	6	0.215624

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

L	M	L	LOCATION		SCALE		
			I	I	I	I	
11	5	4	5	-0.012470	7	0.136288	
			8	-0.005271	8	0.747289	
			BIAS CORR		0.024557		
			VAR COEFF		0.002704	0.224069	
			EFFICIENCY		99.97	99.82	
12	5	4	1	1.087947	2	0.428168	
			2	-0.056731	4	0.351876	
			4	-0.024794	6	0.299929	
			3	-0.006423	8	0.802495	
			BIAS CORR		0.024743		
			VAR COEFF		0.002706	0.2244 1	
EFFICIENCY		99.90	99.66				
12	5	3	1	1.089660	3	0.575688	
			2	-0.065291	6	0.364431	
			5	-0.024364	8	0.802412	
			BIAS CORR		0.027086		
			VAR COEFF		0.002710	0.225246	
			EFFICIENCY		99.74	99.30	
13	5	2	1	1.065222	4	0.724203	
			3	-0.065222	8	0.911341	
			BIAS CORR		0.030428		
			VAR COEFF		0.002722	0.227005	
			EFFICIENCY		99.31	98.27	
13	5	1	1	1.000000	11	1.123822	
			BIAS CORR		0.038951		
			VAR COEFF		0.002777	0.234738	
			EFFICIENCY		97.34	93.22	
13	7	2	1	1.007145	1	0.291846	
			2	-0.045282	2	0.237444	
			3	-0.014526	3	0.230871	
			4	-0.004348	4	0.187717	
			5	-0.005004	5	0.189294	
			6	-0.003366	6	1.165006	
			7	-0.005614	7	1.062222	
			BIAS CORR		0.025021		
			VAR COEFF		0.002704	0.255811	
			EFFICIENCY				

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.94	53.72
12	7	6	1	1.087184	2	0.349293
			2	-0.045252	3	0.231011
			3	-0.018567	4	0.187925
			4	-0.009321	5	0.189277
			5	-0.007068	6	0.169359
			7	-0.006975	7	1.062737
				BIAS CORR	0.025051	
				VAR COEFF	0.002704	0.255941
				EFFICIENCY	99.99	99.95
13	7	6	1	1.087368	2	0.349528
			2	-0.045254	3	0.345358
			3	-0.024230	5	0.267055
			5	-0.010896	6	0.168795
			7	-0.006988	7	1.064086
				BIAS CORR	0.025093	
				VAR COEFF	0.002704	0.256141
				EFFICIENCY	99.98	99.87
13	7	"	1	1.087927	2	0.492636
			2	-0.056721	4	0.397943
			4	-0.022676	6	0.248386
			7	-0.008530	7	1.064071
				BIAS CORR	0.025223	
				VAR COEFF	0.002706	0.256443
				EFFICIENCY	99.93	99.75
14	7	2	1	1.089660	3	0.534899
			2	-0.065291	5	0.370987
			5	-0.024369	7	1.135908
				BIAS CORR	0.027086	
				VAR COEFF	0.002710	0.256901
				EFFICIENCY	99.76	99.58
15	7	2	1	1.065222	4	0.688050
			3	-0.065222	7	1.208789
				BIAS CORR	0.030428	
				VAR COEFF	0.002722	0.258694

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	99.33	98.99
13	7	1	1	1.000000	7	1.473470
				BIAS CORR	0.038951	
				VAR COEFF	0.002777	0.268081
				EFFICIENCY	97.36	95.42
13	6	.	1	1.087589	1	0.334027
			2	-0.045387	2	0.295344
			3	-0.018435	3	0.247992
			4	-0.009441	4	0.238874
			5	-0.004975	5	0.213964
			6	-0.009347	6	1.518564
				BIAS CORR	0.025791	
				VAR COEFF	0.002705	0.298738
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.91	46.00
13	6	:	1	1.087682	2	0.424541
			2	-0.045413	3	0.248218
			3	-0.018418	4	0.239144
			4	-0.012462	5	0.213857
			5	-0.011388	6	1.519553
				BIAS CORR	0.025823	
				VAR COEFF	0.002705	0.298908
				EFFICIENCY	99.99	99.94
13	6	4	1	1.088144	2	0.577657
			2	-0.045453	4	0.341397
			3	-0.028498	5	0.213606
			6	-0.014193	6	1.521134
				BIAS CORR	0.025950	
				VAR COEFF	0.002706	0.299145
				EFFICIENCY	99.95	99.86
13	6	?	1	1.089660	2	0.578730
			2	-0.065291	4	0.471277
			3	-0.024369	6	1.610696
				BIAS CORR	0.027086	
				VAR COEFF	0.002710	0.299575
				EFFICIENCY	99.80	99.74

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
13	6	2	1	1.065222	3	0.779503
			3	-0.065222	6	1.701598
			BIAS CORR	0.030428		
			VAR COEFF	0.002722		0.300937
			EFFICIENCY	99.37		99.27
13	6	1	1	1.000000	6	1.960879
			BIAS CORR	0.038951		
			VAR COEFF	0.002777		0.307984
			EFFICIENCY	97.40		97.00
13	5	0	1	1.088303	1	0.410959
			2	-0.045364	2	0.344241
			3	-0.018529	3	0.313822
			4	-0.009419	4	0.281625
			5	-0.014991	5	2.209359
			BIAS CORR	0.026842		
			VAR COEFF	0.002707		0.358963
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.84		38.28
13	5	4	1	1.088492	2	0.503258
			2	-0.045365	3	0.314153
			3	-0.024252	4	0.281992
			5	-0.018875	5	2.210948
			BIAS CORR	0.026889		
			VAR COEFF	0.002707		0.359220
			EFFICIENCY	99.98		99.93
13	5	3	1	1.089660	2	0.697205
			2	-0.065291	4	0.411500
			5	-0.024369	5	2.213253
			BIAS CORR	0.027086		
			VAR COEFF	0.002710		0.359599
EFFICIENCY	99.87		99.82			
13	5	2	1	1.065222	3	0.757936
			3	-0.065222	5	2.335986
			BIAS CORR	0.030428		
VAR COEFF	0.002722		0.360522			

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	99.44	99.57
12	5	1	1	1.000000	5	2.680632
				BIAS CORR	0.038951	
				VAR COEFF	0.002777	0.365831
				EFFICIENCY	97.47	98.12
12	4	4	1	1.089643	1	0.514849
			2	-0.045480	2	0.442273
			3	-0.018549	3	0.392484
			4	-0.023614	4	3.335925
				BIAS CORR	0.028244	
				VAR COEFF	0.002710	0.449552
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.71	30.57
12	4	3	1	1.090162	2	0.641614
			2	-0.056912	3	0.392969
			4	-0.033250	4	3.339137
				BIAS CORR	0.028320	
				VAR COEFF	0.002711	0.449957
				EFFICIENCY	99.95	99.91
12	4	2	1	1.065222	2	0.884453
			3	-0.065222	4	3.505184
				BIAS CORR	0.030428	
				VAR COEFF	0.002722	0.450550
				EFFICIENCY	99.56	99.78
12	4	1	1	1.000000	4	3.830352
				BIAS CORR	0.038951	
				VAR COEFF	0.002777	0.454485
				EFFICIENCY	97.59	98.91
12	3	3	1	1.092267	1	0.700556
			2	-0.045635	2	0.598793
			3	-0.046632	3	5.395497
				BIAS CORR	0.030255	
				VAR COEFF	0.002717	0.601130
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.47	22.86

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 0.75

N	M	L	I	LOCATION	I	SCALE	
11	3	2	1	1.065222	2	0.870336	
			3	-0.065122	3	5.402715	
				BIAS CORR	0.030428		
				VAR COEFF	0.002722		0.601879
				EFFICIENCY	99.81		99.88
11	3	1	1	1.000000	3	5.895177	
				BIAS CORR	0.038951		
				VAR COEFF	0.002777		0.604422
				EFFICIENCY	97.83		99.46
13	2	2	1	1.098228	1	1.081911	
			2	-0.098228	2	9.979577	
				BIAS CORR	0.033349		
				VAR COEFF	0.002732		0.906093
				EFFICIENCY	100.00		100.00
		EFF(M/N)	98.91		15.17		
11	2	1	1	1.000000	2	10.418638	
				BIAS CORR	0.038951		
				VAR COEFF	0.002777		0.907882
				EFFICIENCY	98.38		99.80
13	1	1	1	1.000000	1	25.673057	
				BIAS CORR	0.038951		
				VAR COEFF	0.002777		1.830233
				EFFICIENCY	100.00		100.00
				EFF(M/N)	97.31		7.51



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE	
11	11	11	1	1.000000	1	0.090909	
			2	0.	2	0.090909	
			3	-0.	3	0.090909	
			4	0.	4	0.090909	
			5	-0.	5	0.090909	
			6	0.	6	0.090909	
			7	0.	7	0.090909	
			8	-0.	8	0.090909	
			9	0.	9	0.090909	
			10	0.	10	0.090909	
			11	-0.	11	0.090909	
	BIAS CORR	0.090909					
	VAR COEFF	0.008264		0.090909			
	EFFICIENCY	100.00		100.00			
	EFF(M/N)	100.00		100.00			
11	11	10	1	1.000000	2	0.132099	
			2	-0.	3	0.090947	
			3	0.	4	0.090947	
			5	-0.	5	0.090946	
			6	0.	6	0.090947	
			7	0.	7	0.090947	
			8	-0.	8	0.090946	
			9	0.	9	0.090947	
			10	0.	10	0.090946	
			11	-0.	11	0.090946	
				BIAS CORR	0.090909		
	VAR COEFF	0.008264		0.090947			
	EFFICIENCY	100.00		99.96			
11	11	9	1	1.000000	2	0.183018	
			2	-0.	4	0.131171	
			3	0.	5	0.091004	
			5	-0.	6	0.091004	
			6	-0.	7	0.091004	
			7	0.	8	0.091003	
			8	-0.	9	0.091004	
			10	0.	10	0.091004	
			11	-0.	11	0.091003	
				BIAS CORR	0.090909		
				VAR COEFF	0.008264		0.091004

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	Y	SCALE
				100.00		99.90
			EFFICIENCY			
11	11	8	1	1.000000	2	0.183214
			2	0.	4	0.183828
			4	0.	6	0.129685
			5	0.	7	0.091101
			7	0.	8	0.091101
			8	-0.	9	0.091101
			9	0.	10	0.091101
			11	-0.	11	0.091101
			BIAS CORR	0.090909		
			VAR COEFF	0.008264		0.091101
			EFFICIENCY	100.00		99.79
11	11	7	1	1.000000	4	0.222101
			2	-0.	5	0.184742
			3	0.	7	0.128697
			4	0.	8	0.091285
			5	-0.	9	0.091285
			7	0.	10	0.091285
			8	-0.	11	0.091285
			BIAS CORR	0.090909		
			VAR COEFF	0.008264		0.091285
			EFFICIENCY	100.00		99.59
11	11	6	1	1.000000	3	0.222915
			2	0.	5	0.185419
			4	0.	7	0.187805
			5	0.	9	0.124603
			7	0.	10	0.091620
			11	-0.	11	0.091620
			BIAS CORR	0.090909		
			VAR COEFF	0.008264		0.091620
			EFFICIENCY	100.00		99.22
11	11	5	1	1.000000	4	0.318773
			2	-0.	7	0.222987
			3	0.	9	0.125371
			6	0.	10	0.092184
			8	-0.	11	0.092184
			BIAS CORR	0.090909		

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF EFFICIENCY	0.008264 100.00	0.092184 98.62
11	11	4	1	1.000000	5	0.356288
			2	-0.	8	0.226388
			4	0.	10	0.122041
			6	-0.	11	0.093326
				BIAS CORR		
				VAR COEFF		0.093376
				EFFICIENCY		97.41
11	11	5	1	1.000000	6	0.396766
			2	0.	9	0.236810
			3	-0.	11	0.115184
				BIAS CORR		
				VAR COEFF		0.095987
				EFFICIENCY		94.71
11	11	2	1	1.000000	8	0.486391
			3	0.	11	0.140031
				BIAS CORR		
				VAR COEFF		0.103962
				EFFICIENCY		87.44
11	11	1	1	1.000000	9	0.657948
				BIAS CORR		
				VAR COEFF		0.133346
				EFFICIENCY		69.18
11	13	13	1	1.000000	1	0.100000
			2	0.	2	0.100000
			3	-0.	3	0.100000
			4	0.	4	0.100000
			5	-0.	5	0.100000
			6	0.	6	0.100000
			7	0.	7	0.100000
			8	-0.	8	0.100000
			9	0.	9	0.100000
			10	-0.	10	0.200000
				BIAS CORR		
				VAR COEFF		0.100000

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				EFF(M/N)		90.91
11	10	9	1	1.000000	2	0.145314
			2	0.	3	0.100045
			4	0.	4	0.100045
			5	0.	5	0.100045
			6	-0.	6	0.100045
			7	0.	7	0.100045
			8	-0.	8	0.100045
			9	0.	9	0.100045
			10	-0.	10	0.200090
				BIAS CORR		
				0.090909		
				VAR COEFF		0.100045
				0.008264		99.95
				EFFICIENCY		
				100.00		
11	10	8	1	1.000000	2	0.201341
			2	0.	4	0.144303
			3	-0.	5	0.100114
			4	0.	6	0.100114
			5	-0.	7	0.100114
			6	0.	8	0.100114
			9	0.	9	0.100114
			10	-0.	10	0.200229
				BIAS CORR		
				0.090909		
				VAR COEFF		0.100114
				0.008264		99.87
				EFFICIENCY		
				100.00		
11	10	7	1	1.000000	2	0.201578
			2	-0.	4	0.202254
			3	0.	6	0.142694
			4	0.	7	0.100232
			5	-0.	8	0.100232
			7	0.	9	0.100232
			8	-0.	10	0.200465
				BIAS CORR		
				0.090909		
				VAR COEFF		0.100232
				0.008264		99.77
				EFFICIENCY		
				100.00		
11	10	6	1	1.000000	3	0.244412
			2	0.	5	0.203300

TABLE II

COEFFICIENTS FOR ESTIMATION OF LOCATION AND SCALE PARAMETERS OF A WEIBULL POPULATION FROM L-ORDER STATISTICS (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	LOCATION		SCALE	
			i	Efficiency	i	Efficiency
11	11	1	1	1.000000	1	0.191678
			2	=0.	2	0.101452
			3	0.	3	0.100455
			4	=0.	4	0.205915
			5	=0.	5	
			BIAS CORR	0.070707		0.150455
			VAR CORR	0.008764		97.55
			EFFICIENCY	100.00		
11	10	1	1	1.000000	1	0.205915
			2	=0.	2	0.204170
			3	0.	3	0.204170
			4	0.	4	0.131171
			5	=0.	5	0.201171
			BIAS CORR	0.040909		0.190441
			VAR CORR	0.008764		97.11
			EFFICIENCY	100.00		
11	9	1	1	1.000000	1	0.201171
			2	=0.	2	0.205915
			3	0.	3	0.188151
			4	=0.	4	0.201171
			5	=0.	5	
			BIAS CORR	0.150455		0.191678
			VAR CORR	0.008764		99.50
			EFFICIENCY	100.00		
11	8	1	1	1.000000	1	0.201171
			2	0.	2	0.205915
			3	=0.	3	0.178750
			4	=0.	4	0.201171
			5	=0.	5	
			BIAS CORR	0.070707		0.191678
			VAR CORR	0.008764		97.16
			EFFICIENCY	100.00		
11	7	1	1	1.000000	1	0.201171
			2	0.	2	0.201171
			3	0.	3	0.181250
			4	0.	4	0.201171
			5	0.	5	
			BIAS CORR	0.070707		0.181250
			VAR CORR	0.008764		97.16
			EFFICIENCY	100.00		
11	6	1	1	1.000000	1	0.181250
			2	0.	2	0.201171
			3	0.	3	0.181250
			4	0.	4	0.181250
			5	0.	5	
			BIAS CORR	0.070707		0.181250
			VAR CORR	0.008764		97.16
			EFFICIENCY	100.00		
11	5	1	1	1.000000	1	0.181250
			2	0.	2	0.181250
			3	0.	3	0.181250
			4	0.	4	0.181250
			5	0.	5	
			BIAS CORR	0.070707		0.181250
			VAR CORR	0.008764		97.16
			EFFICIENCY	100.00		

**TABLE II**  
**COEFFICIENTS FOR ESTIMATION OF**  
**LOCATION AND SCALE PARAMETERS OF A**  
**WEIBULL POPULATION FROM L-ORDER STATISTICS**  
**(SAMPLE SIZES 11 TO 10)**  
**SHAPE PARAMETER = 1.00**

N	r	L	I	LOCATION		SCALE	
				EFFICIENCY	100.00		74.97
11	9	9	1	1.000000	1	0.111111	
			2	0.	2	0.111111	
			3	=0.	3	0.111111	
			4	0.	4	0.111111	
			5	=0.	5	0.111111	
			6	0.	6	0.111111	
			7	0.	7	0.111111	
			8	=0.	8	0.111111	
			9	0.	9	0.222222	
MEAN CORR				0.070707			
VAR CORR				0.008764		0.111111	
EFFICIENCY				100.00		100.00	
EFFI(N/4)				100.00		81.97	
11	8	8	1	1.000000	8	0.161667	
			2	0.	9	0.111167	
			3	0.	10	0.111167	
			4	0.	11	0.111167	
			5	=0.	12	0.111167	
			6	0.	13	0.111167	
			7	0.	14	0.111167	
			8	=0.	15	0.111167	
			9	0.	16	0.111167	
MEAN CORR				0.070707		0.111167	
VAR CORR				0.008764		79.73	
EFFICIENCY				100.00			
11	7	7	1	1.000000	7	0.222222	
			2	=0.	8	0.160111	
			3	0.	9	0.111267	
			4	0.	10	0.111267	
			5	=0.	11	0.111267	
			6	0.	12	0.111267	
			7	0.	13	0.111267	
			8	=0.	14	0.111267	
			9	0.	15	0.111267	
MEAN CORR				0.070707		0.111267	
VAR CORR				0.008764		79.73	
EFFICIENCY				100.00			
11	6	6	1	1.000000	6	0.277778	
			2	0.	7	0.222222	

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

n	m	L	LOCATION		SCALE	
			l	u	l	u
			3	=0.	6	0.199579
			4	=0.	7	0.111394
			5	=0.	8	0.111394
			6	=0.	9	0.334194
						99.74
			BIAS CORR	0.090909		
			VAN CORR	0.008764		
			EFFICIENCY	100.00		
11	7		1	1.000000	3	0.271704
			2	=0.	6	0.274394
			3	=0.	7	0.197661
			4	=0.	8	0.111471
			5	=0.	9	0.335076
			BIAS CORR	0.090909		
			VAN CORR	0.008764		
			EFFICIENCY	100.00		
						0.111471
						91.5
11	7		1	1.000000	3	0.271704
			2	=0.	6	0.274394
			3	=0.	7	0.274394
			4	=0.	8	0.316776
			5	=0.	9	
			BIAS CORR	0.090909		
			VAN CORR	0.008764		
			EFFICIENCY	100.00		
						0.111716
						91.5
11	7		1	1.000000	6	0.199579
			2	=0.	7	0.274394
			3	=0.	8	0.271704
			4	=0.	9	0.334194
			5	=0.		
			BIAS CORR	0.090909		
			VAN CORR	0.008764		
			EFFICIENCY	100.00		
						0.1113977
						99.74
11	7		1	1.000000	6	0.199579
			2	=0.	7	0.197661
			3	=0.	8	0.111394
			4	=0.	9	0.334194
			5	=0.		
			BIAS CORR	0.090909		
			VAN CORR	0.008764		
			EFFICIENCY	100.00		
						0.111394
						99.74
11	7		1	1.000000	4	0.271704
			2	=0.	5	0.271704
			3	=0.		
			4	=0.		
			5	=0.		
			BIAS CORR	0.090909		
			VAN CORR	0.008764		
			EFFICIENCY	100.00		
						0.111394
						99.74

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

L	M	I	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
11	8	1	1	1.000000	1	0.129000
			2	0.	2	0.129000
			3	-0.	3	0.129000
			4	0.	4	0.129000
			5	-0.	5	0.129000
			6	0.	6	0.129000
			7	0.	7	0.129000
			8	-0.	8	0.900000
						BIAS CORR
			VAN CORR	0.000000		0.129000
			EFFICIENCY	100.00		100.00
			EFFICIENCY	100.00		77.71
11	8	2	1	1.000000	2	0.129000
			2	-0.	3	0.129000
			3	0.	4	0.129000
			4	0.	5	0.129000
			5	-0.	6	0.129000
			6	0.	7	0.129000
			7	0.	8	0.129000
			8	-0.		0.500000
						BIAS CORR
			VAN CORR	0.000000		0.129000
			EFFICIENCY	100.00		77.71
11	8	3	1	1.000000	3	0.129000
			2	0.	4	0.129000
			3	-0.	5	0.129000
			4	0.	6	0.129000
			5	-0.	7	0.129000
			6	0.	8	0.129000
			7	-0.		0.500000
			8	0.		0.500000
						BIAS CORR
			VAN CORR	0.000000		0.129000
			EFFICIENCY	100.00		77.71
11	8	4	1	1.000000	4	0.129000
			2	0.	5	0.129000
			3	0.	6	0.129000
			4	0.	7	0.129000
			5	-0.	8	0.129000
			6	0.		0.500000
			7	0.		0.500000
			8	-0.		0.500000
						BIAS CORR
			VAN CORR	0.000000		0.129000
			EFFICIENCY	100.00		77.71



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

n	r	l	i	LOCATION	i	SCALE
				BIAS CORR		
				VAR CORR		
				EFFICIENCY		
				0.090909		0.129341
				0.008764		49.71
				100.00		
11	0	4	1	1.000000	3	0.309863
			2	=0.	9	0.294419
			4	0.	7	0.177234
			6	=0.	8	0.902848
				BIAS CORR		
				VAR CORR		
				EFFICIENCY		
				0.090909		0.123712
				0.008764		49.43
				100.00		
11	0	5	1	1.000000	3	0.386271
			2	0.	6	0.305482
			3	=0.	8	0.994712
				BIAS CORR		
				VAR CORR		
				EFFICIENCY		
				0.090909		0.124351
				0.008764		48.73
				100.00		
11	0	7	1	1.000000	3	0.481743
			3	0.	8	0.607472
				BIAS CORR		
				VAR CORR		
				EFFICIENCY		
				0.090909		0.124135
				0.008764		47.40
				100.00		
11	0	9	1	1.000000	3	0.847784
				BIAS CORR		
				VAR CORR		
				EFFICIENCY		
				0.090909		0.125875
				0.008764		47.37
				100.00		
11	7	1	1	1.000000	1	0.142857
			2	0.	2	0.142857
			3	=0.	3	0.142857
			4	0.	4	0.142857
			5	=0.	5	0.142857
			6	0.	6	0.142857
			7	0.	7	0.142857
				BIAS CORR		
				VAR CORR		
				EFFICIENCY		
				0.090909		0.142857
				0.008764		100.00
				100.00		63.64
				100.00		

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	i	LOCATION	j	SCALE					
11	7	0	1	1.000000	2	0.207632					
			2	0.	3	0.142950					
			3	-0.	4	0.142950					
			4	0.	5	0.142949					
			5	-0.	6	0.142949					
			6	0.	7	0.714748					
			BIAS CORR				0.040404				
			VAR COEFF				0.008264	0.142950			
			EFFICIENCY				100.00	99.74			
			11	7	1	1	1.000000	2	0.207771		
2	0.	4				0.206740					
3	0.	5				0.143091					
4	-0.	6				0.143091					
5	0.	7				0.719493					
BIAS CORR						0.040404					
VAR COEFF						0.708764	0.143091				
EFFICIENCY						100.00	99.84				
11	7	2				1	1.000000	2	0.206796		
						2	-0.	4	0.207777		
			4	0.	6	0.204037					
			6	-0.	7	0.716660					
			BIAS CORR				0.040404				
			VAR COEFF				0.008764	0.143332			
			EFFICIENCY				100.00	99.67			
			11	7	3	1	1.000000	3	0.247047		
						2	0.	5	0.240497		
						3	-0.	7	0.777864		
BIAS CORR						0.040404					
VAR COEFF						0.008764	0.143700				
EFFICIENCY						100.00	99.19				
11	7	4				1	1.000000	4	0.307049		
						2	0.	7	0.839047		
						BIAS CORR				0.040404	
						VAR COEFF				0.008764	0.145144
			EFFICIENCY				100.00	98.49			
			11	7	5	1	1.000000	7	1.067759		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAN COEFF		0.153254
				EFFICIENCY		93.22
11	6	5	1	1.000000	1	0.166667
			2	0.	2	0.166667
			3	-0.	3	0.166667
			4	0.	4	0.166667
			5	-0.	5	0.166666
			6	0.	6	1.000000
				BIAS CORR		
				VAN COEFF		0.166667
				EFFICIENCY		100.00
				EFFICIENCY		94.99
11	6	4	1	1.000000	2	0.247778
			2	0.	3	0.166667
			3	-0.	4	0.166667
			4	0.	5	0.166667
			5	-0.	6	1.000000
				BIAS CORR		
				VAN COEFF		0.166667
				EFFICIENCY		99.97
11	6	3	1	1.000000	2	0.333333
			2	-0.	3	0.222222
			3	0.	4	0.166667
			4	-0.	6	1.000000
				BIAS CORR		
				VAN COEFF		0.166667
				EFFICIENCY		99.91
11	6	2	1	1.000000	2	0.333333
			2	0.	3	0.222222
			3	-0.	6	1.000000
				BIAS CORR		
				VAN COEFF		0.166667
				EFFICIENCY		99.91
11	6	1	1	1.000000	3	0.333333
			2	0.	6	1.000000

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.090909	
				VAR COEFF	0.008264	0.168383
				EFFICIENCY	100.00	98.98
11	6	1	1	1.000000	6	1.357692
				BIAS CORR	0.090909	
				VAR COEFF	0.008264	0.174049
				EFFICIENCY	100.00	95.76
11	9		1	1.000000	1	0.200000
			2	0.	2	0.200000
			3	-0.	3	0.200000
			4	0.	4	0.200000
			5	-0.	5	1.400000
				BIAS CORR	0.090909	
				VAR COEFF	0.008264	0.200000
				EFFICIENCY	100.00	100.00
				EFFICIENCY	100.00	49.49
11	6	6	1	1.000000	7	0.290761
			2	0.	3	0.200191
			4	0.	4	0.200191
			5	0.	5	1.401260
				BIAS CORR	0.090909	
				VAR COEFF	0.008264	0.200191
				EFFICIENCY	100.00	49.71
11	6		1	1.000000	7	0.403143
			2	0.	4	0.288936
			3	-0.	5	1.403279
				BIAS CORR	0.090909	
				VAR COEFF	0.008264	0.200498
				EFFICIENCY	100.00	49.77
11	6		1	1.000000	3	0.487437
			3	0.	6	1.495374
				BIAS CORR	0.090909	
				VAR COEFF	0.008264	0.201163
				EFFICIENCY	100.00	49.42
11	6	1	1	1.000000	9	1.754764

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	l	LOCATION	l	SCALE
				BIAS CORR	0.040909	
				VAR COEFF	0.008264	0.205200
				EFFICIENCY	100.00	97.46
11	4	4	1	1.000000	1	0.250000
			2	-0.	2	0.250000
			3	0.	3	0.250000
			4	0.	4	2.000000
				BIAS CORR	0.040909	
				VAR COEFF	0.008264	0.250000
				EFFICIENCY	100.00	100.00
				EFF (M/N)	100.00	36.36
11	4	3	1	1.000000	2	0.363636
			2	0.	3	0.250000
			3	-0.	4	2.002200
				BIAS CORR	0.040909	
				VAR COEFF	0.008264	0.250000
				EFFICIENCY	100.00	99.09
11	4	2	1	1.000000	2	0.504717
			2	0.	4	2.116340
				BIAS CORR	0.040909	
				VAR COEFF	0.008264	0.250000
				EFFICIENCY	100.00	97.71
11	4	1	1	1.000000	4	2.341818
				BIAS CORR	0.040909	
				VAR COEFF	0.008264	0.250000
				EFFICIENCY	100.00	95.50
11	3	3	1	1.000000	1	0.333333
			2	0.	2	0.333333
			3	-0.	3	3.000000
				BIAS CORR	0.040909	
				VAR COEFF	0.008264	0.250000
				EFFICIENCY	100.00	100.00
				EFF (M/N)	100.00	27.27
11	3	2	1	1.000000	2	0.444444
			2	0.	3	3.000000

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.090909	
				VAR COEFF	0.008264	0.333837
				EFFICIENCY	100.00	99.85
11	3	1	1	1.000000	3	3.311037
				BIAS CORR	0.090909	
				VAR COEFF	0.008264	0.333578
				EFFICIENCY	100.00	99.33
11	2	2	1	1.000000	1	0.500000
			2	-0.	2	5.000000
				BIAS CORR	0.090909	
				VAR COEFF	0.008264	0.500000
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	18.18
11	2	1	1	1.000000	2	3.238075
				BIAS CORR	0.090909	
				VAR COEFF	0.008264	0.501134
				EFFICIENCY	100.00	99.77
11	1	1	1	1.000000	1	11.000000
				BIAS CORR	0.090909	
				VAR COEFF	0.008264	1.000000
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	9.09
12	12	1	1	1.000000	1	0.083333
			2	0.	2	0.083333
			3	0.	3	0.083333
			4	-0.	4	0.083333
			5	0.	5	0.083333
			6	-0.	6	0.083333
			7	-0.	7	0.083333
			8	-0.	8	0.083333
			9	0.	9	0.083333
			10	-0.	10	0.083333
			11	0.	11	0.083333
			12	0.	12	0.083333
				BIAS CORR	0.083333	
				VAR COEFF	0.006944	0.083333

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		100.00
12	12	11	1	1.000000	2	0.121422
			3	0.	3	0.083360
			4	-0.	4	0.083360
			5	0.	5	0.083360
			6	0.	6	0.083360
			7	-0.	7	0.083360
			8	-0.	8	0.083360
			9	0.	9	0.083360
			10	-0.	10	0.083360
			11	0.	11	0.083360
			12	-0.	12	0.083360
				BIAS CORR		0.083360
				VAR COEFF		0.006444
				EFFICIENCY		100.00
12	12	12	1	1.000000	2	0.167554
			4	-0.	4	0.120770
			5	0.	5	0.083360
			6	-0.	6	0.083360
			7	0.	7	0.083360
			8	0.	8	0.083360
			9	0.	9	0.083360
			10	-0.	10	0.083360
			11	0.	11	0.083360
			12	0.	12	0.083360
				BIAS CORR		0.083360
				VAR COEFF		0.006444
				EFFICIENCY		100.00
12	12	13	1	1.000000	2	0.167678
			2	0.	4	0.166070
			3	-0.	6	0.117650
			4	-0.	7	0.083460
			5	0.	8	0.083460
			6	-0.	9	0.083460
			7	0.	10	0.083460
			8	-0.	11	0.083460
			9	0.	12	0.083460

TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

K	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.083333	
				VAR COEFF	0.006944	0.083460
				EFFICIENCY	100.00	99.85
12	12	6	1	1.000000	2	0.167907
			2	0.	4	0.167907
			3	-0.	6	0.159136
			4	-0.	8	0.117826
			5	0.	9	0.083574
			6	-0.	10	0.083574
			8	0.	11	0.083574
			10	-0.	12	0.083574
				BIAS CORR	0.083333	
				VAR COEFF	0.006944	0.083574
				EFFICIENCY	100.00	99.71
12	12	7	1	1.000000	3	0.204137
			4	-0.	5	0.168994
			5	0.	7	0.170287
			7	-0.	9	0.116432
			8	0.	10	0.083750
			9	-0.	11	0.083749
			11	-0.	12	0.083749
				BIAS CORR	0.083333	
				VAR COEFF	0.006944	0.083749
				EFFICIENCY	100.00	99.50
12	12	8	1	1.000000	3	0.256014
			2	0.	6	0.203731
			3	0.	8	0.172318
			6	0.	10	0.114378
			10	-0.	11	0.084065
			12	0.	12	0.084065
				BIAS CORR	0.083333	
				VAR COEFF	0.006944	0.084065
				EFFICIENCY	100.00	99.13
12	12	9	1	1.000000	4	0.292218
			2	0.	7	0.204877
			3	0.	9	0.176312
			6	-0.	11	0.110711



TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
			11	0.	12	0.084661
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.084661
			EFFICIENCY	100.00		98.43
12	12	4	1	1.000000	5	0.391131
			4	-0.	9	0.234587
			5	0.	11	0.112256
			6	-0.	12	0.085843
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.085843
			EFFICIENCY	100.00		97.08
12	12	3	1	1.000000	6	0.435832
			4	0.	10	0.241293
			5	-0.	12	0.105847
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.084206
			EFFICIENCY	100.00		94.48
12	12	2	1	1.000000	8	0.552632
			4	0.	12	0.140623
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.096092
			EFFICIENCY	100.00		86.72
12	12	1	1	1.000000	10	0.623748
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.122545
			EFFICIENCY	100.00		68.00
12	11	11	1	1.000000	1	0.090909
			2	0.	2	0.090909
			3	-0.	3	0.090909
			4	-0.	4	0.090909
			5	0.	5	0.090909
			6	-0.	6	0.090909
			7	-0.	7	0.090909
			8	-0.	8	0.090909
			9	0.	9	0.090909
			10	-0.	10	0.090909

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
			11	0.	11	0.181818
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.090909
			EFFICIENCY	100.00		100.00
			EFF(M/M)	100.00		91.67
12	11	10	1	1.000000	2	0.132464
			3	0.	3	0.090940
			4	-0.	4	0.090940
			5	0.	5	0.090940
			6	0.	6	0.090940
			7	-0.	7	0.090941
			8	-0.	8	0.090940
			9	0.	9	0.090940
			10	-0.	10	0.090940
			11	-0.	11	0.181881
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.090940
			EFFICIENCY	100.00		99.97
12	11	9	1	1.000000	2	0.182799
			2	0.	4	0.131724
			3	-0.	5	0.090986
			4	-0.	6	0.090986
			5	0.	7	0.090986
			6	-0.	8	0.090986
			8	0.	9	0.090986
			10	-0.	10	0.090986
			11	0.	11	0.181972
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.090986
			EFFICIENCY	100.00		99.92
12	11	8	1	1.000000	2	0.182946
			2	0.	4	0.183383
			3	-0.	6	0.130545
			4	-0.	7	0.091059
			5	0.	8	0.091059
			6	-0.	9	0.091059
			8	0.	10	0.091059
			10	-0.	11	0.182119

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	k	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		0.091059
				EFFICIENCY		99.84
12	11	7	1	1.000000	2	0.183220
			4	-0.	4	0.180657
			5	0.	6	0.184561
			7	-0.	8	0.128571
			9	0.	9	0.091195
			7	-0.	10	0.091195
			10	-0.	11	0.182391
				BIAS CORR		
				VAR COEFF		0.091195
				EFFICIENCY		99.60
17	11	6	1	1.000000	3	0.222791
			3	0.	5	0.184441
			4	0.	7	0.185852
			7	-0.	9	0.127075
			9	0.	10	0.091405
			10	-0.	11	0.182809
				BIAS CORR		
				VAR COEFF		0.091405
				EFFICIENCY		99.46
12	11	5	1	1.000000	3	0.279511
			2	0.	6	0.222430
			5	0.	8	0.188134
			8	-0.	10	0.124821
			11	0.	11	0.183560
				BIAS CORR		
				VAR COEFF		0.091780
				EFFICIENCY		99.05
12	11	4	1	1.000000	4	0.319245
			4	-0.	7	0.223766
			5	0.	9	0.192619
			6	-0.	11	0.213443
				BIAS CORR		
				VAR COEFF		0.092492
				EFFICIENCY		98.29

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE	
12	11	3	1	1.000000	5	0.427860	
			4	0.	9	0.256616	
			6	-0.	11	0.216702	
				BIAS CORR	0.083333		
				VAR COEFF	0.006944		0.093904
				EFFICIENCY	100.00		76.81
		12	11	2	1	1.000000	7
4	0.				11	0.271815	
				BIAS CORR	0.083333		
				VAR COEFF	0.006944		0.098195
				EFFICIENCY	100.00		92.58
12	11	1	1	1.000000	10	0.623748	
				BIAS CORR	0.083333		
				VAR COEFF	0.006944		0.122545
				EFFICIENCY	100.00		74.18
12	10	10	1	1.000000	1	0.100000	
			2	0.	2	0.100000	
			3	-0.	3	0.100000	
			4	-0.	4	0.100000	
			5	0.	5	0.100000	
			6	-0.	6	0.100000	
			7	-0.	7	0.100000	
			8	-0.	8	0.100000	
			9	0.	9	0.100000	
			10	-0.	10	0.300000	
				BIAS CORR	0.083333		
				VAR COEFF	0.006944		0.100000
				EFFICIENCY	100.00		100.00
		EFF(M/N)	100.00		83.33		
12	10	9	1	1.000000	2	0.145715	
			2	0.	3	0.100038	
			3	-0.	4	0.100038	
			4	-0.	5	0.100038	
			5	0.	6	0.100038	
			6	-0.	7	0.100038	
			7	-0.	8	0.100038	
			8	-0.	8	0.100038	

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
			9	0.	9	0.100038
			10	-0.	10	0.300113
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.100038
			EFFICIENCY	100.00		99.96
12	10	9	1	1.000000	2	0.201096
			2	0.	4	0.144886
			3	-0.	5	0.100093
			4	-0.	6	0.100093
			5	0.	7	0.100093
			6	-0.	8	0.100093
			8	0.	9	0.100093
			10	-0.	10	0.300279
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.100093
			EFFICIENCY	100.00		99.91
12	10	7	1	1.000000	2	0.201274
			4	-0.	4	0.201755
			5	0.	6	0.143624
			7	-0.	7	0.100182
			8	0.	8	0.100182
			9	-0.	9	0.100182
			10	-0.	10	0.300545
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.100182
			EFFICIENCY	100.00		99.02
12	10	6	1	1.000000	2	0.201605
			3	0.	4	0.202087
			4	0.	6	0.203081
			7	-0.	8	0.141472
			9	0.	9	0.100347
			10	-0.	10	0.301040
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.100347
			EFFICIENCY	100.00		99.65
12	10	5	1	1.000000	3	0.245203
			2	0.	5	0.202995

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
			5	0.	7	0.204548
			9	0.	9	0.139858
			10	-0.	10	0.301800
				BIAS CORR		0.083333
				VAR COEFF		0.006944
				EFFICIENCY		100.00
12	10	4	1	1.000000	3	0.307757
			4	-0.	6	0.244908
			5	0.	8	0.207146
			6	-0.	10	0.339544
				BIAS CORR		0.083333
				VAR COEFF		0.006944
				EFFICIENCY		100.00
12	10	3	1	1.000000	5	0.389622
			4	0.	8	0.246675
			5	-0.	10	0.342798
				BIAS CORR		0.083333
				VAR COEFF		0.006944
				EFFICIENCY		100.00
12	10	2	1	1.000000	6	0.518090
			4	0.	10	0.412658
				BIAS CORR		0.083333
				VAR COEFF		0.006944
				EFFICIENCY		100.00
12	10	1	1	1.000000	10	0.623748
				BIAS CORR		0.083333
				VAR COEFF		0.006944
				EFFICIENCY		100.00
12	9	9	1	1.000000	1	0.111111
			2	0.	2	0.111111
			3	-0.	3	0.111111
			4	-0.	4	0.111111
			5	0.	5	0.111111
			6	-0.	6	0.111111
			7	-0.	7	0.111111
			8	-0.	8	0.111111

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
			9	0.	9	0.444445
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.111111
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		75.00
12	9	8	1	1.000000	2	0.161913
			2	0.	3	0.111158
			3	-0.	4	0.111158
			4	-0.	5	0.111158
			5	0.	6	0.111158
			6	-0.	7	0.111158
			8	-0.	8	0.111157
			9	0.	9	0.444631
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.111158
			EFFICIENCY	100.00		99.96
12	9	7	1	1.000000	2	0.223463
			2	0.	4	0.161001
			3	-0.	5	0.111226
			5	0.	6	0.111226
			6	-0.	7	0.111226
			7	-0.	8	0.111226
			8	0.	9	0.444904
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.111226
			EFFICIENCY	100.00		99.97
12	9	6	1	1.000000	2	0.223683
			3	0.	4	0.224217
			6	0.	6	0.159614
			7	0.	7	0.111336
			8	0.	8	0.111336
			9	-0.	9	0.445342
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.111336
			EFFICIENCY	100.00		99.80
12	9	5	1	1.000000	2	0.224092
			3	0.	4	0.224627

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
			5	0.	6	0.225732
			6	-0.	8	0.157252
			7	-0.	9	0.446157
				BIAS CORR		0.083333
				VAR COEFF		0.006944
				EFFICIENCY		100.00
12	9	4	1	1.000000	3	0.272630
			4	-0.	5	0.225701
			5	0.	7	0.227427
			6	-0.	9	0.491058
				BIAS CORR		0.083333
				VAR COEFF		0.006944
				EFFICIENCY		100.00
12	9	3	1	1.000000	4	0.389314
			4	0.	7	0.272178
			6	-0.	9	0.493913
				BIAS CORR		0.083333
				VAR COEFF		0.006944
				EFFICIENCY		100.00
12	9	2	1	1.000000	5	0.522153
			4	0.	9	0.577629
				BIAS CORR		0.083333
				VAR COEFF		0.006944
				EFFICIENCY		100.00
12	9	1	1	1.000000	9	0.787478
				BIAS CORR		0.083333
				VAR COEFF		0.006944
				EFFICIENCY		100.00
12	8	9	1	1.000000	1	0.125000
			2	0.	2	0.125000
			3	-0.	3	0.125000
			4	-0.	4	0.125000
			5	0.	5	0.125000
			6	-0.	6	0.125000
			7	-0.	7	0.125000
			8	0.	8	0.625000



TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.083333	
				VAR COEFF	0.006944	0.125000
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	66.67
12	8	7	1	1.000000	2	0.182161
			2	0.	3	0.125059
			3	-0.	4	0.125059
			5	0.	5	0.125059
			6	-0.	6	0.125059
			7	-0.	7	0.125059
			8	0.	8	0.625295
				BIAS CORR	0.083333	
				VAR COEFF	0.006944	0.125059
				EFFICIENCY	100.00	99.95
12	8	6	1	1.000000	2	0.251428
			4	-0.	4	0.181150
			5	0.	5	0.125145
			6	-0.	6	0.125146
			7	0.	7	0.125145
			8	-0.	8	0.625727
				BIAS CORR	0.083333	
				VAR COEFF	0.006944	0.125145
				EFFICIENCY	100.00	99.88
12	8	5	1	1.000000	2	0.251707
			3	0.	4	0.252308
			5	0.	6	0.179611
			6	-0.	7	0.125284
			7	-0.	8	0.626421
				BIAS CORR	0.083333	
				VAR COEFF	0.006944	0.125284
				EFFICIENCY	100.00	99.77
12	8	4	1	1.000000	2	0.252225
			4	-0.	4	0.252827
			5	0.	6	0.254071
			6	-0.	8	0.679162
				BIAS CORR	0.083333	
				VAR COEFF	0.006944	0.125542

**TABLE II**  
**COEFFICIENTS FOR ESTIMATION OF**  
**LOCATION AND SCALE PARAMETERS OF A**  
**WEIBULL POPULATION FROM L-ORDER STATISTICS**  
**(SAMPLE SIZES 11 TO 13)**

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		99.57
12	8	3	1	1.000000	3	0.383769
			4	0.	6	0.305397
			6	-0.	8	0.681715
				BIAS CORR		0.126014
				VAR COEFF		99.20
				EFFICIENCY		
12	8	2	1	1.000000	5	0.487007
			4	0.	8	0.736809
				BIAS CORR		0.127523
				VAR COEFF		98.02
				EFFICIENCY		
12	8	1	1	1.000000	8	0.980510
				BIAS CORR		0.135909
				VAR COEFF		91.97
				EFFICIENCY		
12	7	7	1	1.000000	1	0.142857
			2	0.	2	0.142857
			3	-0.	3	0.142857
			4	-0.	4	0.142857
			5	0.	5	0.142857
			6	-0.	6	0.142857
			7	-0.	7	0.857143
				BIAS CORR		0.142857
				VAR COEFF		100.00
				EFFICIENCY		58.33
				EFF(M/N)		
12	7	6	1	1.000000	2	0.208198
			2	0.	3	0.142934
			3	-0.	4	0.142934
			5	0.	5	0.142934
			6	-0.	6	0.142934
			7	-0.	7	0.857605
				BIAS CORR		0.142934
				VAR COEFF		99.95
				EFFICIENCY		

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	i	LOCATION	i	SCALE				
12	7	5	1	1.000000	2	0.287395				
			3	0.	4	0.207063				
			5	0.	5	0.143047				
			7	-0.	6	0.143047				
			7	-0.	7	0.050203				
			BIAS CORR		0.083333					
			VAR COEFF		0.006944		0.143047			
			EFFICIENCY		100.00		49.97			
			12	7	4	1	1.000000	2	0.287759	
						4	-0.	4	0.288446	
5	0.	6				0.205337				
6	-0.	7				0.059371				
BIAS CORR		0.083333								
VAR COEFF		0.006944					0.143270			
EFFICIENCY		100.00					49.74			
12	7	3				1	1.000000	3	0.349963	
						4	0.	5	0.289773	
						6	-0.	7	0.922709	
			BIAS CORR		0.083333					
			VAR COEFF		0.006944		0.143580			
			EFFICIENCY		100.00		49.50			
			12	7	2	1	1.000000	4	0.494706	
						4	0.	7	0.985073	
						BIAS CORR		0.083333		
						VAR COEFF		0.006944		0.144693
EFFICIENCY		100.00					48.76			
12	7	1				1	1.000000	7	1.219695	
						BIAS CORR		0.083333		
						VAR COEFF		0.006944		0.150797
						EFFICIENCY		100.00		44.73
						12	6	1	1	1.000000
			2	0.	2				0.166667	
			3	-0.	3				0.166667	
			4	-0.	4				0.166667	
			5	0.	5				0.166667	

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
			6	-0.	6	1.166667
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.166667
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		50.00
12	6	3	1	1.000000	2	0.242920
			2	0.	3	0.166772
			3	-0.	4	0.166772
			4	-0.	5	0.166772
			5	0.	6	1.167401
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.166772
			EFFICIENCY	100.00		99.94
12	6	4	1	1.000000	2	0.335368
			4	-0.	4	0.241627
			5	0.	5	0.166925
			6	-0.	6	1.168478
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.166925
			EFFICIENCY	100.00		99.85
12	5	3	1	1.000000	2	0.335864
			4	0.	4	0.336666
			6	-0.	6	1.242697
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.167172
			EFFICIENCY	100.00		99.70
12	6	2	1	1.000000	3	0.511666
			4	0.	6	1.316083
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.168010
			EFFICIENCY	100.00		99.20
12	6	1	1	1.000000	6	1.530900
			BIAS CORR	0.083333		
			VAR COEFF	0.006944		0.172464
			EFFICIENCY	100.00		96.64

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE			
12	5	3	1	1.000000	1	0.200000			
			2	0.	2	0.200000			
			3	-0.	3	0.200000			
			4	-0.	4	0.200000			
			5	0.	5	1.600000			
			BIAS CORR	0.083333					
			VAR COEFF	0.006944		0.200000			
			EFFICIENCY	100.00		100.00			
		EFF(M/N)	100.00			41.67			
12	5	4	1	1.000000	2	0.291541			
			2	0.	3	0.200151			
			3	-0.	4	0.200151			
			4	0.	5	1.601208			
			BIAS CORR	0.083333					
			VAR COEFF	0.006944		0.200151			
			EFFICIENCY	100.00		99.92			
12	5	3	1	1.000000	2	0.402567			
			2	0.	4	0.290042			
			3	-0.	5	1.602981			
			BIAS CORR	0.083333					
			VAR COEFF	0.006944		0.200373			
			EFFICIENCY	100.00		99.81			
12	5	2	1	1.000000	3	0.489781			
			4	0.	5	1.696238			
			BIAS CORR	0.083333					
			VAR COEFF	0.006944		0.200943			
			EFFICIENCY	100.00		99.53			
12	5	1	1	1.000000	5	1.959426			
			BIAS CORR	0.083333					
			VAR COEFF	0.006944		0.204175			
			EFFICIENCY	100.00		97.96			
12	4	4	1	1.000000	1	0.250000			
			2	0.	2	0.250000			
			3	-0.	3	0.250000			
			4	0.	4	2.250000			
			BIAS CORR	0.083333					

**TABLE II**  
**COEFFICIENTS FOR ESTIMATION OF**  
**LOCATION AND SCALE PARAMETERS OF A**  
**WEIBULL POPULATION FROM L-ORDER STATISTICS**  
**(SAMPLE SIZES 11 TO 13)**

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF	0.006944	0.250000
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	33.33
12	4	3	1	1.000000	2	0.364495
			2	0.	3	0.250236
			3	-0.	4	2.252125
				BIAS CORR	0.083333	
				VAR COEFF	0.006944	0.250236
				EFFICIENCY	100.00	99.91
12	4	2	1	1.000000	2	0.503443
			4	0.	4	2.367382
				BIAS CORR	0.083333	
				VAR COEFF	0.006944	0.250583
				EFFICIENCY	100.00	95.77
12	4	1	1	1.000000	4	2.595020
				BIAS CORR	0.083333	
				VAR COEFF	0.006944	0.252897
				EFFICIENCY	100.00	98.85
12	3	3	1	1.000000	1	0.333333
			2	0.	2	0.333333
			3	-0.	3	3.333333
				BIAS CORR	0.083333	
				VAR COEFF	0.006944	0.333333
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	25.00
12	3	2	1	1.000000	2	0.486146
			2	0.	3	3.337532
				BIAS CORR	0.083333	
				VAR COEFF	0.006944	0.333753
				EFFICIENCY	100.00	99.87
12	3	1	1	1.000000	3	3.646409
				BIAS CORR	0.083333	
				VAR COEFF	0.006944	0.335185
				EFFICIENCY	100.00	99.45

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE	
12	2	2	1	1.000000	1	0.500000	
			2	0.	2	5.500000	
				BIAS CORR	0.083333		
				VAR COEFF	0.006944		0.500000
				EFFICIENCY	100.00		100.00
				EFF(M/N)	100.00		16.67
12	2	1	1	1.000000	2	5.739131	
				BIAS CORR	0.083333		
				VAR COEFF	0.006944		0.500945
				EFFICIENCY	100.00		99.81
12	1	1	1	1.000000	1	12.000000	
				BIAS CORR	0.083333		
				VAR COEFF	0.006944		1.000000
				EFFICIENCY	100.00		100.00
				EFF(M/N)	100.00		8.33
13	13	13	1	1.000000	1	0.076923	
			2	0.	2	0.076923	
			3	-0.	3	0.076923	
			4	0.	4	0.076923	
			5	-0.	5	0.076923	
			6	0.	6	0.076923	
			7	-0.	7	0.076923	
			8	0.	8	0.076923	
			9	-0.	9	0.076923	
			10	-0.	10	0.076923	
			11	0.	11	0.076923	
			12	-0.	12	0.076923	
			13	-0.	13	0.076923	
				BIAS CORR	0.076923		
	VAR COEFF	0.005917		0.076923			
	EFFICIENCY	100.00		100.00			
	EFF(M/N)	100.00		100.00			
13	13	12	1	1.000000	2	0.112340	
			2	0.	3	0.076942	
			3	-0.	4	0.076942	
			4	0.	5	0.076942	
			5	-0.	6	0.076942	

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
			6	0.	7	0.076942
			7	-0.	8	0.076942
			8	0.	9	0.076942
			9	-0.	10	0.076942
			11	0.	11	0.076942
			12	-0.	12	0.076942
			13	-0.	13	0.076942
			BIAS CORR		0.076923	
			VAR COEFF		0.005917	0.076942
			EFFICIENCY		100.00	99.98
12	12	11	1	1.000000	2	0.154521
			2	0.	4	0.111796
			3	-0.	5	0.076969
			4	0.	6	0.076969
			5	-0.	7	0.076969
			6	0.	8	0.076969
			7	-0.	9	0.076969
			8	0.	10	0.076969
			9	-0.	11	0.076969
			10	0.	12	0.076969
			12	0.	13	0.076969
			BIAS CORR		0.076923	
			VAR COEFF		0.005917	0.076969
			EFFICIENCY		100.00	99.94
13	13	10	1	1.000000	2	0.154603
			2	0.	4	0.154875
			3	-0.	6	0.111000
			4	0.	7	0.077010
			5	-0.	8	0.077010
			6	0.	9	0.077010
			7	-0.	10	0.077010
			8	0.	11	0.077010
			10	-0.	12	0.077010
			12	0.	13	0.077010
			BIAS CORR		0.076923	
			VAR COEFF		0.005917	0.077010
			EFFICIENCY		100.00	99.89
13	13	9	1	1.000000	2	0.154743



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
			2	0.	4	0.155015
			3	-0.	6	0.155535
			4	0.	8	0.109725
			5	-0.	9	0.077079
			6	-0.	10	0.077079
			8	0.	11	0.077080
			10	-0.	12	0.077079
			11	0.	13	0.077079
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.077080
			EFFICIENCY	100.00		99.90
13	13	8	1	1.000000	3	0.188446
			2	0.	5	0.155449
			3	-0.	7	0.156213
			4	0.	9	0.108823
			5	-0.	10	0.077189
			6	-0.	11	0.077189
			8	0.	12	0.077188
			10	-0.	13	0.077188
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.077188
			EFFICIENCY	100.00		99.66
13	13	7	1	1.000000	3	0.234971
			2	0.	6	0.187877
			3	-0.	8	0.157312
			4	0.	10	0.107561
			5	-0.	11	0.077369
			10	0.	12	0.077369
			12	0.	13	0.077369
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.077369
			EFFICIENCY	100.00		99.42
13	13	6	1	1.000000	4	0.267379
			2	0.	7	0.188248
			3	-0.	9	0.159222
			4	0.	11	0.105639
			5	0.	12	0.077676
			12	0.	13	0.077676

**TABLE II**  
**COEFFICIENTS FOR ESTIMATION OF**  
**LOCATION AND SCALE PARAMETERS OF A**  
**WEIBULL POPULATION FROM L-ORDER STATISTICS**  
**(SAMPLE SIZES 11 TO 13)**

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.076923	
				VAR COEFF	0.005917	0.077676
				EFFICIENCY	100.00	99.03
12	13	3	1	1.000000	5	0.299403
			3	0.	8	0.189602
			6	0.	10	0.163038
			7	-0.	12	0.102376
			8	0.	13	0.078288
				BIAS CORR	0.076923	
				VAR COEFF	0.005917	0.078288
				EFFICIENCY	100.00	98.26
12	13	4	1	1.000000	6	0.389045
			3	0.	10	0.217100
			4	0.	12	0.103888
			5	-0.	13	0.079444
				BIAS CORR	0.076923	
				VAR COEFF	0.005917	0.079444
				EFFICIENCY	100.00	96.83
12	13	5	1	1.000000	7	0.428615
			3	0.	11	0.223421
			4	-0.	13	0.098007
				BIAS CORR	0.076923	
				VAR COEFF	0.005917	0.081673
				EFFICIENCY	100.00	94.18
13	13	2	1	1.000000	9	0.533452
			3	-0.	13	0.130469
				BIAS CORR	0.076923	
				VAR COEFF	0.005917	0.089154
				EFFICIENCY	100.00	86.28
12	13	1	1	1.000000	11	0.595191
				BIAS CORR	0.076923	
				VAR COEFF	0.005917	0.113677
				EFFICIENCY	100.00	67.67
12	12	12	1	1.000000	1	0.083333
			2	0.	2	0.083333

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	i	LOCATION	i	SCALE
			3	-0.	3	0.083333
			4	0.	4	0.083333
			5	-0.	5	0.083333
			6	0.	6	0.083333
			7	-0.	7	0.083333
			8	0.	8	0.083333
			9	-0.	9	0.083333
			10	-0.	10	0.083333
			11	0.	11	0.083334
			12	-0.	12	0.166667
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.083333
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		92.31
13	12	11	1	1.000000	2	0.121704
			2	0.	3	0.083356
			3	-0.	4	0.083356
			4	0.	5	0.083356
			5	-0.	6	0.083356
			6	0.	7	0.083356
			7	-0.	8	0.083356
			8	0.	9	0.083356
			9	-0.	10	0.083356
			10	0.	11	0.083356
			12	0.	12	0.166711
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.083356
			EFFICIENCY	100.00		99.97
13	12	10	1	1.000000	2	0.167406
			2	0.	4	0.121119
			3	-0.	5	0.083387
			4	0.	6	0.083387
			5	-0.	7	0.083387
			6	0.	8	0.083387
			7	-0.	9	0.083387
			8	0.	10	0.083387
			10	-0.	11	0.083387
			12	0.	12	0.166774
			BIAS CORR	0.076923		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF	0.005917	0.083387
				EFFICIENCY	100.00	99.94
12	12	9	1	1.000000	2	0.167502
			2	0.	4	0.167797
			3	-0.	6	0.120262
			4	0.	7	0.083435
			5	-0.	8	0.083435
			6	-0.	9	0.083435
			8	0.	10	0.083435
			10	-0.	11	0.083435
			11	0.	12	0.166870
				BIAS CORR	0.076923	
				VAR COEFF	0.005917	0.083435
				EFFICIENCY	100.00	99.88
12	12	8	1	1.000000	2	0.167667
			2	0.	4	0.167962
			3	-0.	6	0.168525
			4	0.	8	0.118889
			5	-0.	9	0.083517
			6	-0.	10	0.083517
			8	0.	11	0.083517
			10	-0.	12	0.167034
				BIAS CORR	0.076923	
				VAR COEFF	0.005917	0.083517
				EFFICIENCY	100.00	99.78
13	12	7	1	1.000000	3	0.204209
			2	0.	5	0.169451
			3	-0.	7	0.169280
			4	0.	9	0.117925
			5	-0.	10	0.083645
			10	0.	11	0.083645
			12	0.	12	0.167290
				BIAS CORR	0.076923	
				VAR COEFF	0.005917	0.083645
				EFFICIENCY	100.00	99.63
13	12	6	1	1.000000	3	0.254675
			2	0.	6	0.203631

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
			3	-0.	8	0.170504
			4	0.	10	0.116581
			5	0.	11	0.083856
			12	0.	12	0.167713
				BIAS CORR		0.076923
				VAR COEFF		0.005917
				EFFICIENCY		100.00
12	12		1	1.000000	4	0.290439
			3	0.	7	0.204101
			6	0.	9	0.172531
			7	-0.	11	0.114535
			8	0.	12	0.168434
				BIAS CORR		0.076923
				VAR COEFF		0.005917
				EFFICIENCY		100.00
13	12		1	1.000000	5	0.324834
			3	0.	8	0.205489
			4	0.	10	0.176886
			5	-0.	12	0.196009
				BIAS CORR		0.076923
				VAR COEFF		0.005917
				EFFICIENCY		100.00
13	12	3	1	1.000000	6	0.422619
			3	0.	10	0.235836
			4	-0.	12	0.199154
				BIAS CORR		0.076923
				VAR COEFF		0.005917
				EFFICIENCY		100.00
13	12	2	1	1.000000	8	0.506029
			3	-0.	12	0.250532
				BIAS CORR		0.076923
				VAR COEFF		0.005917
				EFFICIENCY		100.00
12	12	1	1	1.000000	11	0.595191
				BIAS CORR		0.076923
				VAR COEFF		0.005917

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE	
				100.00		73.31	
			EFFICIENCY				
12	11	11	1	1.000000	1	0.090909	
			2	0.	2	0.090909	
			3	-0.	3	0.090909	
			4	0.	4	0.090909	
			5	-0.	5	0.090909	
			6	0.	6	0.090909	
			7	-0.	7	0.090909	
			8	0.	8	0.090909	
			9	-0.	9	0.090909	
			10	-0.	10	0.090909	
			11	0.	11	0.272727	
			BIAS CORR				
			0.076923				
			VAR COEFF				
			0.005917				0.090909
			EFFICIENCY				100.00
			EFF(M/N)				84.62
12	11	10	1	1.000000	2	0.132772	
			2	0.	3	0.090936	
			3	-0.	4	0.090936	
			4	0.	5	0.090936	
			5	-0.	6	0.090936	
			6	0.	7	0.090936	
			7	-0.	8	0.090936	
			8	0.	9	0.090936	
			9	-0.	10	0.090936	
			11	0.	11	0.272807	
			BIAS CORR				
			0.076923				
			VAR COEFF				
			0.005917				0.090936
			EFFICIENCY				99.97
12	11	9	1	1.000000	2	0.182635	
			2	0.	4	0.132137	
			3	-0.	5	0.090973	
			4	0.	6	0.090973	
			5	-0.	7	0.090973	
			6	-0.	8	0.090973	
			8	0.	9	0.090973	
			10	-0.	10	0.090973	
			11	0.	11	0.272919	

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.076923	
				VAR COEFF	0.005917	0.090973
				EFFICIENCY	100.00	99.93
13	11	C	1	1.000000	2	0.182750
			2	0.	4	0.183071
			3	-0.	6	0.131209
			4	0.	7	0.091030
			5	-0.	8	0.091030
			6	-0.	9	0.091030
			8	0.	10	0.091030
			10	-0.	11	0.273040
				BIAS CORR	0.076923	
				VAR COEFF	0.005917	0.091030
				EFFICIENCY	100.00	99.87
13	11	7	1	1.000000	2	0.182946
			2	0.	4	0.183260
			3	-0.	6	0.183882
			4	0.	8	0.129723
			5	-0.	9	0.091127
			6	0.	10	0.091128
			7	-0.	11	0.273383
				BIAS CORR	0.076923	
				VAR COEFF	0.005917	0.091128
				EFFICIENCY	100.00	99.76
13	11	6	1	1.000000	3	0.222849
			3	0.	5	0.183827
			6	0.	7	0.184737
			7	-0.	9	0.178690
			8	0.	10	0.091280
			9	-0.	11	0.273840
				BIAS CORR	0.076923	
				VAR COEFF	0.005917	0.091280
				EFFICIENCY	100.00	99.59
13	11	5	1	1.000000	3	0.277986
			3	0.	6	0.222270
			6	0.	8	0.186111
			7	-0.	10	0.127257

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
			8	0.	11	0.274596
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.091532
			EFFICIENCY	100.00		99.32
13	11	4	1	1.000000	4	0.317149
			3	0.	7	0.222871
			4	0.	9	0.188507
			5	-0.	11	0.308992
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.091962
			EFFICIENCY	100.00		98.86
13	11	3	1	1.000000	5	0.420454
			3	0.	9	0.255927
			4	-0.	11	0.312425
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.092987
			EFFICIENCY	100.00		97.77
13	11	2	1	1.000000	7	0.502486
			3	-0.	11	0.376826
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.095749
			EFFICIENCY	100.00		94.95
13	11	1	1	1.000000	11	0.595191
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.113677
			EFFICIENCY	100.00		79.97
13	10	10	1	1.000000	1	0.100000
			2	0.	2	0.100000
			3	-0.	3	0.100000
			4	0.	4	0.100000
			5	-0.	5	0.100000
			6	0.	6	0.100000
			7	-0.	7	0.100000
			8	0.	8	0.100000
			9	-0.	9	0.100000
			10	0.	10	0.400000



TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		0.076923
				VAR COEFF		0.005917
				EFFICIENCY		100.00
				EFF(M/N)		100.00
13	10	9	1	1.000000	2	0.146053
			2	0.	3	0.100032
			3	-0.	4	0.100032
			4	0.	5	0.100032
			5	-0.	6	0.100032
			6	0.	7	0.100032
			7	-0.	8	0.100032
			8	0.	9	0.100032
			10	-0.	10	0.400128
				BIAS CORR		0.076923
				VAR COEFF		0.005917
				EFFICIENCY		100.00
13	10	8	1	1.000000	2	0.200913
			2	0.	4	0.145361
			3	-0.	5	0.100077
			4	0.	6	0.100077
			5	-0.	7	0.100077
			6	-0.	8	0.100077
			8	0.	9	0.100077
			10	-0.	10	0.400309
				BIAS CORR		0.076923
				VAR COEFF		0.005917
				EFFICIENCY		100.00
13	10	7	1	1.000000	2	0.201051
			2	0.	4	0.201405
			3	-0.	6	0.144349
			4	0.	7	0.100146
			5	-0.	8	0.100146
			6	0.	9	0.100146
			9	-0.	10	0.400586
				BIAS CORR		0.076923
				VAR COEFF		0.005917
				EFFICIENCY		100.00

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE			
13	10	6	1	1.000000	2	0.201289			
			3	0.	4	0.201643			
			6	0.	6	0.202319			
			7	-0.	8	0.142730			
			8	0.	9	0.100264			
			9	-0.	10	0.401058			
			BIAS CORR		0.076923				
			VAR COEFF		0.005917	0.100265			
			EFFICIENCY		100.00	99.74			
			12	10	5	1	1.000000	3	0.245234
3	0.	5				0.202293			
6	0.	7				0.203288			
7	-0.	9				0.141116			
8	0.	10				0.401796			
BIAS CORR		0.076923							
VAR COEFF		0.005917				0.100449			
EFFICIENCY		100.00				99.55			
13	10	4				1	1.000000	3	0.305994
						3	0.	6	0.244665
			4	0.	8	0.204862			
			5	-0.	10	0.442336			
			BIAS CORR		0.076923				
			VAR COEFF		0.005917	0.100754			
			EFFICIENCY		100.00	99.25			
			13	10	3	1	1.000000	5	0.388251
						3	0.	8	0.245606
						4	-0.	10	0.445694
BIAS CORR		0.076923							
VAR COEFF		0.005917				0.101519			
EFFICIENCY		100.00				98.50			
13	10	2				1	1.000000	6	0.506714
						3	-0.	10	0.521546
						BIAS CORR		0.076923	
						VAR COEFF		0.005917	0.103472
			EFFICIENCY		100.00	96.64			
			13	10	1	1	1.000000	10	0.742501

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.076923	
				VAR COEFF	0.005917	0.115655
				EFFICIENCY	100.00	86.46
13	9	9	1	1.000000	1	0.111111
			2	0.	2	0.111111
			3	-0.	3	0.111111
			4	0.	4	0.111111
			5	-0.	5	0.111111
			6	0.	6	0.111111
			7	-0.	7	0.111111
			8	0.	8	0.111111
			9	-0.	9	0.555555
				BIAS CORR	0.076923	
				VAR COEFF	0.005917	0.111111
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	69.23
13	9	8	1	1.000000	2	0.162287
			2	0.	3	0.111151
			3	-0.	4	0.111151
			4	0.	5	0.111151
			5	-0.	6	0.111150
			6	0.	7	0.111151
			7	-0.	8	0.111150
			8	0.	9	0.555753
				BIAS CORR	0.076923	
				VAR COEFF	0.005917	0.111151
				EFFICIENCY	100.00	99.96
13	9	7	1	1.000000	2	0.223255
			2	0.	4	0.161526
			3	-0.	5	0.111206
			4	0.	6	0.111207
			5	-0.	7	0.111207
			6	0.	8	0.111206
			9	-0.	9	0.556033
				BIAS CORR	0.076923	
				VAR COEFF	0.005917	0.111206
				EFFICIENCY	100.00	99.91

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE			
13	9	6	1	1.000000	2	0.223427			
			3	0.	4	0.223820			
			6	0.	6	0.160414			
			7	-0.	7	0.111292			
			8	0.	8	0.111292			
			9	-0.	9	0.556459			
			BIAS CORR		0.076923				
			VAR COEFF		0.005917	0.111292			
			EFFICIENCY		100.00	99.84			
			13	9	5	1	1.000000	2	0.223720
3	0.	4				0.224114			
6	0.	6				0.224865			
7	-0.	8				0.158635			
8	0.	9				0.557189			
BIAS CORR		0.076923							
VAR COEFF		0.005917				0.111438			
EFFICIENCY		100.00				99.71			
13	9	4				1	1.000000	3	0.272618
						3	0.	5	0.224882
			4	0.	7	0.225988			
			5	-0.	9	0.604092			
			BIAS CORR		0.076923				
			VAR COEFF		0.005917	0.111666			
			EFFICIENCY		100.00	99.50			
			13	9	3	1	1.000000	4	0.386882
						3	0.	7	0.271875
						4	-0.	9	0.606888
BIAS CORR		0.076923							
VAR COEFF		0.005917				0.112182			
EFFICIENCY		100.00				99.05			
13	9	2				1	1.000000	5	0.514161
						3	-0.	9	0.695035
						BIAS CORR		0.076923	
						VAR COEFF		0.005917	0.113711
			EFFICIENCY		100.00	97.71			
			13	9	1	1	1.000000	9	0.911743

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.076923	
				VAR COEFF	0.005917	0.122432
				EFFICIENCY	100.00	90.75
13	8	8	1	1.000000	1	0.125000
			2	0.	2	0.125000
			3	-0.	3	0.125000
			4	0.	4	0.125000
			5	-0.	5	0.125000
			6	0.	6	0.125000
			7	-0.	7	0.125000
			8	0.	8	0.750000
				BIAS CORR	0.076923	
				VAR COEFF	0.005917	0.125000
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	61.54
13	8	7	1	1.000000	2	0.182581
			2	0.	3	0.125050
			3	-0.	4	0.125050
			5	0.	5	0.125050
			6	-0.	6	0.125050
			7	-0.	7	0.125050
			8	0.	8	0.750299
				BIAS CORR	0.076923	
				VAR COEFF	0.005917	0.125050
				EFFICIENCY	100.00	99.96
13	8	6	1	1.000000	2	0.251189
			2	0.	4	0.181736
			3	-0.	5	0.125121
			4	0.	6	0.125121
			5	-0.	7	0.125121
			7	0.	8	0.750724
				BIAS CORR	0.076923	
				VAR COEFF	0.005917	0.125121
				EFFICIENCY	100.00	99.90
13	8	5	1	1.000000	2	0.251406
			3	0.	4	0.251849
			6	0.	6	0.180502

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
			7	-0.	7	0.125229
			8	0.	8	0.751373
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.125229
			EFFICIENCY	100.00		99.82
12	8	4	1	1.000000	2	0.251777
			3	0.	4	0.252220
			4	0.	6	0.253066
			5	-0.	8	0.805598
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.125414
			EFFICIENCY	100.00		99.67
12	8	3	1	1.000000	3	0.382039
			3	0.	6	0.305469
			4	-0.	8	0.808040
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.125794
			EFFICIENCY	100.00		99.37
13	8	2	1	1.000000	5	0.485655
			3	-0.	8	0.864733
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.126988
			EFFICIENCY	100.00		98.43
13	8	1	1	1.000000	8	1.115075
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.133395
			EFFICIENCY	100.00		93.71
13	7	7	1	1.000000	1	0.142857
			2	0.	2	0.142857
			3	-0.	3	0.142857
			4	0.	4	0.142857
			5	-0.	5	0.142857
			6	0.	6	0.142857
			7	0.	7	1.000000
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.142857

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		53.85
13	7	6	1	1.000000	2	0.208676
			2	0.	3	0.142922
			3	-0.	4	0.142922
			4	0.	5	0.142923
			5	-0.	6	0.142922
			7	0.	7	1.000457
				BIAS CORR		0.076923
				VAR COEFF		0.005917
				EFFICIENCY		100.00
						0.142922
						99.95
13	7	5	1	1.000000	2	0.287113
			2	0.	4	0.207727
			3	-0.	5	0.143015
			4	0.	6	0.143015
			5	-0.	7	1.001104
				BIAS CORR		0.076923
				VAR COEFF		0.005917
				EFFICIENCY		100.00
						0.143015
						99.85
13	7	4	1	1.000000	2	0.287397
			3	0.	4	0.287903
			4	0.	6	0.206342
			5	-0.	7	1.002092
				BIAS CORR		0.076923
				VAR COEFF		0.005917
				EFFICIENCY		100.00
						0.143156
						99.79
13	7	3	1	1.000000	3	0.350184
			3	0.	5	0.288866
			4	-0.	7	1.066257
				BIAS CORR		0.076923
				VAR COEFF		0.005917
				EFFICIENCY		100.00
						0.143437
						99.60
13	7	2	1	1.000000	4	0.497614
			3	-0.	7	1.130279
				BIAS CORR		0.076923
				VAR COEFF		0.005917
						0.144291

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	100.00	99.01
13	7	1	1	1.000000	7	1.369612
				BIAS CORR	0.076923	
				VAR COEFF	0.005917	0.149138
				EFFICIENCY	100.00	95.79
13	6	6	1	1.000000	1	0.166667
			2	0.	2	0.166667
			3	-0.	3	0.166667
			4	0.	4	0.166667
			5	-0.	5	0.166666
			6	0.	6	1.333333
				BIAS CORR	0.076923	
				VAR COEFF	0.005917	0.166667
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	46.15
13	6	5	1	1.000000	2	0.243474
			2	0.	3	0.166756
			3	-0.	4	0.166755
			4	0.	5	0.166756
			5	-0.	6	1.334044
				BIAS CORR	0.076923	
				VAR COEFF	0.005917	0.166755
				EFFICIENCY	100.00	99.95
13	6	4	1	1.000000	2	0.335027
			3	0.	4	0.242393
			4	0.	5	0.166881
			5	-0.	6	1.335051
				BIAS CORR	0.076923	
				VAR COEFF	0.005917	0.166881
				EFFICIENCY	100.00	99.87
13	6	3	1	1.000000	2	0.335413
			3	0.	4	0.336003
			4	-0.	6	1.410332
				BIAS CORR	0.076923	
				VAR COEFF	0.005917	0.167074
				EFFICIENCY	100.00	99.76



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
{SAMPLE SIZES 11 TO 13}

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
13	6	2	1	1.000000	3	0.509459
			3	-0.	6	1.484891
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.167749
			EFFICIENCY	100.00		99.35
13	6	1	1	1.000000	6	1.702775
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.171348
			EFFICIENCY	100.00		97.27
13	5	5	1	1.000000	1	0.200000
			2	0.	2	0.200000
			3	-0.	3	0.200000
			4	0.	4	0.200000
			5	-0.	5	1.800000
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.200000
			EFFICIENCY	100.00		100.00
			EFF(M/N)	100.00		38.46
13	5	4	1	1.000000	2	0.292199
			3	0.	3	0.200128
			4	0.	4	0.200128
			5	-0.	5	1.801151
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.200128
			EFFICIENCY	100.00		99.94
13	5	3	1	1.000000	2	0.402136
			3	0.	4	0.290947
			4	-0.	5	1.802783
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.200309
			EFFICIENCY	100.00		99.85
13	5	2	1	1.000000	3	0.490182
			3	-0.	5	1.896880
			BIAS CORR	0.076923		
			VAR COEFF	0.005917		0.200781

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	100.00	99.61
13	5	1	1	1.000000	5	2.163207
				BIAS CORR	0.076923	
				VAR COEFF	0.005917	0.203424
				EFFICIENCY	100.00	98.32
13	4	4	1	1.000000	1	0.250000
			2	0.	2	0.250000
			3	-0.	3	0.250000
			4	0.	4	2.500000
				BIAS CORR	0.076923	
				VAR COEFF	0.005917	0.250000
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	30.77
13	4	3	1	1.000000	2	0.365308
			3	0.	3	0.250200
			4	-0.	4	2.501998
				BIAS CORR	0.076923	
				VAR COEFF	0.005917	0.250200
				EFFICIENCY	100.00	99.92
13	4	2	1	1.000000	2	0.502864
			3	-0.	4	2.620175
				BIAS CORR	0.076923	
				VAR COEFF	0.005917	0.250483
				EFFICIENCY	100.00	99.81
13	4	1	1	1.000000	4	2.847660
				BIAS CORR	0.076923	
				VAR COEFF	0.005917	0.252407
				EFFICIENCY	100.00	99.05
13	3	3	1	1.000000	1	0.333333
			2	0.	2	0.333334
			3	-0.	3	3.666667
				BIAS CORR	0.076923	
				VAR COEFF	0.005917	0.333333
				EFFICIENCY	100.00	100.00
				EFF(N/N)	100.00	23.08

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 1.00

N	M	L	I	LOCATION	I	SCALE		
13	3	2	1	1.000000	2	0.487207		
			3	-0.	3	3.670575		
				BIAS CORR		0.076923		0.333689
				VAR COEFF		0.005917		99.89
			EFFICIENCY		100.00			
13	3	1	1	1.000000	3	3.981439		
				BIAS CORR		0.076923		0.334887
				VAR COEFF		0.005917		99.54
				EFFICIENCY		100.00		
13	2	2	1	1.000000	1	0.500000		
			2	0.	2	6.000000		
				BIAS CORR		0.076923		0.500000
				VAR COEFF		0.005917		100.00
				EFF(M/N)		100.00		15.38
13	2	1	1	1.000000	2	6.240000		
				BIAS CORR		0.076923		0.500800
				VAR COEFF		0.005917		99.84
				EFFICIENCY		100.00		
13	1	1	1	1.000000	1	13.000000		
				BIAS CORR		0.076923		1.000000
				VAR COEFF		0.005917		100.00
				EFFICIENCY		100.00		7.69
				EFF(M/N)		100.00		

**TABLE II**  
**COEFFICIENTS FOR ESTIMATION OF**  
**LOCATION AND SCALE PARAMETERS OF A**  
**WEIBULL POPULATION FROM L-ORDER STATISTICS**  
**(SAMPLE SIZES 11 TO 13)**  
**SHAPE PARAMETER = 1.25**

N	M	L	I	LOCATION	I	SCALE		
11	11	11	1	0.873115	1	0.058147		
			2	0.043206	2	0.066113		
			3	0.024648	3	0.072042		
			4	0.016323	4	0.077019		
			5	0.011745	5	0.081499		
			6	0.008858	6	0.085740		
			7	0.006892	7	0.089939		
			8	0.005434	8	0.094302		
			9	0.004289	9	0.099134		
			10	0.003304	10	0.105104		
			11	0.002186	11	0.117820		
	BIAS CORR		0.191536					
	VAR COEFF		0.011794		0.058304			
	EFFICIENCY		100.00		100.00			
	EFF(M/M)		100.00		100.00			
11	11	10	1	0.873164	2	0.095814		
			2	0.043207	3	0.072045		
			3	0.024649	4	0.077040		
			4	0.016322	5	0.081523		
			5	0.011747	6	0.085771		
			6	0.008853	7	0.089971		
			7	0.010211	8	0.094337		
			9	0.006357	9	0.099171		
			10	0.003302	10	0.105144		
			11	0.002186	11	0.117865		
				BIAS CORR		0.191347		
	VAR COEFF		0.011795		0.058326			
	EFFICIENCY		99.99		99.96			
11	11	9	1	0.873221	2	0.132975		
			2	0.043211	4	0.111105		
			3	0.024647	5	0.081546		
			4	0.016328	6	0.085828		
			5	0.011738	7	0.090013		
			6	0.012069	8	0.094396		
			8	0.011087	9	0.099227		
			10	0.004714	10	0.105207		
			11	0.002185	11	0.117935		
				BIAS CORR		0.191120		
				VAR COEFF		0.011796		0.058361

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				99.99		99.90
				EFFICIENCY		
11	11	8	1	0.873303	2	0.133081
			2	0.043212	4	0.155759
			3	0.024654	6	0.122353
			4	0.016317	7	0.090063
			5	0.016723	8	0.094506
			7	0.014023	9	0.099319
			9	0.008849	10	0.105314
			11	0.002920	11	0.118055
				BIAS CORR		
				0.190693		
				VAR COEFF		0.058421
				0.011797		
				EFFICIENCY		99.80
				99.98		
11	11	7	1	0.873446	3	0.175693
			2	0.043222	5	0.165589
			3	0.024647	7	0.127376
			4	0.022740	8	0.094609
			6	0.018106	9	0.099529
			8	0.011080	10	0.105507
			10	0.006759	11	0.118281
				BIAS CORR		
				0.189325		
				VAR COEFF		0.058533
				0.011799		
				EFFICIENCY		99.61
				99.96		
11	11	6	1	0.873668	3	0.176279
			2	0.043223	5	0.166130
			3	0.033334	7	0.145768
			5	0.024218	9	0.135990
			7	0.017425	10	0.105845
			10	0.008134	11	0.118688
				BIAS CORR		
				0.188689		
				VAR COEFF		0.058738
				0.011802		
				EFFICIENCY		99.26
				99.94		
11	11	5	1	0.874059	4	0.269688
			2	0.055945	7	0.220443
			4	0.040148	9	0.136763
			7	0.021713	10	0.106461
			10	0.008135	11	0.119383
				BIAS CORR		
				0.188286		

**TABLE II**  
**COEFFICIENTS FOR ESTIMATION OF**  
**LOCATION AND SCALE PARAMETERS OF A**  
**WEIBULL POPULATION FROM L-ORDER STATISTICS**  
**(SAMPLE SIZES 11 TO 13)**

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				0.011807		0.059084
				99.89		98.68
11	11	4	1	0.874845	5	0.318860
			2	0.055984	8	0.234635
			4	0.045517	10	0.141144
			8	0.023653	11	0.120759
				BIAS CORR		
				0.183410		
				VAR COEFF		0.059781
				0.011818		97.53
				EFFICIENCY		
				99.80		
11	11	3	1	0.897528	6	0.373148
			3	0.068583	9	0.257766
			7	0.033888	11	0.148588
				BIAS CORR		
				0.180181		
				VAR COEFF		0.061397
				0.011837		94.96
				EFFICIENCY		
				99.64		
11	11	2	1	0.929385	8	0.502503
			5	0.070615	11	0.179915
				BIAS CORR		
				0.171436		
				VAR COEFF		0.066267
				0.011893		87.98
				EFFICIENCY		
				99.17		
11	11	1	1	1.000000	9	0.722856
				BIAS CORR		
				0.136777		
				VAR COEFF		0.084870
				0.012123		68.70
				EFFICIENCY		
				97.28		
11	10	10	1	0.873250	1	0.063948
			2	0.043212	2	0.072706
			3	0.024651	3	0.079216
			4	0.016325	4	0.084691
			5	0.011745	5	0.089589
			6	0.008858	6	0.094246
			7	0.006891	7	0.098800
			8	0.005482	8	0.103585
			9	0.004284	9	0.108672
			10	0.003352	10	0.236961
				BIAS CORR		
				0.189879		
				VAR COEFF		0.064137
				0.011796		

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				99.98		90.9)
				EFFICIENCY		
				EFF(M/N)		
11	10	9	1	0.873299	2	0.105374
			2	0.043214	3	0.079223
			3	0.024653	4	0.084717
			4	0.016324	5	0.089619
			5	0.011748	6	0.094284
			6	0.008854	7	0.098839
			7	0.010209	8	0.103628
			9	0.006350	9	0.108717
			10	0.005350	10	0.237061
				BIAS CORR		
				VAR COEFF		0.064164
				EFFICIENCY		99.96
11	10	8	1	0.873356	2	0.146247
			2	0.043218	4	0.122182
			3	0.024650	5	0.089649
			4	0.016330	6	0.094352
			5	0.011738	7	0.098891
			6	0.012868	8	0.103699
			8	0.011081	9	0.108785
			10	0.006759	10	0.237217
				BIAS CORR		
				VAR COEFF		0.064206
				EFFICIENCY		99.89
11	10	7	1	0.873446	2	0.146378
			2	0.043222	4	0.171292
			3	0.024647	6	0.134520
			4	0.022740	7	0.098956
			6	0.018106	8	0.103829
			8	0.011080	9	0.108897
			10	0.006759	10	0.237483
				BIAS CORR		
				VAR COEFF		0.064279
				EFFICIENCY		99.78
11	10	6	1	0.873668	3	0.193275
			2	0.043223	5	0.182107

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
			3	0.033334	7	0.140006
			5	0.024218	8	0.103963
			7	0.017425	9	0.109148
			10	0.008134	10	0.237973
			BIAS CORR	0.188689		
			VAR COEFF	0.011802		0.064414
			EFFICIENCY	99.95		99.57
11	10	5	1	0.874059	3	0.193986
			2	0.055945	5	0.182763
			4	0.040148	7	0.204240
			7	0.021713	9	0.149263
			10	0.008135	10	0.238845
			BIAS CORR	0.188286		
			VAR COEFF	0.011807		0.064662
			EFFICIENCY	99.91		99.19
11	10	4	1	0.874845	4	0.296911
			2	0.055984	7	0.242527
			4	0.045517	9	0.150201
			8	0.023653	10	0.240381
			BIAS CORR	0.183410		
			VAR COEFF	0.011818		0.065081
			EFFICIENCY	99.82		98.55
11	10	3	1	0.897528	5	0.351389
			3	0.068583	8	0.258239
			7	0.033888	10	0.280195
			BIAS CORR	0.180181		
			VAR COEFF	0.011837		0.065924
			EFFICIENCY	99.65		97.29
11	10	2	1	0.929385	6	0.508279
			5	0.070615	10	0.349766
			BIAS CORR	0.171436		
			VAR COEFF	0.011893		0.068741
			EFFICIENCY	99.19		93.30
11	10	1	1	1.000000	9	0.722856
			BIAS CORR	0.135777		
			VAR COEFF	0.012123		0.084870



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	97.30	75.57
11	9	9	1	0.873492	1	0.071029
			2	0.043223	2	0.080737
			3	0.024657	3	0.087988
			4	0.016327	4	0.093985
			5	0.011747	5	0.099484
			6	0.008856	6	0.104495
			7	0.006890	7	0.109685
			8	0.005423	8	0.114594
			9	0.009385	9	0.371623
				BIAS CORR	0.187670	
				VAR COEFF	0.011799	0.071273
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.96	81.80
11	9	8	1	0.873541	2	0.117029
			2	0.043225	3	0.088000
			3	0.024659	4	0.094019
			4	0.016326	5	0.099522
			5	0.011750	6	0.104541
			6	0.008851	7	0.109733
			7	0.010203	8	0.114647
			9	0.011446	9	0.371796
				BIAS CORR	0.187482	
				VAR COEFF	0.011800	0.071306
				EFFICIENCY	99.99	99.95
11	9	7	1	0.873606	2	0.162441
			2	0.043226	4	0.135645
			3	0.024662	5	0.099563
			4	0.016321	6	0.104625
			5	0.016724	7	0.109798
			7	0.014017	8	0.114734
			9	0.011445	9	0.372063
				BIAS CORR	0.187349	
				VAR COEFF	0.011801	0.071359
				EFFICIENCY	99.99	99.88
11	9	6	1	0.873753	2	0.162607
			2	0.043227	4	0.190209

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
			3	0.033338	6	0.149253
			5	0.024220	7	0.109884
			7	0.014017	8	0.114892
			9	0.011446	9	0.372515
				BIAS CORR		
				VAR COEFF		0.071448
				EFFICIENCY		99.97
11	9	5	1	0.874080	3	0.214721
			2	0.055950	5	0.202198
			4	0.034384	7	0.155445
			6	0.022016	8	0.115066
			9	0.013569	9	0.373398
				BIAS CORR		
				VAR COEFF		0.071615
				EFFICIENCY		99.93
11	9	4	1	0.874845	3	0.215595
			2	0.055984	5	0.203006
			4	0.045517	7	0.226629
			8	0.023653	9	0.418887
				BIAS CORR		
				VAR COEFF		0.071918
				EFFICIENCY		99.10
11	9	3	1	0.697528	4	0.330120
			3	0.068583	7	0.269348
			7	0.033888	9	0.421857
				BIAS CORR		
				VAR COEFF		0.072436
				EFFICIENCY		98.39
11	9	2	1	0.929385	6	0.450503
			5	0.070615	9	0.471320
				BIAS CORR		
				VAR COEFF		0.074278
				EFFICIENCY		95.95
11	9	1	1	1.000000	9	0.722856
				BIAS CORR		
				VAR COEFF		0.084870

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				97.33		83.98
			EFFICIENCY			
11	8	8	1	0.873865	1	0.079849
			2	0.043240	2	0.090789
			3	0.024663	3	0.098809
			4	0.016333	4	0.105709
			5	0.011744	5	0.111563
			6	0.008859	6	0.117558
			7	0.006877	7	0.122701
			8	0.014419	8	0.529501
			BIAS CORR	0.184938		
			VAR COEFF	0.011804		0.080198
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.91		72.70
11	8	7	1	0.873917	2	0.131595
			2	0.043243	3	0.098828
			3	0.024662	4	0.105753
			4	0.016337	5	0.111612
			5	0.011738	6	0.117617
			6	0.012862	7	0.122762
			8	0.017241	8	0.529777
			BIAS CORR	0.184789		
			VAR COEFF	0.011805		0.080241
			EFFICIENCY	99.99		99.95
11	8	6	1	0.874008	2	0.182611
			2	0.043247	4	0.152515
			3	0.024659	5	0.111668
			4	0.022746	6	0.117722
			6	0.018100	7	0.122846
			8	0.017240	8	0.530210
			BIAS CORR	0.184661		
			VAR COEFF	0.011806		0.080307
			EFFICIENCY	99.98		99.87
11	8	5	1	0.874248	2	0.182825
			2	0.043250	4	0.213744
			3	0.033348	6	0.167801
			5	0.028883	7	0.122960
			8	0.020272	8	0.530955

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.184238	
				VAR COEFF	0.011809	0.080419
				EFFICIENCY	99.96	99.73
11	8	4	1	0.874845	3	0.241468
			2	0.055984	5	0.227238
			4	0.045517	7	0.174282
			8	0.023853	8	0.532262
				BIAS CORR	0.183410	
				VAR COEFF	0.011818	0.080631
				EFFICIENCY	99.89	99.46
11	8	3	1	0.897528	3	0.305030
			3	0.068583	6	0.286984
			7	0.033888	8	0.585674
				BIAS CORR	0.180181	
				VAR COEFF	0.011837	0.081019
				EFFICIENCY	99.72	98.99
11	8	2	1	0.929385	5	0.437009
			5	0.070615	8	0.639875
				BIAS CORR	0.171436	
				VAR COEFF	0.011893	0.082228
				EFFICIENCY	99.26	97.53
11	8	1	1	1.000000	8	0.881685
				BIAS CORR	0.136777	
				VAR COEFF	0.012123	0.089277
				EFFICIENCY	97.37	89.83
11	7	7	1	0.874414	1	0.091180
			2	0.043262	2	0.103555
			3	0.024677	3	0.112886
			4	0.016331	4	0.120320
			5	0.011752	5	0.127569
			6	0.008842	6	0.133431
			7	0.020722	7	0.720945
				BIAS CORR	0.181642	
				VAR COEFF	0.011812	0.091681
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.85	63.59

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE			
11	7	6	1	0.874479	2	0.150161			
			2	0.043263	3	0.112917			
			3	0.024680	4	0.120378			
			4	0.016326	5	0.127634			
			5	0.016721	6	0.133508			
			7	0.024531	7	0.721371			
			BIAS CORR	0.181510					
			VAR COEFF	0.011813		0.091736			
			EFFICIENCY	99.99		99.94			
			11	7	5	1	0.874626	2	0.208475
2	0.043264	4				0.173827			
3	0.033359	5				0.127713			
5	0.024220	6				0.133643			
7	0.024531	7				0.722026			
BIAS CORR	0.181379								
VAR COEFF	0.011815					0.091822			
EFFICIENCY	99.98					99.85			
11	7	4				1	0.875017	2	0.208761
						2	0.055998	4	0.243902
			4	0.040164	6	0.190955			
			7	0.028821	7	0.723119			
			BIAS CORR	0.180976					
			VAR COEFF	0.011820		0.091969			
			EFFICIENCY	99.93		99.69			
			11	7	3	1	0.897528	3	0.275704
						3	0.068583	5	0.259211
						7	0.033888	7	0.783089
BIAS CORR	0.180181								
VAR COEFF	0.011837					0.092242			
EFFICIENCY	99.78					99.59			
11	7	2				1	0.920385	4	0.422661
						5	0.070615	7	0.842792
						BIAS CORR	0.171436		
						VAR COEFF	0.011893		0.093090
			EFFICIENCY	99.32		98.49			
			11	7	1	1	1.000000	7	1.066549

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.136777		
				0.012123		0.098005
				97.43		93.55
11	6	6	1	0.875211	1	0.106169
			2	0.043297	2	0.120667
			3	0.024684	3	0.131142
			4	0.016345	4	0.140380
			5	0.011734	5	0.147704
			6	0.028729	6	0.962144
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.177691		
				0.011823		0.107001
				100.00		100.00
				EFF(M/N)		54.49
				99.76		
11	6	5	1	0.875301	2	0.174953
			2	0.043301	3	0.131190
			3	0.024681	4	0.140462
			4	0.022752	5	0.147795
			6	0.033964	6	0.962804
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.177563		
				0.011824		0.107076
				99.99		99.93
11	6	4	1	0.875595	2	0.242740
			2	0.056029	4	0.202589
			4	0.034406	5	0.147907
			6	0.033969	6	0.963835
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.177420		
				0.011828		0.107192
				99.95		99.82
11	6	3	1	0.897825	2	0.243131
			3	0.061961	4	0.283815
			6	0.040214	6	1.031682
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.177034		
				0.011841		0.107390
				99.84		99.64
11	6	2	1	0.929385	3	0.404795
			3	0.070615	6	1.098674

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		0.108036
				EFFICIENCY		99.04
11	6	1	1	1.000000	6	1.294643
				BIAS CORR		
				VAR COEFF		0.111466
				EFFICIENCY		95.99
11	5	5	1	0.876384	1	0.127099
			2	0.043339	2	0.144203
			3	0.024709	3	0.157114
			4	0.016332	4	0.167155
			5	0.039285	5	1.281071
				BIAS CORR		
				VAR COEFF		0.128469
				EFFICIENCY		100.00
				EFF(M/N)		43.38
11	5	4	1	0.876531	2	0.209218
			2	0.043340	3	0.157197
			3	0.033392	4	0.167274
			5	0.046738	5	1.282110
				BIAS CORR		
				VAR COEFF		0.128576
				EFFICIENCY		99.92
11	5	3	1	0.877251	2	0.290904
			2	0.066334	4	0.241769
			3	0.036414	5	1.283701
				BIAS CORR		
				VAR COEFF		0.128743
				EFFICIENCY		99.79
11	5	2	1	0.929385	3	0.383477
			2	0.070619	5	1.364921
				BIAS CORR		
				VAR COEFF		0.129163
				EFFICIENCY		99.46
11	5	1	1	1.000000	5	1.593413

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.136777		
				0.012123		0.131592
				97.65		97.63
11	4	4	1	0.878156	1	0.158138
			2	0.043407	2	0.179538
			3	0.024718	3	0.194836
			4	0.053719	4	1.731688
				BIAS CORR		
				0.167131		
				VAR COEFF		
				0.011863		0.160710
				EFFICIENCY		100.00
				100.00		100.00
				EFF(M/N)		36.28
11	4	3	1	0.878451	2	0.260483
			2	0.056154	3	0.194972
			4	0.065396	4	1.733418
				BIAS CORR		
				0.166987		
				VAR COEFF		
				0.011867		0.160876
				EFFICIENCY		99.90
11	4	2	1	0.917255	2	0.361411
			4	0.082745	4	1.828251
				BIAS CORR		
				0.166532		
				VAR COEFF		
				0.011894		0.161132
				EFFICIENCY		94.74
11	4	1	1	1.000000	4	2.014635
				BIAS CORR		
				0.136777		
				VAR COEFF		
				0.012123		0.162816
				EFFICIENCY		98.71
11	3	3	1	0.880998	1	0.209373
			2	0.043490	2	0.217131
			3	0.075513	3	2.433309
				BIAS CORR		
				0.159871		
				VAR COEFF		
				0.011402		0.214538
				EFFICIENCY		100.00
				100.00		100.00
				EFF(M/N)		27.18
11	3	2	1	0.903237	2	0.344412
			3	0.096763	3	2.438433



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.159726	
				VAR COEFF	0.011914	0.214829
				EFFICIENCY	99.90	99.86
11	3	1	1	1.000000	3	2.674222
				BIAS CORR	0.136777	
				VAR COEFF	0.012123	0.215842
				EFFICIENCY	98.17	99.40
11	2	2	1	0.886033	1	0.309651
			2	0.113967	2	3.741047
				BIAS CORR	0.150363	
				VAR COEFF	0.011971	0.322495
				EFFICIENCY	100.00	100.00
				EFF(M/N)	98.52	18.08
11	2	1	1	1.000000	2	3.906500
				BIAS CORR	0.136777	
				VAR COEFF	0.012123	0.323132
				EFFICIENCY	98.74	99.80
11	1	1	1	1.000000	1	7.311147
				BIAS CORR	0.136777	
				VAR COEFF	0.012123	0.648028
				EFFICIENCY	100.00	100.00
				EFF(M/N)	97.28	9.00
12	12	12	1	0.871426	1	0.052428
			2	0.042666	2	0.059537
			3	0.024324	3	0.064797
			4	0.016118	4	0.069179
			5	0.011680	5	0.073083
			6	0.008801	6	0.076729
			7	0.006906	7	0.080269
			8	0.005501	8	0.083843
			9	0.004499	9	0.087610
			10	0.003994	10	0.091834
			11	0.002776	11	0.097110
			12	0.001762	12	0.108514
				BIAS CORR	0.181316	
				VAR COEFF	0.010283	0.093437

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				EFFICIENCY		100.00
				EFF(M/N)		100.00
12	12	11	1	0.071463	2	0.086517
			2	0.042668	3	0.064796
			3	0.024322	4	0.069193
			4	0.016122	5	0.073098
			5	0.011626	6	0.076751
			6	0.008806	7	0.080289
			7	0.006901	8	0.083868
			8	0.005219	9	0.087635
			10	0.005287	10	0.091861
			11	0.002775	11	0.097139
			12	0.001862	12	0.108551
				BIAS CORR		
				VAR COEFF		0.053452
				EFFICIENCY		99.97
12	12	10	1	0.071506	2	0.219590
			2	0.042667	4	0.100191
			3	0.024330	5	0.073103
			4	0.016112	6	0.076800
			5	0.011639	7	0.080302
			6	0.008791	8	0.083918
			7	0.010122	9	0.087663
			9	0.009031	10	0.091904
			11	0.003942	11	0.097181
			12	0.001861	12	0.108599
				BIAS CORR		
				VAR COEFF		0.053476
				EFFICIENCY		99.99
12	12	9	1	0.071562	2	0.119652
			2	0.042667	4	0.139543
			3	0.024333	6	0.210212
			4	0.016103	7	0.080303
			5	0.016473	8	0.084013
			7	0.014023	9	0.087700
			9	0.009031	10	0.091977
			11	0.003942	11	0.097246
			12	0.001861	12	0.108676

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		0.053514
				EFFICIENCY		99.86
12	12	8	1	0.871644	2	0.119792
			2	0.042679	4	0.139710
			3	0.024316	6	0.155742
			4	0.022373	8	0.118644
			6	0.017999	9	0.087762
			8	0.011178	10	0.092111
			10	0.007336	11	0.097367
			12	0.007476	12	0.108817
				BIAS CORR		
				VAR COEFF		0.053584
				EFFICIENCY		99.72
12	12	7	1	0.871807	3	0.158411
			2	0.042673	5	0.148152
			3	0.032793	7	0.164015
			5	0.023991	9	0.122508
			7	0.014023	10	0.092206
			9	0.009026	11	0.097576
			11	0.005686	12	0.109031
				BIAS CORR		
				VAR COEFF		0.053691
				EFFICIENCY		99.53
12	12	6	1	0.872027	3	0.198795
			2	0.042687	6	0.187536
			3	0.032794	8	0.173316
			5	0.028467	10	0.126095
			8	0.017216	11	0.097883
			11	0.006809	12	0.109422
				BIAS CORR		
				VAR COEFF		0.053885
				EFFICIENCY		99.17
12	12	5	1	0.872428	4	0.242137
			2	0.055118	7	0.197146
			4	0.039561	9	0.185232
			7	0.021647	11	0.129146

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
			10	0.011246	12	0.110135
			BIAS CORR	0.177009		
			VAR COEFF	0.010265		0.054249
			EFFICIENCY	99.88		98.50
12	12	4	1	0.873285	5	0.342466
			2	0.065072	9	0.246581
			5	0.042481	11	0.130832
			9	0.019162	12	0.111597
			BIAS CORR	0.174278		
			VAR COEFF	0.010276		0.054976
			EFFICIENCY	99.78		97.20
12	12	3	1	0.895587	6	0.400112
			3	0.067470	10	0.265653
			7	0.036943	12	0.137191
			BIAS CORR	0.168761		
			VAR COEFF	0.010293		0.056413
			EFFICIENCY	99.62		94.72
12	12	2	1	0.926663	8	0.553176
			5	0.073337	12	0.181628
			BIAS CORR	0.160364		
			VAR COEFF	0.010342		0.061227
			EFFICIENCY	99.15		87.28
12	12	1	1	1.000000	10	0.692061
			BIAS CORR	0.127580		
			VAR COEFF	0.010548		0.077961
			EFFICIENCY	97.21		68.54
12	11	11	1	0.871538	1	0.057185
			2	0.042671	2	0.064935
			3	0.024327	3	0.070674
			4	0.016120	4	0.075433
			5	0.011631	5	0.079710
			6	0.008801	6	0.083640
			7	0.006906	7	0.087514
			8	0.005500	8	0.091341
			9	0.004433	9	0.095457
			10	0.003590	10	0.099850

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
			11	0.004523	11	0.217005
			BIAS CORR	0.179908		
			VAR COEFF	0.010255		0.058296
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.99		91.66
12	11	10	1	0.871574	2	0.094365
			2	0.042673	3	0.070675
			3	0.024325	4	0.075450
			4	0.016124	5	0.079729
			5	0.011627	6	0.083666
			6	0.008806	7	0.087538
			7	0.006901	8	0.091371
			8	0.008217	9	0.095487
			10	0.005231	10	0.099882
			11	0.004522	11	0.217074
			BIAS CORR	0.179756		
			VAR COEFF	0.010255		0.058315
			EFFICIENCY	100.00		99.97
12	11	9	1	0.871617	2	0.130444
			2	0.042672	4	0.109265
			3	0.024333	5	0.079738
			4	0.016113	6	0.083723
			5	0.011640	7	0.087556
			6	0.008792	8	0.091430
			7	0.010121	9	0.095522
			9	0.009026	10	0.099932
			11	0.005686	11	0.217177
			BIAS CORR	0.179562		
			VAR COEFF	0.010256		0.058343
			EFFICIENCY	99.99		99.92
12	11	8	1	0.871673	2	0.130520
			2	0.042672	4	0.152198
			3	0.024338	6	0.120175
			4	0.016107	7	0.087563
			5	0.016476	8	0.091539
			7	0.014022	9	0.095567
			9	0.009026	10	0.100018
			11	0.005686	11	0.217342

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.179466		
				0.010256		0.058388
				99.98		99.84
12	11	7	1	0.871807	2	0.130688
			2	0.042673	4	0.252398
			3	0.032793	6	0.169841
			5	0.023991	8	0.129316
			7	0.014023	9	0.095647
			9	0.009026	10	0.100176
			11	0.005886	11	0.217644
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.179365		
				0.010258		0.058472
				99.97		99.70
12	11	6	1	0.872027	3	0.172840
			2	0.042687	5	0.161620
			3	0.032794	7	0.178848
			5	0.028467	9	0.133533
			8	0.017216	10	0.100296
			11	0.006809	11	0.218129
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.178646		
				0.010261		0.058599
				99.94		99.48
12	11	5	1	0.872428	3	0.216973
			2	0.055118	6	0.204624
			4	0.039561	8	0.188995
			7	0.021647	10	0.137280
			10	0.011246	11	0.218936
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.177009		
				0.010265		0.058830
				99.90		99.09
12	11	4	1	0.873285	4	0.264408
			2	0.065072	7	0.215185
			5	0.042481	9	0.201945
			9	0.019162	11	0.253832
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.174278		
				0.010276		0.059261
				99.80		98.37

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE	
12	11	3	1	0.895587	5	0.374358	
			3	0.067470	9	0.269228	
			7	0.036943	11	0.257484	
				BIAS CORR	0.168761		
				VAR COEFF	0.010293		0.060128
				EFFICIENCY	99.63		96.95
		12	11	2	1	0.926663	7
5	0.073337				11	0.321730	
				BIAS CORR	0.160364		
				VAR COEFF	0.010342		0.062753
				EFFICIENCY	99.16		92.90
12	11	1	1	1.000000	10	0.692061	
				0.127580			
				0.010548		0.077961	
				97.22		74.78	
12	10	10	1	0.871733	1	0.062883	
			2	0.042680	2	0.071416	
			3	0.024331	3	0.077667	
			4	0.016124	4	0.083009	
			5	0.011630	5	0.087509	
			6	0.008803	6	0.092015	
			7	0.006903	7	0.096028	
			8	0.005500	8	0.100449	
			9	0.004425	9	0.104538	
			10	0.007870	10	0.337762	
			BIAS CORR	0.178051			
			VAR COEFF	0.010257		0.064133	
			EFFICIENCY	100.00		100.00	
			EFF(M/N)	99.96		83.32	
12	10	9	1	0.871770	2	0.103783	
			2	0.042683	3	0.077670	
			3	0.024329	4	0.083030	
			4	0.016128	5	0.087532	
			5	0.011626	6	0.092047	
			6	0.008808	7	0.096058	
			7	0.006898	8	0.100485	

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
			8	0.008213	9	0.104574
			10	0.009547	10	0.337880
			BIAS CORR	0.177900		
			VAR COEFF	0.010257		0.064155
			EFFICIENCY	100.00		99.96
12	10	8	1	0.871813	2	0.143440
			2	0.042686	4	0.120198
			3	0.024326	5	0.087546
			4	0.016134	6	0.092113
			5	0.011618	7	0.096081
			6	0.012705	8	0.100554
			8	0.011172	9	0.104617
			10	0.009546	10	0.338061
			BIAS CORR	0.177796		
			VAR COEFF	0.010258		0.064189
			EFFICIENCY	99.99		99.91
12	10	7	1	0.871892	2	0.143533
			2	0.042690	4	0.167348
			3	0.024322	6	0.132145
			4	0.022377	7	0.096096
			6	0.018000	8	0.100681
			8	0.011172	9	0.104675
			10	0.009546	10	0.338352
			BIAS CORR	0.177700		
			VAR COEFF	0.010259		0.064244
			EFFICIENCY	99.98		99.83
12	10	6	1	0.872073	2	0.143738
			2	0.042586	4	0.167591
			3	0.032800	6	0.186677
			5	0.023993	8	0.142160
			7	0.017206	9	0.104776
			10	0.011842	10	0.338890
			BIAS CORR	0.177308		
			VAR COEFF	0.010261		0.064345
			EFFICIENCY	99.96		99.67
12	10	5	1	0.872428	3	0.190150
			2	0.055128	5	0.177722



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
			4	0.039561	7	0.196584
			7	0.021647	9	0.146484
			10	0.011246	10	0.339610
			BIAS CORR	0.177009		
			VAR COEFF	0.010265		0.064499
			EFFICIENCY	99.92		99.43
12	10	4	1	0.873285	3	0.238745
			2	0.065072	6	0.225060
			5	0.042481	8	0.207657
			9	0.019162	10	0.381116
			BIAS CORR	0.174278		
			VAR COEFF	0.010276		0.064776
			EFFICIENCY	99.82		99.01
12	10	3	1	0.895587	5	0.340727
			3	0.067470	8	0.247268
			7	0.036963	10	0.384565
			BIAS CORR	0.168761		
			VAR COEFF	0.010293		0.065369
			EFFICIENCY	99.65		98.11
12	10	2	1	0.926663	6	0.475134
			5	0.073337	10	0.461311
			BIAS CORR	0.160364		
			VAR COEFF	0.010342		0.067101
			EFFICIENCY	99.18		95.58
12	10	1	1	1.000000	10	0.692061
			BIAS CORR	0.127580		
			VAR COEFF	0.010548		0.077961
			EFFICIENCY	97.24		82.26
12	9	9	1	0.872029	1	0.069849
			2	0.042692	2	0.079250
			3	0.024341	3	0.086384
			4	0.016122	4	0.091886
			5	0.011638	5	0.097419
			6	0.008746	6	0.101773
			7	0.006908	7	0.106855
			8	0.005487	8	0.110919

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
			9	0.011987	9	0.476623
			BIAS CORR	0.175778		
			VAR COEFF	0.010261		0.071270
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.93		74.98
12	9	8	1	0.872067	2	0.115206
			2	0.042692	3	0.086392
			3	0.024345	4	0.091913
			4	0.016117	5	0.097448
			5	0.011644	6	0.101812
			6	0.008789	7	0.106891
			7	0.010116	8	0.110963
			9	0.014281	9	0.476808
			BIAS CORR	0.175660		
			VAR COEFF	0.010261		0.071298
			EFFICIENCY	100.00		99.96
12	9	7	1	0.872123	2	0.159326
			2	0.042692	4	0.133262
			3	0.024349	5	0.097470
			4	0.016111	6	0.101892
			5	0.016479	7	0.106924
			7	0.014016	8	0.111047
			9	0.014280	9	0.477076
			BIAS CORR	0.175569		
			VAR COEFF	0.010262		0.071340
			EFFICIENCY	99.99		99.90
12	9	6	1	0.872287	2	0.159445
			2	0.042693	4	0.185774
			3	0.022887	6	0.146475
			5	0.023996	7	0.106951
			7	0.014016	8	0.111198
			9	0.014281	9	0.477499
			BIAS CORR	0.175462		
			VAR COEFF	0.010263		0.071407
			EFFICIENCY	99.97		99.81
12	9	5	1	0.872345	2	0.159701
			2	0.059129	4	0.186078

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	LOCATION		SCALE				
			i	i	i	i			
			4	0.034009	6	0.201203			
			6	0.071726	8	0.197989			
			9	0.016897	9	0.478277			
			BIAS CORR		0.179129				
			VAR COEFF		0.010867		0.071992		
			EFFICIENCY		99.46		99.63		
			12	9	4	1	0.073203	3	0.211253
2	0.069077	8				0.197989			
3	0.047491	7				0.218048			
4	0.014167	9				0.529779			
BIAS CORR		0.174178							
VAR COEFF		0.010776					0.071714		
EFFICIENCY		99.89					99.37		
12	9	3	1	0.049981	6	0.221146			
			2	0.061476	7	0.261088			
			3	0.036483	9	0.928098			
			BIAS CORR		0.148781				
			VAR COEFF		0.010792		0.172110		
			EFFICIENCY		99.68		99.07		
			12	9	1	1	0.474663	9	0.488933
2	0.171887	9				0.618666			
BIAS CORR		0.140986							
VAR COEFF		0.010992					0.073244		
EFFICIENCY		97.72					97.10		
12	9	1				1	1.000000	9	0.000217
						BIAS CORR		0.171886	
			VAR COEFF		0.014948		0.000484		
			EFFICIENCY		97.78		88.97		
			12	8	6	1	0.071483	1	0.078480
						2	0.047714	2	0.084711
						3	0.074387	3	0.096744
4	0.016187	4				0.108716			
5	0.011426	5				0.108837			
6	0.008889	6				0.114081			
7	0.004889	7				0.124737			
8	0.017090	8				0.640888			

TABLE 11  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 19)

SHAPE PARAMETER = 1.29

n	m	L	i	LOCATION	i	SCALE	
11	0	1		BIAS CORR	0.173064		
				VAN CUERT	0.010264	0.000196	
				EFFICIENCY	100.00	100.00	
				EFF(M/N)	99.88	66.63	
				1	0.072496	2	0.124677
				2	0.047717	3	0.096794
				3	0.024339	4	0.103741
				4	0.016103	5	0.100075
				5	0.011614	6	0.114931
				6	0.017701	7	0.114774
12	0	1		BIAS CORR	0.172481		
				VAN CUERT	0.010768	0.000731	
				EFFICIENCY	99.99	99.96	
				1	0.072076	2	0.124047
				2	0.047722	3	0.100071
				3	0.024339	4	0.100904
				4	0.017887	5	0.114074
				5	0.017004	6	0.114374
				6	0.019988	7	0.114343
				7	0.019988	8	0.114343
13	0	1		BIAS CORR	0.172000		
				VAN CUERT	0.010767	0.000784	
				EFFICIENCY	99.99	99.89	
				1	0.072782	2	0.123200
				2	0.047722	3	0.100710
				3	0.024010	4	0.104061
				4	0.016470	5	0.114355
				5	0.017370	6	0.114350
				6	0.017360	7	0.114350
				7	0.017360	8	0.114350
14	0	1		BIAS CORR	0.171007		
				VAN CUERT	0.010270	0.000574	
				EFFICIENCY	99.96	99.74	
				1	0.072017	2	0.124077
				2	0.044169	3	0.100910
				3	0.024471	4	0.100400
				4	0.016000	5	0.114000
				5	0.017100	6	0.114000
				6	0.017100	7	0.114000
				7	0.017100	8	0.114000

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

A	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	99.90	99.99
12	0	2	1	0.049987	2	0.297130
			2	0.067476	6	0.279769
			7	0.026993	8	0.697249
				BIAS CORR	0.168761	
				VAN CURFF	0.010793	0.000017
				EFFICIENCY	99.73	99.24
12	0	7	1	0.426663	9	0.474698
			6	0.073337	8	0.792114
				BIAS CORR	0.160964	
				VAN CURFF	0.010947	0.001734
				EFFICIENCY	99.26	90.17
12	0	1	1	1.000000	8	0.499901
				BIAS CORR	0.127986	
				VAN CURFF	0.010988	0.006863
				EFFICIENCY	97.32	97.37
12	7	7	1	0.073089	1	0.004647
			2	0.047734	2	0.101588
			3	0.024388	3	0.110836
			4	0.016124	4	0.117614
			5	0.011448	5	0.129791
			6	0.008788	6	0.130038
			7	0.007371	7	0.134122
				BIAS CORR	0.147883	
				VAN CURFF	0.010773	0.041474
				EFFICIENCY	100.00	100.00
				EFFIM/41	99.01	98.29
12	7	6	1	0.073281	7	0.147748
			2	0.047784	8	0.110888
			3	0.024384	4	0.117461
			4	0.016120	5	0.129757
			5	0.011478	6	0.130193
			7	0.007100	7	0.134144
				BIAS CORR	0.164787	
				VAN CURFF	0.010773	0.041726
				EFFICIENCY	99.99	99.99

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

A	M	L		LOCATION		SCALE			
12	7	5	1	0.873245	2	0.204409			
			2	0.042739	4	0.170740			
			3	0.092037	5	0.125001			
			5	0.023994	6	0.130276			
			7	0.077190	7	0.042234			
			BIAS CORR		0.169686				
			VAN COEFF		0.010275		0.041794		
EFFICIENCY		94.48		94.87					
12	7	4	1	0.873600	2	0.204613			
			2	0.099193	4	0.238195			
			4	0.039987	6	0.187491			
			7	0.031638	7	0.043186			
			BIAS CORR		0.164384				
			VAN COEFF		0.010274		0.041403		
			EFFICIENCY		94.44		94.75		
12	7	3	1	0.849887	3	0.270440			
			3	0.067471	5	0.297337			
			7	0.036443	7	0.403193			
			BIAS CORR		0.168761				
			VAN COEFF		0.010743		0.042114		
			EFFICIENCY		94.80		94.93		
			12	7	2	1	0.852223	5	0.411941
5	0.073387	7				0.462874			
BIAS CORR		0.160384							
VAN COEFF		0.010347					0.042768		
EFFICIENCY		94.33					98.83		
12	7	1				1	1.000000	7	1.186178
						BIAS CORR		0.127880	
			VAN COEFF		0.010848		0.076912		
			EFFICIENCY		97.34		94.77		
			12	6	6	1	0.873401	1	0.104336
						2	0.042775	2	0.118817
						3	0.094367	3	0.128464
4	0.016144	4				0.137541			
5	0.011621	5				0.144740			

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
			6	0.031183	6	1.094687
			BIAS CORR	0.166090		
			VAR COEFF	0.010283		0.107000
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.72		99.94
12	6	5	1	0.073983	2	0.172797
			2	0.042779	3	0.128900
			3	0.024384	4	0.107658
			4	0.022399	5	0.144361
			5	0.036480	6	1.095215
			BIAS CORR	0.169986		
			VAR COEFF	0.010284		0.107067
			EFFICIENCY	99.99		99.94
12	6	4	1	0.074257	2	0.287447
			2	0.099718	3	0.199717
			3	0.136089	4	0.144433
			4	0.036486	5	1.096260
			BIAS CORR	0.148849		
			VAR COEFF	0.010287		0.107188
			EFFICIENCY	99.96		99.86
12	6	3	1	0.096007	2	0.288733
			2	0.041186	3	0.277183
			3	0.047883	4	1.163848
			BIAS CORR	0.163393		
			VAR COEFF	0.010298		0.107303
			EFFICIENCY	99.89		99.72
12	6	2	1	0.026683	3	0.344497
			2	0.073337	4	1.230416
			BIAS CORR	0.160364		
			VAR COEFF	0.010397		0.107810
			EFFICIENCY	99.43		99.79
12	6	1	1	1.000000	6	1.423019
			BIAS CORR	0.177880		
			VAR COEFF	0.010808		0.110907
			EFFICIENCY	97.99		96.83

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 19)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE	
17	9	5	1	0.079180	1	0.124929	
			2	0.042817	2	0.141909	
			3	0.024399	3	0.154119	
			4	0.016199	4	0.163609	
			5	0.041920	5	1.430939	
				BIAS CORR	0.161919		
				VAN COEFF	0.010297		0.128460
	EFFICIENCY	100.00		100.00			
	EFF(M/N)	99.97		41.60			
17	9	4	1	0.079264	2	0.209879	
			2	0.042817	3	0.194174	
			3	0.032864	4	0.163707	
			4	0.044044	5	1.431406	
				BIAS CORR	0.161417		
				VAN COEFF	0.010299		0.128997
				EFFICIENCY	99.98		99.73
17	9	3	1	0.079284	2	0.204739	
			2	0.042727	4	0.237609	
			3	0.098844	5	1.433376	
				BIAS CORR	0.141084		
				VAN COEFF	0.010307		0.128671
				EFFICIENCY	99.91		99.83
17	9	2	1	0.072663	3	0.276244	
			4	0.073257	5	1.513699	
				BIAS CORR	0.140284		
				VAN COEFF	0.010342		0.124010
				EFFICIENCY	99.67		99.96
17	9	1	1	1.000000	5	1.740311	
				BIAS CORR	0.127900		
				VAN COEFF	0.010340		0.120977
				EFFICIENCY	99.65		98.07
17	4	2	1	0.016497	1	0.160307	
			2	0.042404	2	0.176744	
			3	0.024404	3	0.140276	
			4	0.025744	4	1.407337	
				BIAS CORR	0.198071		



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDIN STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF		0.160709
				EFFICIENCY		100.00
				EFF(M/N)		33.25
12	4	3	1	0.877233	2	0.256356
			2	0.055350	3	0.191101
			4	0.067417	4	1.908920
				BIAS CORR		
				0.199914		
				VAR COEFF		0.160847
				EFFICIENCY		99.91
12	4	2	1	0.419107	2	0.354193
			4	0.084843	4	2.002689
				BIAS CORR		
				0.199967		
				VAR COEFF		0.161092
				EFFICIENCY		99.79
12	4	1	1	1.000000	4	2.187003
				BIAS CORR		
				0.177880		
				VAR COEFF		0.162424
				EFFICIENCY		98.44
12	3	3	1	0.874887	1	0.709776
			2	0.047977	2	0.292734
			3	0.077144	3	2.697946
				BIAS CORR		
				0.199191		
				VAR COEFF		0.214937
				EFFICIENCY		100.00
				EFF(M/N)		24.91
12	3	2	1	0.401631	2	0.338887
			3	0.048364	3	2.459800
				BIAS CORR		
				0.144083		
				VAR COEFF		0.214780
				EFFICIENCY		99.89
12	3	1	1	1.000000	3	2.888734
				BIAS CORR		
				0.177880		
				VAR COEFF		0.219613
				EFFICIENCY		99.90

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDBR STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE	
12	2	2	1	0.884953	1	0.304218	
			2	0.115047	2	4.039521	
				BIAS CORR	0.140278		0.322495
				VAR COEFF	0.010419		100.00
				EFFICIENCY	100.00		16.57
		EFF(M/N)	98.49				
12	2	1	1	1.000000	2	4.202634	
				BIAS CORR	0.127980		0.323075
				VAR COEFF	0.010948		99.84
				EFFICIENCY	98.74		
12	1	1	1	1.000000	1	7.838700	
				BIAS CORR	0.127980		0.648028
				VAR COEFF	0.010948		100.00
				EFFICIENCY	100.00		8.29
		EFF(M/N)	97.21				
12	12	12	1	0.869989	1	0.047669	
			2	0.042203	2	0.094071	
			3	0.024043	3	0.098789	
			4	0.019434	4	0.062649	
			5	0.011933	5	0.066147	
			6	0.008730	6	0.064337	
			7	0.006404	7	0.072344	
			8	0.005321	8	0.078417	
			9	0.004617	9	0.078613	
			10	0.003886	10	0.081817	
			11	0.002995	11	0.089998	
			12	0.002168	12	0.090273	
			13	0.001607	13	0.100604	
	BIAS CORR	0.172417		0.044314			
	VAR COEFF	0.009019		100.00			
	EFFICIENCY	100.00		100.00			
	EFF(M/N)	100.00		100.00			
12	12	12	1	0.869989	2	0.076784	
			2	0.042203	3	0.098789	
			3	0.024043	4	0.062704	
			4	0.019434	5	0.066188	
			5	0.011930	6	0.064339	

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
			6	0.008741	7	0.072404
			7	0.006894	8	0.075438
			8	0.008170	9	0.078528
			10	0.005530	10	0.081836
			11	0.002996	11	0.085577
			12	0.002368	12	0.090294
			13	0.001607	13	0.100627
			BIAS CORR	0.172317		
			VAR COEFF	0.009015		0.049331
			EFFICIENCY	100.00		99.98
13	13	11	1	0.870026	2	0.108904
			2	0.042200	4	0.091094
			3	0.024098	5	0.066148
			4	0.015913	6	0.069407
			5	0.011946	7	0.072364
			6	0.008704	8	0.075509
			7	0.010040	9	0.078972
			8	0.007140	10	0.081874
			11	0.004344	11	0.089601
			12	0.002368	12	0.090379
			13	0.001607	13	0.100660
			BIAS CORR	0.172204		
			VAR COEFF	0.009015		0.049347
			EFFICIENCY	99.99		99.94
13	13	10	1	0.870067	2	0.108942
			2	0.042219	4	0.126239
			3	0.024027	6	0.100113
			4	0.015961	7	0.072334
			5	0.011493	8	0.078627
			6	0.012934	9	0.078484
			8	0.011719	10	0.081466
			10	0.007917	11	0.089679
			12	0.003344	12	0.090374
			13	0.001606	13	0.100711
			BIAS CORR	0.172091		
			VAR COEFF	0.009016		0.049372
			EFFICIENCY	99.97		99.84
13	13	9	1	0.870129	2	0.108670

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
			2	0.042200	4	0.126345
			3	0.024067	6	0.140196
			4	0.015904	8	0.107731
			5	0.016264	9	0.078463
			7	0.013987	10	0.087088
			9	0.009139	11	0.085675
			11	0.006107	12	0.090457
			13	0.002129	13	0.100798
			BIAS CORR	0.171761		
			VAR COEFF	0.009016		0.049415
			EFFICIENCY	99.98		99.81
13	13	0	1	0.870226	3	0.142743
			2	0.042273	5	0.123641
			3	0.024025	7	0.147000
			4	0.022063	9	0.111226
			6	0.017880	10	0.081927
			8	0.011213	11	0.089849
			10	0.007909	12	0.090953
			12	0.004897	13	0.100935
			BIAS CORR	0.170768		
			VAR COEFF	0.009018		0.049487
			EFFICIENCY	99.97		99.67
13	13	3	1	0.870384	3	0.174314
			2	0.042211	4	0.149398
			3	0.022334	6	0.194140
			9	0.023777	10	0.114917
			7	0.017027	11	0.089749
			10	0.009482	12	0.090783
			12	0.004898	13	0.101187
			BIAS CORR	0.170380		
			VAR COEFF	0.009014		0.049493
			EFFICIENCY	99.99		99.49
13	13	6	1	0.870639	4	0.217938
			2	0.042281	7	0.177129
			3	0.022334	9	0.162436
			9	0.020110	11	0.117908
			8	0.017306	12	0.091076
			11	0.009490	13	0.101941

TABLE 11  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	k	L	i	LOCATION	j	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
13	13	5	1	0.071013	5	0.256901
			2	0.054416	8	0.105547
			4	0.039048	10	0.173265
			7	0.024606	12	0.120262
			11	0.010916	13	0.102280
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
13	13	4	1	0.071926	6	0.390132
			2	0.064124	10	0.290834
			5	0.049877	12	0.121929
			10	0.018078	13	0.103719
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
13	13	3	1	0.043870	7	0.402271
			3	0.072041	11	0.248227
			8	0.034088	13	0.127989
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
13	13	2	1	0.024397	9	0.941839
			5	0.079603	13	0.169260
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
13	13	1	1	1.000000	11	0.666138
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
17	12	12	1	0.870089	1	0.091129
			2	0.042208	2	0.098964

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 12 TO 13)

SHAPE PARAMETER = 1.25

K	M	L	I	LOCATION	I	SCALE
			3	0.024046	3	0.033668
			4	0.015935	4	0.067920
			5	0.011924	5	0.071606
			6	0.008731	6	0.075124
			7	0.006903	7	0.078349
			8	0.005521	8	0.081668
			9	0.004515	9	0.084938
			10	0.003889	10	0.088542
			11	0.002994	11	0.092387
			12	0.002078	12	0.200223
				BIAS CORR	0.171203	
				VAR COEFF	0.009016	0.053430
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.99	92.31
13	12	11	1	0.070086	2	0.085306
			2	0.042212	3	0.063665
			3	0.024039	4	0.067931
			4	0.015947	5	0.071616
			5	0.011911	6	0.075145
			6	0.008747	7	0.078362
				0.006894	8	0.081791
			8	0.005169	9	0.084956
			10	0.003529	10	0.088565
			11	0.002997	11	0.092410
			12	0.002079	12	0.200273
				BIAS CORR	0.171108	
				VAR COEFF	0.009016	0.053430
				EFFICIENCY	100.00	99.98
13	12	10	1	0.070119	2	0.117530
			2	0.042209	4	0.098681
			3	0.024060	5	0.071610
			4	0.015928	6	0.075203
			5	0.011947	7	0.078342
			6	0.008710	8	0.081766
			7	0.010040	9	0.084931
			9	0.009138	10	0.088613
			11	0.004389	11	0.092437
			12	0.003877	12	0.200346
				BIAS CORR	0.170996	

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF EFFICIENCY		0.053463 99.94
13	12	9	1	0.870155	2	0.117575
			2	0.042220	4	0.136730
			3	0.024030	6	0.108449
			4	0.015963	7	0.078246
			5	0.011494	8	0.081902
			6	0.012560	9	0.084914
			8	0.011214	10	0.088712
			10	0.007508	11	0.092468
			12	0.004857	12	0.200460
				BIAS CORR		
				VAR COEFF		0.053493
				EFFICIENCY		99.88
13	12	8	1	0.870226	2	0.117668
			2	0.042225	4	0.136858
			3	0.024025	6	0.151844
			4	0.022063	8	0.116658
			6	0.017880	9	0.084898
			8	0.011215	10	0.088850
			10	0.007509	11	0.092528
			12	0.004857	12	0.200652
				BIAS CORR		
				VAR COEFF		0.053543
				EFFICIENCY		99.79
13	12	7	1	0.870384	3	0.155736
			2	0.042211	5	0.144768
			3	0.032336	7	0.159200
			5	0.023772	9	0.120395
			7	0.017037	10	0.088680
			10	0.009482	11	0.092777
			12	0.004858	12	0.200918
				BIAS CORR		
				VAR COEFF		0.053621
				EFFICIENCY		99.64
13	12	6	1	0.870629	3	0.194247
			2	0.042281	6	0.183484

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
			3	0.032334	8	0.166976
			5	0.028110	10	0.123975
			8	0.017206	11	0.092851
			11	0.009490	12	0.201431
			BIAS CORR	0.168793		
			VAR COEFF	0.009022		0.053752
			EFFICIENCY	99.93		99.40
11	12	5	1	0.871023	4	0.236227
			2	0.054416	7	0.191925
			4	0.039048	9	0.175917
			7	0.024606	11	0.127157
			11	0.010916	12	0.202203
			BIAS CORR	0.168214		
			VAR COEFF	0.009026		0.053973
			EFFICIENCY	99.89		98.99
13	12	4	1	0.871926	5	0.278682
			2	0.064124	8	0.201134
			5	0.045872	10	0.187614
			10	0.018078	12	0.234639
			BIAS CORR	0.165698		
			VAR COEFF	0.009035		0.054412
			EFFICIENCY	99.78		98.20
13	12	3	1	0.893870	6	0.380098
			3	0.072041	10	0.250307
			8	0.034088	12	0.238189
			BIAS CORR	0.161190		
			VAR COEFF	0.009051		0.055249
			EFFICIENCY	99.61		96.71
13	12	2	1	0.924397	8	0.494232
			5	0.075603	12	0.298503
			BIAS CORR	0.150758		
			VAR COEFF	0.009095		0.057831
			EFFICIENCY	99.13		92.39
13	12	1	1	1.000000	11	0.666138
			BIAS CORR	0.119667		
			VAR COEFF	0.009280		0.072293



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	97.15	73.91
13	11	11	1	0.870220	1	0.054314
			2	0.042215	2	0.063858
			3	0.024051	3	0.069498
			4	0.015935	4	0.072916
			5	0.011529	5	0.078301
			6	0.008727	6	0.081645
			7	0.006907	7	0.085594
			8	0.005517	8	0.088817
			9	0.004517	9	0.092696
			10	0.003678	10	0.096148
			11	0.006705	11	0.309723
				BIAS CORR		
				VAR COEFF		0.056293
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.97	84.61
13	11	10	1	0.870248	2	0.093023
			2	0.042215	3	0.069497
			3	0.024056	4	0.073930
			4	0.015927	5	0.078314
			5	0.011539	6	0.081670
			6	0.008718	7	0.085610
			7	0.006914	8	0.088845
			8	0.005510	9	0.092718
			9	0.006777	10	0.096175
			11	0.008096	11	0.309807
				BIAS CORR		
				VAR COEFF		0.058309
				EFFICIENCY	100.00	99.97
13	11	9	1	0.870280	2	0.128202
			2	0.042212	4	0.107501
			3	0.024085	5	0.078310
			4	0.015915	6	0.081735
			5	0.011552	7	0.085591
			6	0.008786	8	0.088929
			7	0.010041	9	0.092715
			9	0.009133	10	0.096231
			11	0.008095	11	0.309924

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.169411	
				VAR COEFF	0.009018	0.058332
				EFFICIENCY	99.99	99.93
13	11	8	1	0.870330	2	0.128258
			2	0.042210	4	0.149117
			3	0.024072	6	0.118099
			4	0.015906	7	0.085545
			5	0.016267	8	0.089082
			7	0.013986	9	0.092679
			9	0.009134	10	0.096343
			11	0.008095	11	0.310092
				BIAS CORR	0.169340	
				VAR COEFF	0.009019	0.058367
				EFFICIENCY	99.99	99.87
13	11	7	1	0.870440	2	0.128371
			2	0.042233	4	0.149270
			3	0.024034	6	0.165525
			4	0.022064	8	0.127067
			6	0.017879	9	0.092670
			8	0.013864	10	0.096503
			11	0.009486	11	0.310385
				BIAS CORR	0.169022	
				VAR COEFF	0.009020	0.058427
				EFFICIENCY	99.97	99.77
13	11	6	1	0.870629	3	0.169869
			2	0.042231	5	0.157912
			3	0.032834	7	0.173552
			5	0.028110	9	0.131298
			8	0.017206	10	0.096327
			11	0.009490	11	0.310968
				BIAS CORR	0.168793	
				VAR COEFF	0.009022	0.058519
				EFFICIENCY	99.95	99.61
13	11	5	1	0.871013	3	0.212037
			2	0.054416	6	0.200095
			4	0.039048	8	0.182055
			7	0.024606	10	0.134889

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
			11	0.010916	11	0.311661
			BIAS CORR	0.168214		
			VAR COEFF	0.009026		0.058675
			EFFICIENCY	99.91		99.35
13	11	4	1	0.871926	4	0.257774
			2	0.064124	7	0.209387
			5	0.045872	9	0.191720
			10	0.018078	11	0.349857
			BIAS CORR	0.165698		
			VAR COEFF	0.009035		0.058936
			EFFICIENCY	99.80		98.91
13	11	3	1	0.893870	5	0.360713
			3	0.072041	9	0.260489
			8	0.034088	11	0.253519
			BIAS CORR	0.161130		
			VAR COEFF	0.009051		0.059565
			EFFICIENCY	99.63		97.86
13	11	2	1	0.924397	7	0.471154
			5	0.075603	11	0.424943
			BIAS CORR	0.150758		
			VAR COEFF	0.009095		0.061261
			EFFICIENCY	99.15		95.15
13	11	1	1	1.000000	11	0.666138
			BIAS CORR	0.119667		
			VAR COEFF	0.009280		0.072293
			EFFICIENCY	97.17		80.63
13	10	10	1	0.870459	1	0.061907
			2	0.042227	2	0.070301
			3	0.024051	3	0.076132
			4	0.015949	4	0.081802
			5	0.011516	5	0.085312
			6	0.008741	6	0.090423
			7	0.006895	7	0.093461
			8	0.005524	8	0.098033
			9	0.004504	9	0.101251
			10	0.010183	10	0.433680

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE		
				BIAS CORR	0.167896			
				VAR COEFF	0.009020	0.064130		
				EFFICIENCY	100.00	100.00		
				EFF(M/N)	99.94	76.91		
13	10	9	1	0.870486	2	0.102366		
			2	0.042232	3	0.076132		
			3	0.024044	4	0.081820		
			4	0.015961	5	0.085328		
			5	0.011503	6	0.090452		
			6	0.008753	7	0.093480		
			7	0.006885	8	0.098067		
			8	0.008166	9	0.101278		
			10	0.011970	10	0.433810		
						BIAS CORR	0.167600	
			VAR COEFF	0.009020	0.064149			
			EFFICIENCY	100.00	99.97			
13	10	8	1	0.870522	2	0.140909		
			2	0.042237	4	0.118600		
			3	0.024036	3	0.085327		
			4	0.015972	6	0.090528		
			5	0.011491	7	0.093463		
			6	0.012562	8	0.098163		
			8	0.011208	9	0.101279		
			10	0.011970	10	0.434010		
						BIAS CORR	0.167524	
						VAR COEFF	0.009021	0.064177
			EFFICIENCY	99.99	99.93			
13	10	7	1	0.870594	2	0.140978		
			2	0.042242	4	0.163954		
			3	0.024031	6	0.130156		
			4	0.022071	7	0.093418		
			6	0.017881	8	0.098335		
			8	0.011210	9	0.101244		
			10	0.011970	10	0.434332		
						BIAS CORR	0.167450	
						VAR COEFF	0.009021	0.064219
						EFFICIENCY	99.98	99.86

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE				
13	10	6	1	0.870752	2	0.241115				
			2	0.042229	4	0.164136				
			3	0.032347	6	0.141965				
			5	0.023776	8	0.133029				
			7	0.017032	9	0.131243				
			10	0.013864	10	0.434855				
			BIAS CORR		0.167182					
			VAR COEFF		0.009023		0.064291			
			EFFICIENCY		99.97		99.75			
			13	10	5	1	0.871079	3	0.186899	
2	0.054419	5				0.173520				
4	0.039059	7				0.190760				
7	0.021570	9				0.143915				
10	0.013872	10				0.435375				
BIAS CORR		0.166951								
VAR COEFF		0.009026					0.064406			
EFFICIENCY		99.93					99.57			
13	10	4				1	0.871926	3	0.233130	
						2	0.064124	6	0.220103	
			5	0.045872	8	0.199988				
			10	0.018078	10	0.478338				
			BIAS CORR		0.165698					
			VAR COEFF		0.009035		0.064590			
			EFFICIENCY		99.83		99.29			
			13	10	3	1	0.893870	5	0.332668	
						3	0.072041	8	0.239855	
						8	0.034088	10	0.481767	
BIAS CORR		0.161130								
VAR COEFF		0.009051					0.065061			
EFFICIENCY		99.66					98.57			
13	10	2				1	0.924397	6	0.454923	
						5	0.075603	10	0.562047	
						BIAS CORR		0.150758		
						VAR COEFF		0.009095		0.066256
			EFFICIENCY		99.18		96.79			
			13	10	1	1	1.000000	10	0.795213	

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.119667		
				0.009280		0.073755
				97.20		86.95
13	9	9	1	0.870797	1	0.068797
			2	0.042287	2	0.077811
			3	0.024773	3	0.085208
			4	0.015928	4	0.089596
			5	0.011547	5	0.096079
			6	0.008715	6	0.099074
			7	0.006914	7	0.104674
			8	0.005503	8	0.107818
			9	0.014285	9	0.577459
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.165420		
				0.009023		0.071268
				100.00		100.00
				99.90		69.20
13	9	8	1	0.870829	2	0.113449
			2	0.042234	3	0.085212
			3	0.024082	4	0.089618
			4	0.015915	5	0.096100
			5	0.011560	6	0.099110
			6	0.008703	7	0.104699
			7	0.010038	8	0.107858
			9	0.016637	9	0.577647
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.165338		
				0.009024		0.071292
				100.00		99.97
13	9	7	1	0.870879	2	0.156597
			2	0.042233	4	0.130791
			3	0.024090	5	0.096104
			4	0.015906	6	0.099199
			5	0.016273	7	0.104686
			7	0.013982	8	0.107971
			9	0.016638	9	0.577894
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.165267		
				0.009024		0.071326
				99.99		99.92

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE			
13	9	6	1	0.871002	2	0.156688			
			2	0.042283	4	0.181889			
			3	0.032356	6	0.143844			
			5	0.023785	7	0.104645			
			7	0.013982	8	0.108173			
			9	0.016641	9	0.578254			
			BIAS CORR	0.165188					
			VAR COEFF	0.009026		0.071380			
			EFFICIENCY	99.98		99.84			
			13	9	5	1	0.871264	2	0.156862
2	0.054436	4				0.182117			
4	0.033672	6				0.201905			
6	0.021465	8				0.154674			
9	0.019163	9				0.578896			
BIAS CORR	0.164941								
VAR COEFF	0.009028					0.071470			
EFFICIENCY	99.95					99.72			
13	9	4				1	0.871936	3	0.207497
						2	0.054120	5	0.192797
			5	0.042007	7	0.211606			
			9	0.021937	9	0.626451			
			BIAS CORR	0.164308					
			VAR COEFF	0.009035		0.071602			
			EFFICIENCY	99.87		99.53			
			13	9	3	1	0.893870	4	0.313883
						3	0.072041	7	0.254753
						8	0.034088	9	0.629175
BIAS CORR	0.161130								
VAR COEFF	0.009051					0.071922			
EFFICIENCY	99.70					99.09			
13	9	2				1	0.924397	5	0.440138
						5	0.075603	9	0.718586
						BIAS CORR	0.150758		
						VAR COEFF	0.009095		0.072855
			EFFICIENCY	99.22		97.82			
			13	9	1	1	1.000000	9	0.937702

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.119867		0.078216
				0.009280		91.12
				97.24		
13	8	8	1	0.071262	1	0.077226
			2	0.042268	2	0.087916
			3	0.024058	3	0.094612
			4	0.015970	4	0.102345
			5	0.011509	5	0.106100
			6	0.008749	6	0.112795
			7	0.006883	7	0.116208
			8	0.019301	8	0.748485
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.162755		0.080194
				0.009028		100.00
				100.00		61.50
				99.85		
13	8	7	1	0.071298	2	0.127924
			2	0.042273	3	0.094620
			3	0.024050	4	0.102374
			4	0.015981	5	0.106128
			5	0.011497	6	0.112840
			6	0.012557	7	0.116241
			8	0.022342	8	0.748765
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.162679		0.080224
				0.009029		99.96
				100.00		
13	8	6	1	0.071370	2	0.175845
			2	0.042279	4	0.148101
			3	0.024045	5	0.106137
			4	0.022083	6	0.112946
			6	0.017879	7	0.116232
			3	0.022344	8	0.749194
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.162606		0.080267
				0.009029		99.91
				99.99		
13	8	5	1	0.071559	2	0.175959
			2	0.042277	4	0.204549
			3	0.032359	6	0.162264



TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
			3	0.028114	7	0.116194
			6	0.025692	8	0.749859
			BIAS CORR	0.162775		
			VAR COEFF	0.004031		0.080332
			EFFICIENCY	99.77		99.83
13	8	4	1	0.872040	2	0.176176
			2	0.054469	4	0.204830
			4	0.043971	6	0.226764
			6	0.029921	8	0.802289
			BIAS CORR	0.161918		
VAR COEFF	0.009036		0.080443			
EFFICIENCY	99.91		99.69			
13	8	3	1	0.843870	3	0.290450
			3	0.072041	6	0.273911
			6	0.034088	8	0.804550
			BIAS CORR	0.161130		
			VAR COEFF	0.009091		0.080677
EFFICIENCY	99.79		99.40			
13	8	2	1	0.924397	5	0.414987
			5	0.079603	8	0.859615
			BIAS CORR	0.150758		
			VAR COEFF	0.009095		0.081409
			EFFICIENCY	99.27		98.51
13	8	1	1	1.000000	8	1.102923
			BIAS CORR	0.119667		
			VAR COEFF	0.009280		0.085330
			EFFICIENCY	97.29		93.98
13	7	7	1	0.871908	1	0.088305
			2	0.042281	2	0.099712
			3	0.024100	3	0.109708
			4	0.015436	4	0.114941
			5	0.011980	5	0.122736
			6	0.008712	6	0.127036
			7	0.029913	7	0.457909
			BIAS CORR	0.159643		
			VAR COEFF	0.009035		0.091677

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				EFFICIENCY		EFF(M/N)
				99.78		53.80
13	7	5	1	0.071957	2	0.145468
			2	0.042279	3	0.109223
			3	0.024107	4	0.115031
			4	0.015927	5	0.122775
			5	0.016268	6	0.127094
			7	0.029461	7	0.958306
				BIAS CORR		
				0.159570		
				VAR COEFF		0.091716
				0.009035		
				EFFICIENCY		99.96
13	7	5	1	0.072081	2	0.200801
			2	0.042280	4	0.167828
			3	0.032385	5	0.122796
			5	0.023789	6	0.127225
			7	0.029465	7	0.958852
				BIAS CORR		
				0.159491		
				VAR COEFF		0.091773
				0.009037		
				EFFICIENCY		99.90
13	7	4	1	0.072410	2	0.200958
			2	0.054492	4	0.233164
			4	0.039081	6	0.184307
			7	0.034016	7	0.959674
				BIAS CORR		
				0.159257		
				VAR COEFF		0.091860
				0.009040		
				EFFICIENCY		99.80
13	7	3	1	0.093964	3	0.265843
			3	0.066539	5	0.246579
			7	0.039497	7	1.019275
				BIAS CORR		
				0.158801		
				VAR COEFF		0.092026
				0.009052		
				EFFICIENCY		99.62
13	7	2	1	0.024397	4	0.402449
			5	0.075603	7	1.078934
				BIAS CORR		
				0.150758		
				VAR COEFF		0.092549
				0.009095		

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				99.34		99.06
			EFFICIENCY			
13	7	1	1	1.000000	7	1.301242
			BIAS CORR	0.119667		
			VAR COEFF	0.009280		0.095503
			EFFICIENCY	97.36		95.99
13	6	6	1	0.872798	1	0.102654
			2	0.042331	2	0.116644
			3	0.024091	3	0.125982
			4	0.015976	4	0.135212
			5	0.011517	5	0.141258
			6	0.033288	6	1.223698
			BIAS CORR	0.155990		
			VAR COEFF	0.009044		0.106998
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.67		46.09
13	6	5	1	0.872870	2	0.169847
			2	0.042336	3	0.126007
			3	0.024086	4	0.135268
			4	0.022088	5	0.141312
			6	0.038621	6	1.224294
			BIAS CORR	0.155916		
			VAR COEFF	0.009045		0.107051
			EFFICIENCY	99.99		99.95
13	6	4	1	0.873129	2	0.233705
			2	0.054532	4	0.196197
			4	0.033712	5	0.141349
			6	0.038628	6	1.225167
			BIAS CORR	0.155828		
			VAR COEFF	0.009048		0.107127
			EFFICIENCY	99.96		99.88
13	6	3	1	0.894471	2	0.233918
			3	0.060433	4	0.271443
			6	0.045096	6	1.291965
			BIAS CORR	0.155604		
			VAR COEFF	0.009057		0.107242
			EFFICIENCY	99.86		99.77

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE	
13	6	2	1	0.924397	3	0.385787	
			5	0.075603	6	1.358376	
			BIAS CORR		0.150758		
			VAR COEFF		0.009095	0.107652	
			EFFICIENCY		99.45	99.39	
13	6	1	1	1.000000	6	1.551511	
			BIAS CORR		0.119667		
			VAR COEFF		0.009280	0.109831	
			EFFICIENCY		97.46	97.42	
13	5	5	1	0.874070	1	0.122967	
			2	0.042371	2	0.139057	
			3	0.024131	3	0.151465	
			4	0.015956	4	0.160453	
			5	0.043472	5	1.577206	
			BIAS CORR		0.151666		
			VAR COEFF		0.009058	0.128467	
			EFFICIENCY		100.00	100.00	
			EFF(M/N)		99.53	38.39	
13	5	4	1	0.874195	2	0.202807	
			2	0.042371	3	0.151511	
			3	0.032423	4	0.160535	
			5	0.051011	5	1.578108	
			BIAS CORR		0.151586		
			VAR COEFF		0.009059	0.128543	
			EFFICIENCY		99.99	99.94	
13	5	3	1	0.874824	2	0.279629	
			2	0.064208	4	0.233828	
			5	0.060888	5	1.579386	
			BIAS CORR		0.151320		
			VAR COEFF		0.009066	0.128652	
EFFICIENCY		99.91	99.86				
13	5	2	1	0.924307	3	0.369860	
			5	0.075603	5	1.658775	
			BIAS CORR		0.150758		
			VAR COEFF		0.009095	0.128932	

TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	99.59	99.64
13	5	1	1	1.000000	5	1.883565
				BIAS CORR	0.119667	
				VAR COEFF	0.009280	0.130521
				EFFICIENCY	97.60	98.43
13	4	4	1	0.875943	1	0.152897
			2	0.042448	2	0.173297
			3	0.024141	3	0.187564
			4	0.057468	4	2.079149
				BIAS CORR	0.146453	
				VAR COEFF	0.009077	0.160708
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.31	30.69
13	4	3	1	0.876203	2	0.252598
			2	0.054671	3	0.187646
			4	0.069125	4	2.080615
				BIAS CORR	0.146363	
				VAR COEFF	0.009080	0.160825
				EFFICIENCY	99.97	99.93
13	4	2	1	0.913307	2	0.347810
			4	0.086693	4	2.173332
				BIAS CORR	0.146094	
				VAR COEFF	0.009099	0.160993
				EFFICIENCY	99.76	99.82
13	4	1	1	1.000000	4	2.355666
				BIAS CORR	0.119667	
				VAR COEFF	0.009280	0.162133
				EFFICIENCY	97.82	99.12
13	3	3	1	0.878891	1	0.202432
			2	0.042539	2	0.228786
			3	0.078569	3	2.886269
				BIAS CORR	0.139993	
				VAR COEFF	0.009108	0.214537
				EFFICIENCY	100.00	100.00
				EFF(M/N)	98.98	22.99

**TABLE II**  
**COEFFICIENTS FOR ESTIMATION OF**  
**LOCATION AND SCALE PARAMETERS OF A**  
**WEIBULL POPULATION FROM L-ORDER STATISTICS**  
**(SAMPLE SIZES 11 TO 13)**

SHAPE PARAMETER = 1.25

N	M	L	I	LOCATION	I	SCALE	
13	3	2	1	0.900278	2	0.333855	
			3	0.099722	3	2.868879	
				BIAS CORR	0.139911		
				VAR COEFF	0.009117		0.214742
				EFFICIENCY	99.91		99.90
13	3	1	1	1.000000	3	3.099134	
				BIAS CORR	0.119667		
				VAR COEFF	0.009280		0.215439
				EFFICIENCY	98.15		99.58
13	2	2	1	0.884038	1	0.294313	
			2	0.115962	2	4.332595	
				BIAS CORR	0.131596		
				VAR COEFF	0.009162		0.322494
				EFFICIENCY	100.00		100.00
				EFF(M/N)	98.39		15.29
13	2	1	1	1.000000	2	4.493545	
				BIAS CORR	0.119667		
				VAR COEFF	0.009280		0.322943
				EFFICIENCY	98.73		99.86
13	1	1	1	1.000000	1	8.356531	
				BIAS CORR	0.119667		
				VAR COEFF	0.009280		0.648028
				EFFICIENCY	100.00		100.00
				EFF(M/N)	97.14		7.61

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE		
11	11	11	1	0.731105	1	0.041762		
			2	0.074371	2	0.052621		
			3	0.047131	3	0.061101		
			4	0.034113	4	0.068513		
			5	0.026554	5	0.075423		
			6	0.021523	6	0.082174		
			7	0.017963	7	0.089062		
			8	0.015181	8	0.096427		
			9	0.012907	9	0.204827		
			10	0.010841	10	0.115545		
			11	0.008312	11	0.139465		
	BIAS CORR		0.315770					
	VAR COEFF		0.013845		0.040642			
	EFFICIENCY		100.00		100.00			
	EFF(M/N)		100.00		100.00			
11	11	10	1	0.731286	2	0.075876		
			2	0.074382	3	0.061092		
			3	0.047153	4	0.068525		
			4	0.034100	5	0.075439		
			5	0.026572	6	0.082203		
			6	0.021514	7	0.089088		
			7	0.026945	8	0.096462		
			9	0.018899	9	0.104863		
			10	0.010838	10	0.115586		
			11	0.008312	11	0.139515		
				BIAS CORR		0.315314		
	VAR COEFF		0.013849		0.040657			
	EFFICIENCY		99.98		99.96			
11	11	9	1	0.731491	2	0.105553		
			2	0.074392	4	0.098797		
			3	0.047175	5	0.075451		
			4	0.034091	6	0.082268		
			5	0.038260	7	0.089102		
			7	0.036538	8	0.096537		
			9	0.018902	9	0.104912		
			10	0.010837	10	0.115654		
			11	0.008314	11	0.139596		
				BIAS CORR		0.315036		
				VAR COEFF		0.013853		0.040681

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	99.95	99.91
11	11	8	1	0.731752	2	0.105624
			2	0.074444	4	0.138546
			3	0.047130	6	0.117285
			4	0.048109	7	0.089139
			6	0.043983	8	0.096662
			8	0.031037	9	0.104988
			10	0.015284	10	0.115774
			11	0.008311	11	0.139734
				BIAS CORR	0.314486	
				VAR COEFF	0.013858	0.040722
				EFFICIENCY	99.91	99.81
11	11	7	1	0.732197	3	0.148486
			2	0.074446	5	0.153201
			3	0.064535	7	0.126170
			5	0.054585	8	0.096684
			7	0.036549	9	0.105248
			9	0.026789	10	0.115959
			11	0.010899	11	0.139992
				BIAS CORR	0.313413	
				VAR COEFF	0.013866	0.040797
				EFFICIENCY	99.85	99.62
11	11	6	1	0.733120	3	0.148960
			2	0.097485	5	0.153683
			4	0.071514	7	0.183912
			6	0.054138	9	0.143874
			9	0.032835	10	0.116317
			11	0.010907	11	0.140453
				BIAS CORR	0.312379	
				VAR COEFF	0.013884	0.040936
				EFFICIENCY	99.72	99.28
11	11	5	1	0.734239	4	0.239248
			2	0.097611	7	0.218239
			4	0.084500	9	0.144631
			7	0.056641	10	0.116983
			10	0.027009	11	0.141249
				BIAS CORR	0.307143	



TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF EFFICIENCY		
				0.013906 99.57		0.041170 98.72
11	11	4	1	0.770483	5	0.294286
			3	0.118902	8	0.239774
			6	0.068569	10	0.155200
			9	0.041966	11	0.142812
				BIAS CORR		
				0.301821		
				VAR COEFF		0.041641
				EFFICIENCY		97.60
11	11	3	1	0.775428	6	0.356503
			3	0.133686	9	0.272231
			7	0.090886	11	0.175392
				BIAS CORR		
				0.285112		
				VAR COEFF		0.042729
				EFFICIENCY		95.12
11	11	2	1	0.834498	8	0.511991
			5	0.165502	11	0.211846
				BIAS CORR		
				0.263548		
				VAR COEFF		0.046019
				EFFICIENCY		88.32
11	11	1	1	1.000000	9	0.767480
				BIAS CORR		
				0.182517		
				VAR COEFF		0.058888
				EFFICIENCY		69.02
11	10	10	1	0.731799	1	0.045925
			2	0.074440	2	0.057867
			3	0.047173	3	0.067164
			4	0.030144	4	0.075346
			5	0.020572	5	0.082851
			6	0.021539	6	0.090320
			7	0.017968	7	0.097764
			8	0.015178	8	0.105777
			9	0.012886	9	0.114720
			10	0.018301	10	0.264494
				BIAS CORR		
				0.310638		
				VAR COEFF		0.044712

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		90.90
11	10	9	1	0.731979	2	0.083442
			2	0.074451	3	0.067157
			3	0.047195	4	0.075362
			4	0.034131	5	0.082871
			5	0.026590	6	0.090355
			6	0.021529	7	0.097796
			7	0.026949	8	0.105819
			9	0.018878	9	0.114764
			10	0.018297	10	0.264598
				BIAS CORR		
				VAR COEFF		0.044730
				EFFICIENCY		99.98
11	10	8	1	0.732185	2	0.116073
			2	0.074461	4	0.108646
			3	0.047216	5	0.082889
			4	0.034122	6	0.090432
			5	0.038287	7	0.097817
			7	0.036549	8	0.105908
			9	0.018881	9	0.114825
			10	0.018298	10	0.264768
				BIAS CORR		
				VAR COEFF		0.044759
				EFFICIENCY		99.90
11	10	7	1	0.732446	2	0.116162
			2	0.074513	4	0.152328
			3	0.047171	6	0.128913
			4	0.048149	7	0.097867
			6	0.043961	8	0.106055
			8	0.031024	9	0.114919
			10	0.022736	10	0.265062
				BIAS CORR		
				VAR COEFF		0.044808
				EFFICIENCY		99.91
11	10	6	1	0.733177	3	0.163323
			2	0.074543	5	0.168423

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
			3	0.064611	7	0.138601
			5	0.054629	8	0.106098
			7	0.046063	9	0.115225
			10	0.026977	10	0.265568
			BIAS CORR	0.307844		
			VAR COEFF	0.013885		0.044899
			EFFICIENCY	99.81		99.58
11	10	5	1	0.734239	3	0.163897
			2	0.097611	5	0.169005
			4	0.084500	7	0.202032
			7	0.056641	9	0.157662
			10	0.027009	10	0.266503
			BIAS CORR	0.307143		
			VAR COEFF	0.013906		0.045067
			EFFICIENCY	99.66		99.21
11	10	4	1	0.770483	4	0.263331
			3	0.118982	7	0.239908
			6	0.068569	9	0.158581
			9	0.041966	10	0.268171
			BIAS CORR	0.301821		
			VAR COEFF	0.013957		0.045351
			EFFICIENCY	99.29		98.59
11	10	3	1	0.775428	5	0.324169
			3	0.133686	8	0.263550
			7	0.090886	10	0.311938
			BIAS CORR	0.285112		
			VAR COEFF	0.014048		0.045919
			EFFICIENCY	98.65		97.37
11	10	2	1	0.834498	6	0.485283
			5	0.165502	10	0.388444
			BIAS CORR	0.263548		
			VAR COEFF	0.014286		0.047822
			EFFICIENCY	97.01		93.50
11	10	1	1	1.000000	9	0.767480
			BIAS CORR	0.182517		
			VAR COEFF	0.015357		0.058888

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				90.24		75.93
				EFFICIENCY		
11	9	9	1	0.732933	1	0.051012
			2	0.074550	2	0.064225
			3	0.047247	3	0.074667
			4	0.034177	4	0.083441
			5	0.026616	5	0.097135
			6	0.021545	6	0.093959
			7	0.017978	7	0.108371
			8	0.015161	8	0.116909
			9	0.029794	9	0.398394
				BIAS CORR		
				0.304167		
				VAR COEFF		0.049700
				0.013880		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		81.78
				99.75		
11	9	8	1	0.733113	2	0.092637
			2	0.074561	3	0.074662
			3	0.047269	4	0.083462
			4	0.034164	5	0.092111
			5	0.026634	6	0.100003
			6	0.021536	7	0.108411
			7	0.026948	8	0.116961
			9	0.035776	9	0.390560
				BIAS CORR		
				0.303714		
				VAR COEFF		0.049721
				0.013883		
				EFFICIENCY		99.96
				99.98		
11	9	7	1	0.733319	2	0.128924
			2	0.074571	4	0.120474
			3	0.047290	5	0.092188
			4	0.034155	6	0.100095
			5	0.038335	7	0.108443
			7	0.036551	8	0.117067
			9	0.035779	9	0.398838
				BIAS CORR		
				0.303484		
				VAR COEFF		0.049757
				0.013887		
				EFFICIENCY		99.88
				99.95		
11	9	6	1	0.733713	2	0.129039
			2	0.074596	4	0.169078

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
			3	0.064659	6	0.142410
			5	0.054674	7	0.108512
			7	0.036564	8	0.117249
			9	0.035795	9	0.399292
			BIAS CORR	0.303228		
			VAR COEFF	0.013899		0.049818
			EFFICIENCY	99.89		99.76
11	9	3	1	0.734639	3	0.181394
			2	0.097601	5	0.186949
			4	0.071644	7	0.153636
			6	0.054188	8	0.117316
			9	0.041848	9	0.400232
			BIAS CORR	0.302189		
			VAR COEFF	0.013913		0.049929
			EFFICIENCY	99.76		99.94
11	9	4	1	0.770483	3	0.172079
			3	0.118982	5	0.187665
			6	0.068959	7	0.223757
			9	0.041966	9	0.448283
			BIAS CORR	0.301821		
			VAR COEFF	0.013997		0.050134
			EFFICIENCY	99.48		99.13
11	9	2	1	0.775428	4	0.292644
			3	0.133686	7	0.266118
			7	0.040886	9	0.451330
			BIAS CORR	0.289112		
			VAR COEFF	0.014048		0.050485
			EFFICIENCY	98.81		98.44
11	9	2	1	0.834498	6	0.430113
			5	0.169902	9	0.503329
			BIAS CORR	0.263548		
			VAR COEFF	0.014286		0.051728
			EFFICIENCY	97.16		96.08
11	9	1	1	1.000000	4	0.767480
			BIAS CORR	0.182917		
			VAR COEFF	0.013397		0.058888

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		84.40
				90.38		
11	8	3	1	0.734568	1	0.057320
			2	0.074717	2	0.072299
			3	0.047321	3	0.083568
			4	0.034272	4	0.094192
			5	0.026621	5	0.102890
			6	0.021584	6	0.112379
			7	0.017964	7	0.121169
			8	0.042954	8	0.548490
				BIAS CORR		
				0.296483		
				VAR COEFF		0.055944
				0.013911		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		72.65
				99.53		
11	8	7	1	0.734746	2	0.104231
			2	0.074741	3	0.083567
			3	0.047314	4	0.094221
			4	0.034294	5	0.102925
			5	0.026609	6	0.112434
			6	0.031711	7	0.121221
			8	0.050586	8	0.548759
				BIAS CORR		
				0.296142		
				VAR COEFF		0.055972
				0.013915		
				EFFICIENCY		99.95
				99.98		
11	8	6	1	0.735008	2	0.144857
			2	0.074767	4	0.135659
			3	0.047315	5	0.102963
			4	0.048288	6	0.112547
			6	0.044024	7	0.121266
			8	0.050597	8	0.549206
				BIAS CORR		
				0.295898		
				VAR COEFF		0.056016
				0.013920		
				EFFICIENCY		99.87
				99.94		
11	8	5	1	0.735737	2	0.145006
			2	0.074811	4	0.189970
			3	0.064790	6	0.160389
			5	0.066031	7	0.121359
			8	0.058632	8	0.549955

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.295016		
				0.013934		0.056092
				99.84		99.74
11	8	4	1	0.737450	3	0.203922
			2	0.097996	5	0.209788
			4	0.097102	7	0.172154
			8	0.067451	8	0.551190
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.293407		
				0.013967		0.056235
				99.60		99.48
11	8	3	1	0.775428	3	0.257775
			3	0.133686	6	0.274345
			7	0.090886	8	0.605683
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.285112		
				0.014048		0.056498
				99.03		99.02
11	8	2	1	0.834498	5	0.402639
			5	0.165502	8	0.660763
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.263548		
				0.014286		0.057311
				97.38		97.61
11	8	1	1	1.000000	8	0.905928
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.182517		
				0.015357		0.062072
				90.58		90.13
11	7	7	1	0.736847	1	0.065481
			2	0.074918	2	0.082228
			3	0.047487	3	0.095861
			4	0.034299	4	0.106576
			5	0.026707	5	0.117730
			6	0.021577	6	0.127446
			7	0.058166	7	0.723114
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.287531		
				0.013954		0.063986
				100.00		100.00
				EFF(M/N)		63.52
				99.22		

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE			
11	7	6	1	0.737054	2	0.118713			
			2	0.074927	3	0.095867			
			3	0.047508	4	0.106616			
			4	0.034290	5	0.117778			
			5	0.038430	6	0.127517			
			7	0.067791	7	0.723511			
			BIAS CORR		0.287249				
			VAR COEFF		0.013958		0.064022		
EFFICIENCY		99.97		99.94					
11	7	5	1	0.737451	2	0.165338			
			2	0.074953	4	0.154170			
			3	0.064945	5	0.117835			
			5	0.054834	6	0.127660			
			7	0.067818	7	0.724124			
			BIAS CORR		0.287035				
			VAR COEFF		0.013966		0.064081		
			EFFICIENCY		99.92		99.85		
11	7	4	1	0.738522	2	0.165542			
			2	0.098149	4	0.216368			
			4	0.084869	6	0.182447			
			7	0.078460	7	0.725172			
			BIAS CORR		0.286306				
			VAR COEFF		0.013987		0.064181		
			EFFICIENCY		99.77		99.70		
			11	7	3	1	0.775428	3	0.232733
3	0.133686	5				0.239006			
7	0.090886	7				0.784343			
BIAS CORR		0.285112							
VAR COEFF		0.014048					0.064362		
EFFICIENCY		99.33					99.42		
11	7	2				1	0.834498	4	0.374076
						5	0.165502	7	0.843110
			BIAS CORR		0.263548				
			VAR COEFF		0.014206		0.064934		
			EFFICIENCY		97.68		98.54		
			11	7	1	1	1.000000	7	1.062307



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.182517	
				VAR COEFF	0.015357	0.068245
				EFFICIENCY	90.87	93.76
11	6	6	1	0.739979	1	0.076131
			2	0.075237	2	0.096010
			3	0.047610	3	0.110788
			4	0.034444	4	0.124449
			5	0.026725	5	0.136107
			6	0.076005	6	0.934409
				BIAS CORR	0.277147	
				VAR COEFF	0.014014	0.074731
				EFFICIENCY	100.00	100.00
				EFF(M/N)	98.80	54.38
11	6	5	1	0.740244	2	0.138442
			2	0.075263	3	0.110804
			3	0.047611	4	0.124507
			4	0.048500	5	0.136175
			6	0.088382	6	0.935006
				BIAS CORR	0.276899	
				VAR COEFF	0.014019	0.074780
				EFFICIENCY	99.96	99.93
11	6	4	1	0.740979	2	0.192359
			2	0.098460	4	0.179495
			4	0.072108	5	0.136259
			6	0.088452	6	0.935963
				BIAS CORR	0.276735	
				VAR COEFF	0.014034	0.074858
				EFFICIENCY	99.86	99.83
11	6	3	1	0.777138	2	0.192639
			3	0.119842	4	0.251476
			6	0.103020	6	1.000684
				BIAS CORR	0.276297	
				VAR COEFF	0.014078	0.074992
				EFFICIENCY	99.54	99.65
11	6	2	1	0.834498	3	0.341425
			5	0.115502	6	1.064477

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.263548		
				0.014286		0.075426
				98.10		99.08
11	6	1	1	1.000000	6	1.249677
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.182517		
				0.015357		0.077726
				91.26		96.15
11	5	5	1	0.744364	1	0.091124
			2	0.075616	2	0.114375
			3	0.047860	3	0.132660
			4	0.034536	4	0.147898
			5	0.097623	5	1.202557
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.265058		
				0.014098		0.089812
				100.00		100.00
				EFF(M/N)		45.25
				98.21		
11	5	4	1	0.744767	2	0.165185
			2	0.075642	3	0.132696
			3	0.065422	4	0.147984
			4	0.114169	5	1.203454
			5	0.264834		
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.014105		0.089883
				99.94		99.92
11	5	3	1	0.746632	2	0.229799
			2	0.118296	4	0.213879
			3	0.135072	5	1.204862
			4	0.264230		
			5	0.014142		0.089995
				EFFICIENCY		99.80
				99.69		
11	5	2	1	0.834498	3	0.322717
			2	0.165502	5	1.279412
			3	0.263548		
			4	0.014286		0.09073
			5	EFFICIENCY		99.49
				98.68		
11	5	1	1	1.000000	5	1.487823

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.182517		
				0.015357		0.091895
				91.80		97.73
11	4	4	1	0.750657	1	0.113131
			2	0.076184	2	0.142090
			3	0.048132	3	0.164102
			4	0.125027	4	1.565396
				BIAS CORR		
				0.250804		
				0.014218		0.112514
				100.00		100.00
				97.38		36.12
11	4	3	1	0.751409	2	0.205208
			2	0.099636	3	0.164176
			4	0.148955	4	1.566816
				BIAS CORR		
				0.250617		
				0.014233		0.112622
				99.90		99.90
11	4	2	1	0.816021	2	0.285231
			4	0.183979	4	1.650421
				BIAS CORR		
				0.250421		
				0.014323		0.112794
				99.27		99.75
11	4	1	1	1.000000	4	1.812906
				BIAS CORR		
				0.182517		
				0.015357		0.113907
				92.58		98.78
11	3	3	1	0.760225	1	0.149256
			2	0.076977	2	0.186958
			3	0.162799	3	2.105734
				BIAS CORR		
				0.233606		
				0.014402		0.150546
				100.00		100.00
				96.14		27.00
11	3	2	1	0.796883	2	0.270308
			3	0.203117	3	2.108155

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.233609	
				VAR COEFF	0.014442	0.150734
				EFFICIENCY	99.72	99.88
11	3	1	1	1.000000	3	2.303838
				BIAS CORR	0.182517	
				VAR COEFF	0.015357	0.151307
				EFFICIENCY	93.78	99.44
11	2	2	1	0.776285	1	0.219236
			2	0.223715	2	3.055082
				BIAS CORR	0.211982	
				VAR COEFF	0.014712	0.227245
				EFFICIENCY	100.00	100.00
				EFF(M/N)	94.11	17.88
11	2	1	1	1.000000	2	3.182424
				BIAS CORR	0.182517	
				VAR COEFF	0.015357	0.227651
				EFFICIENCY	95.80	99.82
11	1	1	1	1.000000	1	5.478940
				BIAS CORR	0.182517	
				VAR COEFF	0.015357	0.460999
				EFFICIENCY	100.00	100.00
				EFF(M/N)	90.16	8.82
12	12	12	1	0.727119	1	0.037231
			2	0.073053	2	0.046817
			3	0.046165	3	0.054252
			4	0.033852	4	0.060696
			5	0.025973	5	0.066636
			6	0.021043	6	0.072357
			7	0.017655	7	0.078070
			8	0.014977	8	0.083997
			9	0.012895	9	0.090413
			10	0.011082	10	0.097809
			11	0.009406	11	0.107335
			12	0.007280	12	0.128877
				BIAS CORR	0.305009	
				VAR COEFF	0.012289	0.037239

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		100.00
12	12	11	1	0.727255	2	0.067686
			2	0.073050	3	0.054241
			3	0.046208	4	0.060704
			4	0.033303	5	0.066642
			5	0.026022	6	0.072362
			6	0.021016	7	0.078081
			7	0.026157	8	0.084025
			9	0.019223	9	0.090434
			10	0.011077	10	0.097837
			11	0.009407	11	0.107364
			12	0.007280	12	0.128912
				BIAS CORR		
				VAR COEFF		0.037249
				EFFICIENCY		99.97
12	12	10	1	0.727395	2	0.093780
			2	0.073106	4	0.087872
			3	0.046117	5	0.066632
			4	0.033447	6	0.072460
			5	0.025897	7	0.078032
			6	0.030752	8	0.084129
			8	0.030454	9	0.090428
			10	0.016151	10	0.097893
			11	0.009400	11	0.107406
			12	0.007281	12	0.128968
				BIAS CORR		
				VAR COEFF		0.037265
				EFFICIENCY		99.93
12	12	9	1	0.727597	2	0.093821
			2	0.073061	4	0.122417
			3	0.046264	6	0.103976
			4	0.033262	7	0.077986
			5	0.037240	8	0.084301
			7	0.035784	9	0.090385
			9	0.026312	10	0.098008
			11	0.013201	11	0.107466
			12	0.007278	12	0.129058

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		0.304007
				VAR COEFF		0.012297
				EFFICIENCY		99.93
12	12	8	1	0.727876	2	0.093916
			2	0.073160	4	0.122585
			3	0.046122	6	0.146833
			4	0.046882	8	0.118981
			6	0.042976	9	0.090432
			8	0.030461	10	0.098163
			10	0.023013	11	0.107595
			12	0.009509	12	0.129223
				BIAS CORR		0.303076
				VAR COEFF		0.012302
				EFFICIENCY		99.89
12	12	7	1	0.728453	3	0.132155
			2	0.073140	5	0.135057
			3	0.063018	7	0.159479
			5	0.053383	9	0.126529
			7	0.044475	10	0.098118
			10	0.028018	11	0.107847
			12	0.009514	12	0.129461
				BIAS CORR		0.302175
				VAR COEFF		0.012312
				EFFICIENCY		99.82
12	12	6	1	0.729382	3	0.165940
			2	0.073263	6	0.176865
			3	0.063042	8	0.173545
			5	0.064073	10	0.134384
			8	0.046973	11	0.108144
			11	0.023346	12	0.129914
				BIAS CORR		0.297640
				VAR COEFF		0.012326
				EFFICIENCY		99.70
12	12	5	1	0.730646	4	0.211760
			2	0.095664	7	0.191693
			4	0.082398	9	0.191030
			7	0.064418	11	0.142852

TABLE 11  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
			11	0.026874	12	0.130723
			BIAS CORR	0.295593		
			VAR COEFF	0.012349		0.037790
			EFFICIENCY	99.51		98.54
12	12	4	1	0.765774	5	0.311529
			3	0.116422	9	0.254445
			6	0.076604	11	0.144608
			10	0.041200	12	0.132400
			BIAS CORR	0.291561		
			VAR COEFF	0.012391		0.038282
			EFFICIENCY	99.18		97.28
12	12	3	1	0.770994	6	0.376172
			3	0.142783	10	0.282761
			8	0.086223	12	0.162463
			BIAS CORR	0.276980		
			VAR COEFF	0.012476		0.039250
			EFFICIENCY	98.50		94.88
12	12	2	1	0.829186	8	0.551905
			5	0.170814	12	0.214647
			BIAS CORR	0.249489		
			VAR COEFF	0.012700		0.042505
			EFFICIENCY	96.77		87.61
12	12	1	1	1.000000	10	0.739784
			BIAS CORR	0.172291		
			VAR COEFF	0.013675		0.054067
			EFFICIENCY	89.87		68.88
12	11	11	1	0.727705	1	0.040607
			2	0.073111	2	0.051053
			3	0.046202	3	0.059183
			4	0.033374	4	0.066132
			5	0.025995	5	0.072710
			6	0.021052	6	0.078771
			7	0.017668	7	0.085142
			8	0.014978	8	0.091431
			9	0.012892	9	0.098381
			10	0.011064	10	0.106184

TABLE 11  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 12 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
			11	0.015960	11	0.243431
			BIAS CORR	0.300621		
			VAR COEFF	0.012299		0.040628
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.92		91.66
12	11	10	1	0.727842	2	0.073816
			2	0.073108	3	0.059173
			3	0.046245	4	0.066141
			4	0.033326	5	0.072738
			5	0.026045	6	0.078803
			6	0.021024	7	0.085135
			7	0.026171	8	0.091463
			9	0.019221	9	0.098407
			10	0.011059	10	0.106216
			11	0.015961	11	0.243504
			BIAS CORR	0.300336		
			VAR COEFF	0.012301		0.040640
			EFFICIENCY	99.98		99.97
12	11	9	1	0.727982	2	0.102286
			2	0.073164	4	0.095783
			3	0.046154	5	0.072730
			4	0.033470	6	0.078891
			5	0.025919	7	0.085106
			6	0.030767	8	0.091580
			8	0.030459	9	0.098404
			10	0.016131	10	0.106282
			11	0.015955	11	0.243614
			BIAS CORR	0.300084		
			VAR COEFF	0.012304		0.040657
			EFFICIENCY	99.96		99.97
12	11	8	1	0.728183	2	0.102338
			2	0.073129	4	0.102499
			3	0.046381	6	0.113246
			4	0.033784	7	0.085061
			5	0.037287	8	0.091775
			7	0.035881	9	0.098362
			9	0.026258	10	0.106414
			11	0.019747	11	0.243784



TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.299541		
				0.012307		0.040690
				99.94		99.85
12	11	7	1	0.728535	2	0.102453
			2	0.073140	4	0.133697
			3	0.063028	6	0.160062
			5	0.053415	8	0.129615
			7	0.035016	9	0.098426
			9	0.026313	10	0.106595
			11	0.019753	11	0.244103
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.299395		
				0.012313		0.040747
				99.89		99.71
12	11	6	1	0.729302	3	0.144168
			2	0.073263	5	0.147304
			3	0.063042	7	0.173832
			5	0.064073	9	0.137749
			8	0.046973	10	0.106561
			11	0.023346	11	0.244662
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.297640		
				0.012326		0.040832
				99.78		99.50
12	11	5	1	0.730646	3	0.161094
			2	0.095664	6	0.192904
			4	0.082398	8	0.189093
			7	0.064418	10	0.146085
			11	0.026874	11	0.245509
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.295593		
				0.012349		0.040990
				99.59		99.12
12	11	4	1	0.765774	4	0.231171
			3	0.116422	7	0.209152
			6	0.076604	9	0.207982
			10	0.041200	11	0.284165
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.291561		
				0.012391		0.041281
				99.26		98.42

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
12	11	3	1	0.770994	5	0.340421
			3	0.142783	9	0.277482
			8	0.086223	11	0.288066
			BIAS CORR	0.276980		
			VAR COEFF	0.012476		0.041867
			EFFICIENCY	98.58		97.04
12	11	2	1	0.829186	7	0.485685
			5	0.170814	11	0.359119
			BIAS CORR	0.249489		
			VAR COEFF	0.012700		0.043642
			EFFICIENCY	96.85		93.09
12	11	1	1	1.000000	10	0.739784
			BIAS CORR	0.172231		
			VAR COEFF	0.013675		0.054067
			EFFICIENCY	89.94		75.14
12	10	10	1	0.728647	1	0.044646
			2	0.073206	2	0.056184
			3	0.046248	3	0.064894
			4	0.033434	4	0.073044
			5	0.025992	5	0.079412
			6	0.021099	6	0.087021
			7	0.017657	7	0.093129
			8	0.014987	8	0.100428
			9	0.012874	9	0.107669
			10	0.025855	10	0.364523
			BIAS CORR	0.295022		
			VAR COEFF	0.012315		0.044704
			EFFICIENCY	100.00		100.00
EFF(M/N)	99.79		83.30			
12	10	9	1	0.728783	2	0.081214
			2	0.073202	3	0.064885
			3	0.046292	4	0.073057
			4	0.033386	5	0.079423
			5	0.026042	6	0.087056
			6	0.021072	7	0.093146
			7	0.026165	8	0.100467

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
			9	0.019206	9	0.107701
			10	0.025851	10	0.364644
			BIAS CORR	0.294738		
			VAR COEFF	0.012317		0.044719
			EFFICIENCY	99.98		99.97
12	10	8	1	0.728922	2	0.112438
			2	0.073259	4	0.105566
			3	0.046200	5	0.079417
			4	0.033529	6	0.087156
			5	0.025916	7	0.093096
			6	0.030809	8	0.100599
			8	0.030452	9	0.107702
			10	0.030911	10	0.364844
			BIAS CORR	0.294409		
			VAR COEFF	0.012320		0.044742
			EFFICIENCY	99.96		99.92
12	10	7	1	0.729147	2	0.112501
			2	0.073287	4	0.146759
			3	0.046195	6	0.124736
			4	0.046958	7	0.093053
			6	0.043031	8	0.103819
			8	0.030464	9	0.107664
			10	0.030918	10	0.365184
			BIAS CORR	0.294237		
			VAR COEFF	0.012324		0.044779
			EFFICIENCY	99.93		99.93
12	10	6	1	0.729725	2	0.112642
			2	0.073266	4	0.146996
			3	0.063122	6	0.175916
			5	0.053460	8	0.142232
			7	0.044501	9	0.107746
			10	0.035926	10	0.365753
			BIAS CORR	0.293330		
			VAR COEFF	0.012333		0.044947
			EFFICIENCY	99.85		99.68
12	10	5	1	0.730669	3	0.158613
			2	0.095068	5	0.161867

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
			4	0.082433	7	0.190870
			7	0.055251	9	0.150987
			10	0.035979	10	0.366377
			BIAS CORR	0.292835		
			VAR COEFF	0.012350		0.044952
			EFFICIENCY	99.72		99.45
12	10	4	1	0.765774	3	0.199166
			3	0.116422	6	0.212167
			6	0.076604	8	0.207461
			10	0.041200	10	0.410647
			BIAS CORR	0.291561		
			VAR COEFF	0.012391		0.045139
			EFFICIENCY	99.39		99.04
12	10	3	1	0.770994	5	0.309614
			3	0.142783	8	0.247161
			8	0.086223	10	0.414208
			BIAS CORR	0.276980		
			VAR COEFF	0.012476		0.045541
			EFFICIENCY	98.71		98.16
12	10	2	1	0.829186	6	0.446469
			5	0.170814	10	0.495779
			BIAS CORR	0.249489		
			VAR COEFF	0.012700		0.046710
			EFFICIENCY	96.97		95.71
12	10	1	1	1.000000	10	0.739784
			BIAS CORR	0.172281		
			VAR COEFF	0.013675		0.054067
			EFFICIENCY	90.06		82.68
12	9	9	1	0.729984	1	0.049616
			2	0.073323	2	0.062177
			3	0.046366	3	0.072644
			4	0.033414	4	0.079927
			5	0.026116	5	0.089461
			6	0.021049	6	0.095339
			7	0.017705	7	0.103760
			8	0.014964	8	0.110857

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
			9	0.037079	9	0.497962
			BIAS CORR	0.288431		
			VAR COEFF	0.012338		0.049694
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.61		74.94
12	9	8	1	0.730120	2	0.089996
			2	0.073320	3	0.072637
			3	0.046409	4	0.079943
			4	0.033366	5	0.089478
			5	0.026165	6	0.095380
			6	0.021022	7	0.103784
			7	0.026200	8	0.110904
			9	0.043398	9	0.498140
			BIAS CORR	0.288147		
			VAR COEFF	0.012340		0.049712
			EFFICIENCY	99.98		99.96
12	9	7	1	0.730295	2	0.124958
			2	0.073320	4	0.116342
			3	0.046442	5	0.089477
			4	0.033344	6	0.095498
			5	0.037364	7	0.103734
			7	0.035830	8	0.111059
			9	0.043407	9	0.498382
			BIAS CORR	0.287951		
			VAR COEFF	0.012343		0.049741
			EFFICIENCY	99.96		99.91
12	9	6	1	0.730648	2	0.125043
			2	0.073340	4	0.162771
			3	0.063199	6	0.137852
			5	0.053541	7	0.103696
			7	0.035846	8	0.111317
			9	0.043427	9	0.498749
			BIAS CORR	0.287801		
			VAR COEFF	0.012349		0.049787
			EFFICIENCY	99.91		99.81
12	9	5	1	0.731439	3	0.175669
			2	0.095791	5	0.179397

**TABLE II**  
**COEFFICIENTS FOR ESTIMATION OF**  
**LOCATION AND SCALE PARAMETERS OF A**  
**WEIBULL POPULATION FROM L-ORDER STATISTICS**  
**(SAMPLE SIZES 11 TO 13)**

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
			4	0.070214	7	0.148092
			6	0.052587	8	0.110900
			9	0.049970	9	0.499856
			BIAS CORR	0.287114		
			VAR COEFF	0.012363		0.049871
			EFFICIENCY	99.80		99.64
12	9	4	1	0.733511	3	0.176084
			2	0.114290	5	0.179855
			5	0.095195	7	0.211436
			9	0.057003	9	0.547991
			BIAS CORR	0.285508		
			VAR COEFF	0.012398		0.049995
			EFFICIENCY	99.51		99.40
12	9	3	1	0.770994	4	0.280671
			3	0.142783	7	0.253319
			8	0.086223	9	0.550863
			BIAS CORR	0.276980		
			VAR COEFF	0.012476		0.050268
			EFFICIENCY	98.89		98.86
12	9	2	1	0.829186	5	0.414206
			5	0.170814	9	0.640932
			BIAS CORR	0.249489		
			VAR COEFF	0.012700		0.051130
			EFFICIENCY	97.15		97.19
12	9	1	1	1.000000	9	0.864584
			BIAS CORR	0.172231		
			VAR COEFF	0.013675		0.056043
			EFFICIENCY	90.22		88.67
12	8	3	1	0.731797	1	0.055666
			2	0.073530	2	0.070358
			3	0.046384	3	0.080302
			4	0.033619	4	0.091799
			5	0.026020	5	0.098277
			6	0.021164	6	0.108264
			7	0.017670	7	0.115604
			8	0.049816	8	0.649791

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.280817	
				VAR COEFF	0.012368	0.055939
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.36	66.57
12	8	7	1	0.731936	2	0.101575
			2	0.073561	3	0.080297
			3	0.046355	4	0.091822
			4	0.033666	5	0.098299
			5	0.025989	6	0.108316
			6	0.030855	7	0.115635
			8	0.057638	8	0.650061
				BIAS CORR	0.280586	
				VAR COEFF	0.012371	0.055962
				EFFICIENCY	99.98	99.96
12	8	5	1	0.732162	2	0.140231
			2	0.073588	4	0.132068
			3	0.046350	5	0.098303
			4	0.047132	6	0.108453
			6	0.043112	7	0.115586
			8	0.057656	8	0.650521
				BIAS CORR	0.280409	
				VAR COEFF	0.012375	0.055997
				EFFICIENCY	99.95	99.90
12	8	3	1	0.732790	2	0.140337
			2	0.073614	4	0.183092
			3	0.063310	6	0.154998
			5	0.064275	7	0.115555
			8	0.066010	8	0.651241
				BIAS CORR	0.279781	
				VAR COEFF	0.012385	0.056054
				EFFICIENCY	99.86	99.80
12	8	4	1	0.734273	2	0.140562
			2	0.096100	4	0.183452
			4	0.094306	6	0.218631
			8	0.075322	8	0.703638
				BIAS CORR	0.278650	
				VAR COEFF	0.012411	0.056159

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	99.66	99.61
12	8	3	1	0.770994	3	0.247720
			3	0.142783	6	0.263161
			8	0.086223	8	0.705978
			BIAS CORR	0.276980		
			VAR COEFF	0.012476		0.056356
			EFFICIENCY	99.14		99.26
12	8	2	1	0.829186	5	0.385363
			5	0.170814	8	0.760646
			BIAS CORR	0.249489		
			VAR COEFF	0.012700		0.056978
			EFFICIENCY	97.39		98.16
12	8	1	1	1.000000	8	1.001732
			BIAS CORR	0.172231		
			VAR COEFF	0.013675		0.060444
			EFFICIENCY	90.45		92.55
12	7	7	1	0.734252	1	0.063703
			2	0.073709	2	0.079468
			3	0.046639	3	0.093326
			4	0.033545	4	0.102231
			5	0.026201	5	0.113803
			6	0.021121	6	0.122135
			7	0.064532	7	0.828153
			BIAS CORR	0.272089		
			VAR COEFF	0.012410		0.063982
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.03		58.20
12	7	6	1	0.734428	2	0.115198
			2	0.073709	3	0.093326
			3	0.046672	4	0.102263
			4	0.033523	5	0.113835
			5	0.037453	6	0.122201
			7	0.074215	7	0.828527
			BIAS CORR	0.271888		
			VAR COEFF	0.012413		0.064013
			EFFICIENCY	99.98		99.95



TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE			
12	7	5	1	0.734786	2	0.160143			
			2	0.073730	4	0.149053			
			3	0.063519	5	0.113853			
			5	0.053717	6	0.122372			
			7	0.074248	7	0.829058			
			BIAS CORR	0.271730					
			VAR COEFF	0.012419		0.064060			
	EFFICIENCY	99.93		99.88					
12	7	4	1	0.735745	2	0.160292			
			2	0.096298	4	0.208181			
			4	0.082857	6	0.176307			
			7	0.085100	7	0.829936			
			BIAS CORR	0.271195					
			VAR COEFF	0.012436		0.064136			
			EFFICIENCY	99.79		99.76			
12	7	3	1	0.771554	3	0.225374			
			3	0.130532	5	0.229160			
			7	0.097914	7	0.888002			
			BIAS CORR	0.270384					
			VAR COEFF	0.012485		0.064273			
			EFFICIENCY	99.40		99.55			
			12	7	2	1	0.829186	4	0.359117
5	0.170814	7				0.945862			
BIAS CORR	0.249489								
VAR COEFF	0.012700					0.064717			
EFFICIENCY	97.72					98.66			
12	7	1				1	1.000000	7	1.160560
						BIAS CORR	0.172231		
			VAR COEFF	0.013675		0.067238			
			EFFICIENCY	90.75		95.16			
			12	6	6	1	0.737540	1	0.073910
						2	0.074075	2	0.093296
						3	0.046707	3	0.106861
4	0.033767	4				0.120441			
5	0.026187	5				0.130931			

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
			6	0.081725	6	1.045505
			BIAS CORR	0.262064		
			VAR COEFF	0.012466		0.074728
			EFFICIENCY	100.00		100.00
			EFF(M/N)	98.58		49.83
12	6	3	1	0.737769	2	0.134761
			2	0.074103	3	0.106869
			3	0.046702	4	0.120488
			4	0.047335	5	0.130978
			6	0.094091	6	1.046065
			BIAS CORR	0.261880		
			VAR COEFF	0.012470		0.074769
			EFFICIENCY	99.97		99.95
12	6	4	1	0.738450	2	0.186247
			2	0.096640	4	0.174086
			4	0.070744	5	0.131011
			6	0.094166	6	1.046938
			BIAS CORR	0.261766		
			VAR COEFF	0.012482		0.074831
			EFFICIENCY	99.87		99.86
12	6	5	1	0.773665	2	0.186450
			3	0.117472	3	0.242165
			6	0.108863	6	1.110137
			BIAS CORR	0.261487		
			VAR COEFF	0.012519		0.074931
			EFFICIENCY	99.58		99.73
12	6	2	1	0.829186	3	0.328329
			5	0.170814	6	1.172722
			BIAS CORR	0.249489		
			VAR COEFF	0.012700		0.075273
			EFFICIENCY	98.16		99.28
12	5	1	1	1.000000	6	1.353620
			BIAS CORR	0.172231		
			VAR COEFF	0.013675		0.077081
			EFFICIENCY	91.16		96.95

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE		
12	5	5	1	0.742087	1	0.088558		
			2	0.074446	2	0.110783		
			3	0.046999	3	0.128474		
			4	0.033844	4	0.142729		
			5	0.102626	5	1.322886		
			BIAS CORR	0.250478				
			VAR COEFF	0.012543		0.089810		
			EFFICIENCY	100.00		100.00		
			EFF(M/N)	97.97		41.46		
		12	5	4	1	0.742451	2	0.160482
2	0.074467				3	0.128497		
3	0.064007				4	0.142799		
4	0.119075				5	1.323706		
5	0.250308							
	BIAS CORR			0.012549		0.089868		
	VAR COEFF			99.95		99.93		
	EFFICIENCY							
12	5			3	1	0.744167	2	0.222425
					2	0.115788	4	0.207278
		3	0.140045		5	1.324943		
		4	0.249865					
		5	0.012579			0.089958		
			BIAS CORR	99.71		99.83		
			VAR COEFF					
			EFFICIENCY					
		12	5	2	1	0.829186	3	0.312478
					2	0.170814	5	1.397561
3	0.249489							
4	0.012700					0.090183		
5	98.77					99.59		
	BIAS CORR							
	VAR COEFF							
	EFFICIENCY							
12	5			1	1	1.000000	5	1.601217
					2	0.172251		
		3	0.013475			0.091480		
		4	91.7			98.17		
		5						
			BIAS CORR					
			VAR COEFF					
			EFFICIENCY					
		12	4	4	1	0.748528	1	0.109863
					2	0.075034	2	0.137762
3	0.047274				3	0.158763		
4	0.129163				4	1.699980		
5	0.236883							
	BIAS CORR							
	VAR COEFF							
	EFFICIENCY							

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF EFFICIENCY EFF(M/N)		0.112512 100.00 33.10
12	4	3	1	0.749225	2	0.199448
			2	0.097849	3	0.158815
			4	0.152926	4	1.701266
				BIAS CORR VAR COEFF EFFICIENCY		0.236748 0.012665 99.90
12	4	2	1	0.812019	2	0.276068
			4	0.187981	4	1.782776
				BIAS CORR VAR COEFF EFFICIENCY		0.236691 0.012741 99.80
12	4	1	1	1.000000	4	1.941225
				BIAS CORR VAR COEFF EFFICIENCY		0.172231 0.013675 99.00
12	3	3	1	0.758244	1	0.144938
			2	0.075841	2	0.181220
			3	0.165915	3	2.263847
				BIAS CORR VAR COEFF EFFICIENCY EFF(M/N)		0.220549 0.012819 100.00 24.74
12	3	2	1	0.794022	2	0.262662
			3	0.205978	3	2.266017
				BIAS CORR VAR COEFF EFFICIENCY		0.220599 0.012854 99.73
12	3	1	1	1.000000	3	2.456813
				BIAS CORR VAR COEFF EFFICIENCY		0.172231 0.013675 99.54

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE	
12	2	2	1	0.774444	1	0.212857	
			2	0.225556	2	3.258216	
				BIAS CORR	0.200072		
				VAR COEFF	0.013098		0.227244
				EFFICIENCY	100.00		100.00
				EFF(M/N)	93.92		16.39
12	2	1	1	1.000000	2	3.382210	
				BIAS CORR	0.172231		
				VAR COEFF	0.013675		0.227593
				EFFICIENCY	65.78		99.85
12	1	1	1	1.000000	1	5.806159	
				BIAS CORR	0.172231		
				VAR COEFF	0.013675		0.460999
				EFFICIENCY	100.00		100.00
				EFF(M/N)	84.87		8.78
13	13	13	1	0.723622	1	0.033498	
			2	0.071926	2	0.042051	
			3	0.045336	3	0.048647	
			4	0.032687	4	0.054325	
			5	0.025471	5	0.059516	
			6	0.020586	6	0.064454	
			7	0.017381	7	0.069370	
			8	0.014716	8	0.074254	
			9	0.012809	9	0.079440	
			10	0.011102	10	0.085109	
			11	0.009658	11	0.091701	
			12	0.008261	12	0.100256	
			13	0.006447	13	0.119829	
				BIAS CORR	0.249436		
	VAR COEFF	0.011013		0.034361			
	EFFICIENCY	100.00		100.00			
	EFF(M/N)	100.00		100.00			
13	13	12	1	0.723720	2	0.060437	
			2	0.071964	3	0.048686	
			3	0.045262	4	0.054330	
			4	0.032829	5	0.059513	
			5	0.025323	6	0.064481	

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
			6	0.020698	7	0.069314
			7	0.017326	8	0.074285
			8	0.022032	9	0.079446
			10	0.016489	10	0.085131
			11	0.009651	11	0.091719
			12	0.008263	12	0.100278
			13	0.006447	13	0.119855
			BIAS CORR	0.295392		
			VAR COEFF	0.011015		0.034369
			EFFICIENCY	99.99		99.98
12	13	11	1	0.723848	2	0.084145
			2	0.071892	4	0.078906
			3	0.045488	5	0.059479
			4	0.032463	6	0.064598
			5	0.025725	7	0.069163
			6	0.020402	8	0.074498
			7	0.025570	9	0.079322
			9	0.025906	10	0.085234
			11	0.014006	11	0.091723
			12	0.008253	12	0.100315
			13	0.006447	13	0.119894
			BIAS CORR	0.295111		
			VAR COEFF	0.011016		0.034360
			EFFICIENCY	99.97		99.95
12	13	10	1	0.723965	2	0.084170
			2	0.072031	4	0.109366
			3	0.049175	6	0.093159
			4	0.032979	7	0.068993
			5	0.025182	8	0.074858
			6	0.030074	9	0.079005
			8	0.029904	10	0.085516
			10	0.022692	11	0.091667
			12	0.011594	12	0.100387
			13	0.006444	13	0.119932
			BIAS CORR	0.294710		
			VAR COEFF	0.011019		0.034397
			EFFICIENCY	99.95		99.90
11	13	9	1	0.724160	2	0.084210

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
			2	0.072062	4	0.109517
			3	0.045161	6	0.130247
			4	0.045878	8	0.106399
			6	0.042112	9	0.078878
			8	0.029924	10	0.085768
			10	0.022708	11	0.091633
			12	0.011552	12	0.100501
			13	0.006444	13	0.120049
			BIAS CORR	0.294586		
			VAR COEFF	0.011022		0.034426
			EFFICIENCY	99.92		99.81
13	13	0	1	0.724532	3	0.118528
			2	0.071912	5	0.120254
			3	0.061697	7	0.140663
			5	0.052351	9	0.112968
			7	0.035110	10	0.084810
			9	0.025954	11	0.092241
			11	0.020048	12	0.100499
			13	0.008396	13	0.120214
			BIAS CORR	0.293801		
			VAR COEFF	0.011027		0.034471
			EFFICIENCY	99.88		99.68
13	13	7	1	0.725121	3	0.147834
			2	0.072097	6	0.157569
			3	0.061649	8	0.151663
			5	0.062520	10	0.119308
			9	0.045870	11	0.091970
			11	0.024343	12	0.100845
			13	0.008400	13	0.120463
			BIAS CORR	0.292677		
			VAR COEFF	0.011036		0.034548
			EFFICIENCY	99.79		99.46
13	13	0	1	0.725902	4	0.180115
			2	0.043853	7	0.169774
			4	0.068731	9	0.164187
			6	0.051181	11	0.126190
			9	0.039852	12	0.101101
			12	0.020480	13	0.120913

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.289090	
				VAR COEFF	0.011048	0.034676
				EFFICIENCY	99.68	99.09
13	13	5	1	0.727335	5	0.230411
			2	0.094001	8	0.182689
			4	0.080602	10	0.180066
			7	0.062409	12	0.133678
			11	0.035654	13	0.121760
				BIAS CORR	0.283630	
				VAR COEFF	0.011070	0.034930
				EFFICIENCY	79.49	98.37
12	13	4	1	0.761966	6	0.324784
			3	0.114332	10	0.240096
			6	0.063527	12	0.135382
			11	0.040176	13	0.123405
				BIAS CORR	0.281876	
				VAR COEFF	0.011110	0.035411
				EFFICIENCY	99.13	97.04
12	13	3	1	0.791042	7	0.384108
			4	0.136366	11	0.265865
			9	0.072593	13	0.151526
				BIAS CORR	0.271372	
				VAR COEFF	0.011189	0.036329
				EFFICIENCY	98.43	94.58
12	13	2	1	0.840472	9	0.546077
			6	0.159328	13	0.200630
				BIAS CORR	0.247027	
				VAR COEFF	0.011393	0.039428
				EFFICIENCY	96.66	87.15
11	13	1	1	1.000000	11	0.716340
				BIAS CORR	0.163281	
				VAR COEFF	0.012291	0.050114
				EFFICIENCY	89.61	68.97
13	12	12	1	0.724129	1	0.036281
			2	0.071979	2	0.049552



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
			3	0.045365	3	0.052653
			4	0.032712	4	0.058912
			5	0.025480	5	0.064293
			6	0.020608	6	0.069981
			7	0.017381	7	0.074843
			8	0.014728	8	0.080484
			9	0.012807	9	0.085848
			10	0.011099	10	0.091986
			11	0.009642	11	0.098882
			12	0.014080	12	0.225607
			BIAS CORR	0.291697		
			VAR COEFF	0.011021		0.037227
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.93		92.30
12	12	11	1	0.724222	2	0.066003
			2	0.072014	3	0.052642
			3	0.045291	4	0.058920
			4	0.032851	5	0.064291
			5	0.025332	6	0.070011
			6	0.020720	7	0.074838
			7	0.017326	8	0.080519
			8	0.022044	9	0.085857
			10	0.016486	10	0.092012
			11	0.009635	11	0.098903
			12	0.014082	12	0.225660
			BIAS CORR	0.291456		
			VAR COEFF	0.011022		0.037236
			EFFICIENCY	99.99		99.98
13	12	10	1	0.774351	2	0.091130
			2	0.071942	4	0.085522
			3	0.045517	5	0.064256
			4	0.032484	6	0.070140
			5	0.025733	7	0.074677
			6	0.020424	8	0.080752
			7	0.025576	9	0.085725
			8	0.025907	10	0.092126
			11	0.013988	11	0.098910
			12	0.014073	12	0.225743
			BIAS CORR	0.291172		

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				0.011024		0.037249
				99.97		99.94
13	12	9	1	0.724468	2	0.091162
			2	0.072081	4	0.118433
			3	0.045204	6	0.100999
			4	0.033004	7	0.074495
			5	0.025191	8	0.081144
			6	0.030096	9	0.085386
			8	0.029915	10	0.092434
			10	0.022677	11	0.098854
			12	0.017365	12	0.225886
				BIAS CORR		
				0.290774		
				VAR COEFF		0.037259
				99.95		99.89
13	12	8	1	0.724662	2	0.091210
			2	0.072112	4	0.118604
			3	0.045190	6	0.141054
			4	0.045908	8	0.115208
			6	0.042137	9	0.085255
			8	0.029935	10	0.092713
			10	0.022694	11	0.098823
			12	0.017363	12	0.226119
				BIAS CORR		
				0.290650		
				VAR COEFF		0.037303
				99.92		99.80
13	12	7	1	0.725166	3	0.128417
			2	0.072018	5	0.130239
			3	0.061749	7	0.152267
			5	0.052320	9	0.122114
			7	0.043289	10	0.091686
			10	0.028072	11	0.099493
			12	0.017386	12	0.226307
				BIAS CORR		
				0.290036		
				VAR COEFF		0.037356
				99.86		99.66
13	12	6	1	0.725902	3	0.160148
			2	0.093853	6	0.170695

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
			4	0.068731	8	0.164178
			6	0.051181	10	0.129000
			9	0.039852	11	0.099215
			12	0.020480	12	0.226961
			BIAS CORR	0.289090		
			VAR COEFF	0.011048		0.037445
			EFFICIENCY	99.75		99.42
13	12	5	1	0.727335	4	0.203694
			2	0.094001	7	0.183814
			4	0.080602	9	0.177679
			7	0.062409	11	0.136215
			11	0.035654	12	0.227750
			BIAS CORR	0.283630		
			VAR COEFF	0.011070		0.037596
			EFFICIENCY	99.56		99.02
13	12	4	1	0.761966	5	0.249785
			3	0.114332	8	0.197981
			6	0.083527	10	0.194717
			11	0.040176	12	0.263885
			BIAS CORR	0.281876		
			VAR COEFF	0.011110		0.037893
			EFFICIENCY	99.19		98.24
13	12	3	1	0.791042	6	0.352471
			4	0.136366	10	0.260046
			9	0.072593	12	0.267640
			BIAS CORR	0.271372		
			VAR COEFF	0.011189		0.038457
			EFFICIENCY	98.50		96.80
13	12	2	1	0.840472	8	0.484972
			6	0.159528	12	0.334688
			BIAS CORR	0.247027		
			VAR COEFF	0.011393		0.040207
			EFFICIENCY	96.73		92.59
13	12	1	1	1.000000	11	0.716340
			BIAS CORR	0.163281		
			VAR COEFF	0.012291		0.050114

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				89.67		74.28
				EFFICIENCY		
13	11	11	1	0.724921	1	0.039581
			2	0.072049	2	0.049603
			3	0.045428	3	0.057690
			4	0.032708	4	0.063578
			5	0.025565	5	0.071151
			6	0.020554	6	0.075032
			7	0.017451	7	0.082555
			8	0.014699	8	0.087030
			9	0.012819	9	0.093640
			10	0.011080	10	0.099842
			11	0.022726	11	0.336232
				BIAS CORR		
				VAR COEFF		0.040621
				EFFICIENCY		100.00
				EFF(M/N)		84.59
13	11	10	1	0.725019	2	0.071915
			2	0.072087	3	0.057679
			3	0.045355	4	0.063587
			4	0.032846	5	0.071151
			5	0.025417	6	0.075067
			6	0.020666	7	0.082551
			7	0.017396	8	0.087071
			8	0.022021	9	0.093651
			10	0.016472	10	0.099872
			11	0.022721	11	0.336317
				BIAS CORR		
				VAR COEFF		0.040631
				EFFICIENCY		99.97
13	11	9	1	0.725146	2	0.099450
			2	0.072015	4	0.092738
			3	0.045380	5	0.071116
			4	0.032485	6	0.075210
			5	0.025818	7	0.082378
			6	0.020371	8	0.087328
			7	0.025629	9	0.093509
			9	0.025896	10	0.100000
			11	0.027059	11	0.336421

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		0.286276
				VAR COEFF		0.011036
				EFFICIENCY		99.94
13	11	8	1	0.725298	2	0.099491
			2	0.072000	4	0.129169
			3	0.045634	6	0.109369
			4	0.032440	7	0.082182
			5	0.036516	8	0.087767
			7	0.035135	9	0.093140
			9	0.025915	10	0.100346
			11	0.027062	11	0.336524
				BIAS CORR		0.286138
				VAR COEFF		0.011038
				EFFICIENCY		99.95
13	11	7	1	0.725616	2	0.099554
			2	0.072016	4	0.129370
			3	0.061784	6	0.153572
			5	0.052422	8	0.125357
			7	0.035147	9	0.093003
			9	0.025950	10	0.100663
			11	0.027064	11	0.336761
				BIAS CORR		0.286035
				VAR COEFF		0.011043
				EFFICIENCY		99.91
13	11	6	1	0.726206	3	0.139971
			2	0.072202	5	0.142103
			3	0.061736	7	0.166024
			5	0.062605	9	0.132889
			8	0.045889	10	0.099545
			11	0.031362	11	0.337690
				BIAS CORR		0.284906
				VAR COEFF		0.011053
				EFFICIENCY		99.82
13	11	5	1	0.727335	3	0.174878
			2	0.094001	6	0.185922
			4	0.080602	8	0.178837
			7	0.062409	10	0.140293

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
			11	0.035654	11	0.338154
			BIAS CORR	0.283630		
			VAR COEFF	0.011070		0.040881
			EFFICIENCY	99.67		99.36
12	11	4	1	0.761966	4	0.222290
			3	0.114332	7	0.200659
			6	0.083527	9	0.193330
			11	0.040176	11	0.379244
			BIAS CORR	0.281876		
			VAR COEFF	0.011110		0.041057
			EFFICIENCY	99.30		98.94
12	11	3	1	0.791042	5	0.323829
			4	0.136366	9	0.263086
			9	0.072593	11	0.382939
			BIAS CORR	0.271372		
			VAR COEFF	0.011189		0.041479
			EFFICIENCY	98.60		97.93
12	11	2	1	0.840472	7	0.449659
			6	0.151528	11	0.459395
			BIAS CORR	0.247027		
			VAR COEFF	0.011393		0.042629
			EFFICIENCY	96.84		95.29
12	11	1	1	1.000000	11	0.716340
			BIAS CORR	0.163281		
			VAR COEFF	0.012291		0.050114
			EFFICIENCY	89.77		81.06
12	10	10	1	0.726030	1	0.043468
			2	0.072177	2	0.054864
			3	0.045426	3	0.062302
			4	0.032898	4	0.072236
			5	0.025388	5	0.074780
			6	0.020784	6	0.085778
			7	0.017320	7	0.088279
			8	0.014771	8	0.096568
			9	0.012798	9	0.102206
			10	0.032421	10	0.456479

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.281063	
				VAR COEFF	0.011050	0.044699
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.67	76.87
13	10	9	1	0.726127	2	0.079370
			2	0.072215	3	0.062292
			3	0.045352	4	0.072249
			4	0.033036	5	0.074781
			5	0.025240	6	0.085819
			6	0.020895	7	0.088276
			7	0.017265	8	0.096615
			8	0.022075	9	0.102221
			10	0.037795	10	0.456610
				BIAS CORR	0.280820	
				VAR COEFF	0.011051	0.044712
				EFFICIENCY	99.99	99.97
13	10	8	1	0.726237	2	0.109109
			2	0.072262	4	0.103734
			3	0.045280	5	0.074743
			4	0.033134	6	0.085977
			5	0.025170	7	0.088091
			6	0.030189	8	0.096896
			8	0.029923	9	0.102071
			10	0.037805	10	0.456868
				BIAS CORR	0.280659	
				VAR COEFF	0.011053	0.044730
				EFFICIENCY	99.97	99.93
13	10	7	1	0.726432	2	0.109155
			2	0.072293	4	0.142029
			3	0.045266	6	0.121863
			4	0.046027	7	0.087887
			6	0.042221	8	0.097360
			8	0.029942	9	0.101686
			10	0.037820	10	0.457347
				BIAS CORR	0.280537	
				VAR COEFF	0.011056	0.044757
				EFFICIENCY	99.94	99.87

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE					
12	10	6	1	0.726940	2	0.109230					
			2	0.072200	4	0.142253					
			3	0.061890	6	0.169166					
			5	0.052414	8	0.237570					
			7	0.043336	9	0.101546					
			10	0.043221	10	0.457954					
			BIAS CORR			0.279908					
			VAR COEFF			0.011064		0.044805			
			EFFICIENCY			99.88		99.76			
			12	10	5	1	0.727793	3	0.154214		
2	0.094040	5				0.155727					
4	0.080741	7				0.182154					
7	0.054101	9				0.145835					
10	0.043326	10				0.457870					
BIAS CORR						0.279561					
VAR COEFF						0.011077		0.044887			
EFFICIENCY						99.75		99.58			
12	10	4				1	0.761992	3	0.191835		
						3	0.114287	6	0.204998		
			6	0.074629	8	0.196045					
			10	0.049092	10	0.502873					
			BIAS CORR			0.278774					
			VAR COEFF			0.011110		0.045009			
			EFFICIENCY			99.46		99.31			
			12	10	3	1	0.791042	3	0.297933		
						4	0.136366	8	0.235768		
						9	0.072593	10	0.506296		
BIAS CORR						0.271372					
VAR COEFF						0.011189		0.045333			
EFFICIENCY						98.75		98.60			
12	10	2				1	0.840472	6	0.421526		
						6	0.159528	10	0.587469		
						BIAS CORR			0.247027		
						VAR COEFF			0.011393		0.046131
			EFFICIENCY			96.98		96.90			
			11	10	1	1.000000	10	0.830369			



TABLE 11  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 12)

SHAPE PARAMETER = 1.90

n	m	L	i	LOCATION	i	SCALE			
				BIAS CORR	0.163201				
				VAN COEFF	0.012291	0.051274			
				EFFICIENCY	89.90	87.76			
12	9	7	1	0.727570	1	0.048475			
			2	0.072767	2	0.060009			
			3	0.045685	3	0.071050			
			4	0.037623	4	0.079098			
			5	0.034076	5	0.084167			
			6	0.030417	6	0.087761			
			7	0.017616	7	0.100477			
			8	0.016706	8	0.108776			
			9	0.043377	9	0.130777			
				BIAS CORR	0.276091				
				VAN COEFF	0.011071	0.044459			
				EFFICIENCY	100.00	100.00			
				EFFI/M/41	97.56	87.19			
11	9	8	1	0.727601	7	0.047817			
			2	0.072750	8	0.071041			
			3	0.045610	9	0.079113			
			4	0.037600	10	0.084173			
			5	0.034070	11	0.087797			
			6	0.030407	12	0.100473			
			7	0.017605	13	0.108767			
			8	0.016704	14	0.130768			
							BIAS CORR	0.276297	
				VAN COEFF	0.011074	0.044705			
				EFFICIENCY	97.97	97.97			
11	9	7	1	0.727797	7	0.121670			
			2	0.072714	8	0.111436			
			3	0.045004	9	0.087137			
			4	0.037407	10	0.090134			
			5	0.034467	11	0.100487			
			6	0.031616	12	0.104147			
			7	0.016900	13	0.107174			
							BIAS CORR	0.276100	
							VAN COEFF	0.011076	0.044719
				EFFICIENCY	97.97	97.97			

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 19)

SHAPE PARAMETER = 1.90

n	m	L	i	LOCATION	i	SCALE					
17	9	6	1	0.728111	7	0.121690					
			2	0.072236	4	0.197119					
			3	0.061944	6	0.132460					
			5	0.092987	7	0.100240					
			7	0.039178	8	0.106727					
			9	0.044894	9	0.991343					
			REAL CORR			0.774094					
			VAR CORR			0.011001		0.044768			
			EFFICIENCY			97.92		97.84			
			15	9	5	1	0.728070	3	0.170948		
2	0.074776	8				0.179387					
4	0.068961	7				0.148480					
6	0.091246	8				0.109136					
9	0.036677	9				0.993049					
REAL CORR						0.713643					
VAR CORR						0.011043		0.044877			
EFFICIENCY						97.62		97.72			
13	9	5				1	0.730687	3	0.170831		
						2	0.112084	8	0.173787		
			4	0.043114	7	0.701441					
			9	0.044164	9	0.649317					
			REAL CORR			0.722417					
			VAR CORR			0.011121		0.044910			
			EFFICIENCY			97.87		97.84			
			11	9	5	1	0.771047	4	0.270430		
						4	0.136864	7	0.748574		
						9	0.072043	9	0.647488		
REAL CORR						0.771877					
VAR CORR						0.011187		0.090139			
EFFICIENCY						98.98		97.11			
13	9	7				1	0.040477	8	0.844367		
						4	0.194808	9	0.732474		
						REAL CORR			0.747021		
						VAR CORR			0.011841		0.080784
			EFFICIENCY			97.10		97.90			
			11	9	1	1	1.000000	9	0.992480		

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

n	p	l	i	LOCATION		SCALE		
				BIAS CORR VAR COEFF EFFICIENCY				
11	0	0	1	0.163701	90.09	1	0.064375	
			2	0.012271		2	41.39	
			3	0.779470		3	0.064072	
			4	0.077506		4	0.064039	
			5	0.069913		5	0.074367	
			6	0.033161		6	0.071766	
			7	0.029909		7	0.077067	
			8	0.020819		8	0.104986	
			9	0.017396		9	0.110719	
			0.066667		0.743377			
			0.267015		0.065936			
			0.011107		100.00			
			100.00		61.41			
			97.17					
11	0	7	1	0.779401	97.78	7	0.0743661	
			2	0.077614		8	0.074356	
			3	0.069901		9	0.071766	
			4	0.0331709		6	0.077079	
			5	0.029911		6	0.104961	
			6	0.0208105		7	0.110717	
			7	0.017396		8	0.743371	
				0.266809			0.065946	
				0.011108			100.00	
	100.00		97.77					
11	0	1	1	0.779716	97.78	7	0.134677	
			2	0.077616		8	0.134697	
			3	0.069907		9	0.077069	
			4	0.033171		6	0.105007	
			5	0.029913		7	0.110961	
			6	0.020811		8	0.743117	
				0.266171			0.065901	
				0.011107			100.00	
				100.00			97.77	
13	0	1	1	0.780004	7	0.134170		
			2	0.077604	8	0.137403		
			3	0.067087	9	0.100660		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 'O 13)

SHAPE PARAMETER = 1.90

L	M	L	I	LOCATION		SCALE	
			1	0.062017	7	0.110267	
			2	0.072197	8	0.746071	
			BIAS CORR	0.266738			
			VAN COEFF	0.011116		0.056029	
			EFFICIENCY	99.88		99.84	
13	6	6	1	0.731668	7	0.136739	
			2	0.044909	4	0.177811	
			4	0.047049	6	0.209838	
			8	0.081798	8	0.748043	
			BIAS CORR	0.269428			
VAN COEFF	0.011196		0.096100				
EFFICIENCY	99.70		99.71				
13	9	9	1	0.767424	3	0.238983	
			3	0.134431	6	0.294707	
			8	0.043168	8	0.800150	
			BIAS CORR	0.266198			
			VAN COEFF	0.011196		0.084763	
EFFICIENCY	99.72		99.87				
13	12	12	1	0.840477	5	0.317281	
			4	0.184928	8	0.884264	
			BIAS CORR	0.267077			
			VAN COEFF	0.011843		0.064740	
			EFFICIENCY	97.98		98.93	
13	15	15	1	1.000000	8	1.041137	
			BIAS CORR	0.163781			
			VAN COEFF	0.017741		0.084497	
			EFFICIENCY	98.93		99.16	
13	7	7	1	0.737074	1	0.067149	
			2	0.072661	2	0.076663	
			3	0.049467	3	0.041014	
			4	0.037887	4	0.047585	
			5	0.028804	5	0.111016	
			6	0.020677	6	0.113404	
			7	0.044474	7	0.421476	
			BIAS CORR	0.268886			
			VAN COEFF	0.011142		0.068540	

TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	LOCATION		SCALE				
			EFFICIENCY (FFIM/N)	100.00 98.64	100.00 93.71				
13	7	5	1	0.737259	2	0.111740			
			2	0.077646	3	0.091811			
			3	0.046077	4	0.097613			
			4	0.037797	5	0.111727			
			5	0.036664	6	0.117474			
			6	0.079644	7	0.720272			
			BIAS CORR VAR COEFF EFFICIENCY			0.798307 0.011144 99.98	0.064009 99.96		
12	7	5	1	0.737960	2	0.105609			
			2	0.077663	3	0.104501			
			3	0.067349	4	0.110479			
			4	0.057747	5	0.117776			
			5	0.074687	6	0.720546			
			BIAS CORR VAR COEFF EFFICIENCY			0.798270 0.011144 99.93	0.064744 99.90		
			11	7	6	1	0.733441	2	0.105770
2	0.094743	3				0.700767			
3	0.081167	4				0.171074			
4	0.040484	5				0.774917			
BIAS CORR VAR COEFF EFFICIENCY						0.797869 0.011161 99.81	0.064175 99.80		
11	7	5				1	0.748037	2	0.717047
						2	0.177931	3	0.770777
			3	0.103776	4	0.786746			
			BIAS CORR VAR COEFF EFFICIENCY			0.797308 0.011704 99.44	0.064711 99.64		
			11	7	7	1	0.840977	4	0.346011
						6	0.194078	7	1.043746
						BIAS CORR VAR COEFF			0.797077 0.011943

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.90

L	M	L	I	LOCATION		SCALE	
				EFFICIENCY	97.79		99.09
13	7	1	1	1.000000		7	1.293611
				BIAS CORR	0.163281		
				VAN COEFF	0.012291		0.066997
				EFFICIENCY	90.69		96.13
11	6	0	1	0.739483		1	0.071869
			2	0.073104		2	0.091079
			3	0.049919		3	0.101087
			4	0.033198		4	0.117270
			5	0.029716		5	0.126339
			6	0.086984		6	1.191670
				BIAS CORR	0.248860		
				VAN COEFF	0.011194		0.074729
				EFFICIENCY	100.00		100.00
				EFF (M/N)	98.38		99.98
13	6		1	0.739486		2	0.131614
			2	0.073186		3	0.101088
			3	0.049901		4	0.117261
			4	0.033170		5	0.126369
			6	0.086907		6	1.192148
				BIAS CORR	0.248770		
				VAN COEFF	0.011198		0.074760
				EFFICIENCY	99.97		99.99
13	6	0	1	0.739477		2	0.100879
			2	0.049114		3	0.164407
			4	0.064974		5	0.126343
			6	0.048984		6	1.102461
				BIAS CORR	0.248643		
				VAN COEFF	0.011708		0.075810
				EFFICIENCY	99.88		99.89
13	6	1	1	0.770777		2	0.181033
			3	0.119481		4	0.234734
			6	0.113747		6	1.214674
				BIAS CORR	0.248668		
				VAN COEFF	0.011239		0.074878
				EFFICIENCY	99.60		99.78

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.90

N	M	L	J	LOCATION	J	SCALE			
13	6	2	1	0.840472	3	0.317198			
			6	0.199928	6	1.276076			
			BIAS CORR	0.247027					
			VAN COEFF	0.011999		0.079166			
			EFFICIENCY	98.79		94.41			
13	6	1	1	1.000000	6	1.492974			
			BIAS CORR	0.169781					
			VAN COEFF	0.012291		0.076676			
			EFFICIENCY	91.08		97.52			
13	9	4	1	0.742168	1	0.086796			
			2	0.073448	2	0.107978			
			3	0.046264	3	0.124867			
			4	0.033237	4	0.138171			
			9	0.104870	9	1.438311			
			BIAS CORR	0.237740					
			VAN COEFF	0.011766		0.084808			
			EFFICIENCY	100.00		100.00			
			EFF(M/N)	97.76		98.76			
13	9	4	1	0.740903	2	0.186219			
			2	0.073466	3	0.174881			
			3	0.067818	4	0.138731			
			9	0.123214	9	1.432194			
			BIAS CORR	0.237411					
			VAN COEFF	0.011271		0.084858			
			EFFICIENCY	99.49		99.44			
			13	9	3	1	0.742103	2	0.215478
						2	0.113697	4	0.201477
9	0.144809	9				1.440197			
BIAS CORR	0.237280								
VAN COEFF	0.011246					0.084931			
EFFICIENCY	99.73		99.86						
13	6	2	1	0.874791	3	0.303974			
			6	0.125209	6	1.611093			
			BIAS CORR	0.237118					
			VAN COEFF	0.011978		0.090117			

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	98.84	99.66
11	2	1	1	1.000000	2	1.710277
				BIAS CORR	0.163201	
				VAR COEFF	0.012291	0.091178
				EFFICIENCY	91.66	98.50
11	4	4	1	0.746731	1	0.106934
			2	0.074060	2	0.193936
			3	0.046541	3	0.194048
			4	0.132668	4	1.029641
				BIAS CORR	0.224743	
				VAR COEFF	0.011367	0.112911
				EFFICIENCY	100.00	100.00
				EFF (M/N)	96.89	90.94
11	4	3	1	0.747385	2	0.144248
			2	0.098346	3	0.194084
			4	0.196269	4	1.890813
				BIAS CORR	0.224644	
				VAR COEFF	0.011377	0.112947
				EFFICIENCY	99.91	99.93
11	4	2	1	0.808680	2	0.260070
			4	0.141370	4	1.410343
				BIAS CORR	0.224684	
				VAR COEFF	0.011442	0.112977
				EFFICIENCY	99.34	99.83
11	4	1	1	1.000000	4	2.069168
				BIAS CORR	0.163201	
				VAR COEFF	0.012291	0.113493
				EFFICIENCY	97.48	99.17
11	3	3	1	0.746570	1	0.141081
			2	0.074078	2	0.176178
			3	0.168893	3	2.416713
				BIAS CORR	0.209173	
				VAR COEFF	0.011818	0.180843
				EFFICIENCY	100.00	100.00
				EFF (M/N)	99.61	77.92



TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 1.50

N	M	L	I	LOCATION	I	SCALE
11	3	2	1	0.791618	2	0.255818
			2	0.208982	3	2.418674
			BIAS CORR	0.209249		
			VAR COEFF	0.011848		0.150676
			EFFICIENCY	94.75		99.91
11	3	1	1	1.000000	3	2.609020
			BIAS CORR	0.169281		
			VAR COEFF	0.012291		0.191137
			EFFICIENCY	93.72		99.61
11	2	2	1	0.772687	1	0.207167
			2	0.227113	2	2.499230
			BIAS CORR	0.184709		
			VAR COEFF	0.011771		0.227243
			EFFICIENCY	100.00		100.00
			EFF(M/N)	93.96		19.12
11	2	1	1	1.000000	2	3.976147
			BIAS CORR	0.169281		
			VAR COEFF	0.012291		0.227930
			EFFICIENCY	99.77		94.87
11	1	1	1	1.000000	1	6.124407
			BIAS CORR	0.169281		
			VAR COEFF	0.012291		0.460446
			EFFICIENCY	100.00		100.00
				EFF(M/N)	89.61	

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE		
11	11	11	1	0.597049	1	0.032341		
			2	0.092080	2	0.044328		
			3	0.063523	3	0.054051		
			4	0.049125	4	0.062816		
			5	0.040649	5	0.071206		
			6	0.034783	6	0.079591		
			7	0.030600	7	0.088338		
			8	0.027223	8	0.097870		
			9	0.024440	9	0.109033		
			10	0.021864	10	0.123435		
			11	0.018672	11	0.157016		
	BIAS CORR		0.441758					
	VAR COEFF		0.014390		0.029970			
	EFFICIENCY		100.00		100.00			
	EFF(M/N)		100.00		100.00			
11	11	17	1	0.597338	2	0.063358		
			2	0.092153	3	0.054017		
			3	0.063461	4	0.062844		
			4	0.049368	5	0.071207		
			5	0.040272	6	0.079673		
			6	0.031847	7	0.088356		
			7	0.040720	8	0.097907		
			8	0.024233	9	0.109068		
			10	0.021439	10	0.123477		
			11	0.018672	11	0.157069		
				BIAS CORR		0.441278		
	VAR COEFF		0.014398		0.029980			
	EFFICIENCY		99.99		99.97			
11	11	4	1	0.597687	2	0.088627		
			2	0.092107	4	0.050682		
			3	0.063780	5	0.070487		
			4	0.048749	6	0.074863		
			5	0.039318	7	0.088281		
			7	0.062320	8	0.048023		
			9	0.033588	9	0.109098		
			10	0.021793	10	0.123354		
			11	0.018701	11	0.157198		
				BIAS CORR		0.440726		
				VAR COEFF		0.014406		0.029998

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	99.89	99.91
11	11	8	1	0.598096	2	0.088630
			2	0.092339	4	0.127054
			3	0.063312	6	0.114064
			4	0.070119	7	0.087684
			6	0.071048	8	0.098492
			8	0.055890	9	0.109077
			10	0.030978	10	0.123694
			11	0.018659	11	0.157307
			BIAS CORR	0.439914		
			VAR COEFF	0.014416		0.030027
			EFFICIENCY	99.82		99.81
11	11	7	1	0.598873	3	0.130742
			2	0.092174	5	0.144721
			3	0.087849	7	0.129729
			5	0.083429	8	0.097277
			7	0.067437	9	0.109803
			9	0.091027	10	0.123749
			11	0.024169	11	0.197991
			BIAS CORR	0.438188		
			VAR COEFF	0.014434		0.030080
			EFFICIENCY	99.70		99.63
11	11	6	1	0.600277	3	0.131076
			2	0.122124	5	0.145173
			4	0.107943	7	0.182972
			6	0.088489	9	0.149989
			9	0.067006	10	0.173877
			11	0.074234	11	0.198147
			BIAS CORR	0.436784		
			VAR COEFF	0.014464		0.030175
			EFFICIENCY	99.49		99.31
11	11	5	1	0.602480	4	0.218496
			2	0.122600	7	0.216499
			4	0.122864	9	0.190876
			7	0.096829	10	0.124979
			10	0.099212	11	0.199073
			BIAS CORR	0.427161		

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.79

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF EFFICIENCY		
				0.014924 99.08		0.090350 98.75
11	11	4	1	0.649330	9	0.276825
			3	0.161376	8	0.243400
			6	0.129763	10	0.166047
			10	0.063531	11	0.160562
				BIAS CORR		
				0.424303		
				VAR COEFF		
				0.014619		0.090689
				EFFICIENCY		97.66
11	11	3	1	0.684096	6	0.344101
			4	0.210080	9	0.282870
			9	0.109825	11	0.197085
				BIAS CORR		
				0.412359		
				VAR COEFF		
				0.014821		0.031473
				EFFICIENCY		95.22
11	11	2	1	0.795014	8	0.518075
			6	0.244986	11	0.237650
				BIAS CORR		
				0.372250		
				VAR COEFF		
				0.013336		0.033852
				EFFICIENCY		88.13
11	11	1	1	1.000000	9	0.794911
				BIAS CORR		
				0.226261		
				VAR COEFF		
				0.017805		0.043301
				EFFICIENCY		67.21
11	10	1'	1	0.998650	1	0.035265
			2	0.042324	2	0.048755
			3	0.063689	3	0.054386
			4	0.044234	4	0.064136
			9	0.040730	8	0.078117
			6	0.034875	6	0.067558
			7	0.030606	7	0.046447
			8	0.027370	8	0.108364
			4	0.024317	4	0.118275
			10	0.038183	10	0.285860
				BIAS CORR		
				0.432074		
				VAR COEFF		
				0.014424		0.032476

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				EFFICIENCY		EFFICIENCY
				EFF(M/N)		EFF(M/N)
				99.73		90.88
11	10	9	1	0.598943	2	0.069904
			2	0.092398	3	0.059350
			3	0.063623	4	0.069170
			4	0.049502	5	0.078120
			5	0.040356	6	0.087596
			6	0.051943	7	0.096520
			8	0.040870	8	0.108413
			9	0.024110	9	0.118266
			10	0.038254	10	0.285968
				BIAS CORR		
				0.431597		
				VAR COEFF		0.032989
				0.014436		99.96
				EFFICIENCY		
				99.95		
11	10	8	1	0.599297	2	0.047448
			2	0.092353	4	0.099761
			3	0.063942	5	0.077878
			4	0.048879	6	0.087865
			5	0.059452	7	0.096443
			7	0.062454	8	0.108548
			9	0.035525	9	0.118305
			10	0.038097	10	0.286152
				BIAS CORR		
				0.431026		
				VAR COEFF		0.033010
				0.014445		99.90
				EFFICIENCY		
				99.89		
11	10	7	1	0.599699	2	0.097467
			2	0.092584	4	0.139680
			3	0.063473	6	0.125401
			4	0.070297	7	0.095796
			6	0.071183	8	0.109074
			8	0.055923	9	0.118292
			10	0.046842	10	0.286475
				BIAS CORR		
				0.430245		
				VAR COEFF		0.033045
				0.014455		99.79
				EFFICIENCY		
				99.82		
11	10	6	1	0.600623	3	0.143808
			2	0.122714	5	0.159064

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			4	0.102956	7	0.137676
			6	0.071300	8	0.107759
			8	0.055997	9	0.119109
			10	0.046910	10	0.286911
			BIAS CORR	0.430287		
			VAR COEFF	0.014479		0.033110
			EFFICIENCY	99.66		99.60
11	10	5	1	0.602480	3	0.144230
			2	0.122600	5	0.159544
			4	0.122869	7	0.200717
			7	0.096839	9	0.163674
			10	0.055212	10	0.287573
			BIAS CORR	0.427161		
			VAR COEFF	0.014524		0.033230
			EFFICIENCY	99.35		99.24
11	10	4	1	0.64533	4	0.240491
			3	0.161376	7	0.238132
			6	0.129763	9	0.164737
			10	0.063531	10	0.289350
			BIAS CORR	0.424303		
			VAR COEFF	0.014619		0.033437
			EFFICIENCY	98.70		98.62
11	10	3	1	0.684096	5	0.304669
			4	0.210080	8	0.267550
			9	0.105825	10	0.336219
			BIAS CORR	0.412359		
			VAR COEFF	0.014821		0.033840
			EFFICIENCY	97.35		97.45
11	10	2	1	0.755014	6	0.468481
			6	0.244986	10	0.418123
			BIAS CORR	0.372250		
			VAR COEFF	0.015386		0.035223
			EFFICIENCY	94.09		93.62
11	10	1	1	1.000000	9	0.799911
			BIAS CORR	0.226261		
			VAR COEFF	0.017805		0.043301

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				81.04		76.1%
				EFFICIENCY		
11	9	9	1	0.601113	1	0.029517
			2	0.092688	2	0.024058
			3	0.063967	3	0.066197
			4	0.049382	4	0.076208
			5	0.040952	5	0.087309
			6	0.034808	6	0.095610
			7	0.031073	7	0.110118
			8	0.026948	8	0.116057
			9	0.059068	9	0.418716
				BIAS CORR		
				VAR COEFF		0.036666
				EFFICIENCY		100.00
				EFF(M/N)		91.74
11	9	8	1	0.601427	2	0.077561
			2	0.092711	3	0.066161
			3	0.064052	4	0.076248
			4	0.049282	5	0.087317
			5	0.041225	6	0.095657
			6	0.034420	7	0.110149
			7	0.046866	8	0.116110
			9	0.070014	9	0.418887
				BIAS CORR		
				VAR COEFF		0.036681
				EFFICIENCY		99.96
11	9	7	1	0.601749	2	0.108273
			2	0.092714	4	0.110358
			3	0.064223	5	0.087053
			4	0.049003	6	0.095962
			5	0.059638	7	0.110073
			7	0.062646	8	0.116265
			9	0.070027	9	0.419146
				BIAS CORR		
				VAR COEFF		0.036707
				EFFICIENCY		99.89
11	9	6	1	0.602316	2	0.108308
			2	0.092697	4	0.154999

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			3	0.088384	6	0.137936
			5	0.083821	7	0.109367
			7	0.062712	8	0.116863
			9	0.070070	9	0.419510
			BIAS CORR	0.419176		
			VAR COEFF	0.014517		0.036751
			EFFICIENCY	99.80		99.77
11	9	5	1	0.603688	3	0.159681
			2	0.122816	5	0.176126
			4	0.103494	7	0.155161
			6	0.088839	8	0.115424
			9	0.081163	9	0.420905
			BIAS CORR	0.417712		
			VAR COEFF	0.014553		0.036828
			EFFICIENCY	99.56		99.56
11	9	4	1	0.645668	3	0.160171
			3	0.161528	5	0.176682
			5	0.111216	7	0.222741
			9	0.081588	9	0.469393
			BIAS CORR	0.417782		
			VAR COEFF	0.014627		0.036966
			EFFICIENCY	99.06		99.19
11	9	3	1	0.684096	4	0.266769
			4	0.210080	7	0.264399
			9	0.105825	9	0.472677
			BIAS CORR	0.412359		
			VAR COEFF	0.014821		0.037222
			EFFICIENCY	97.76		98.51
11	9	2	1	0.755014	6	0.415209
			6	0.244986	9	0.526844
			BIAS CORR	0.372250		
			VAR COEFF	0.015336		0.038129
			EFFICIENCY	94.47		96.16
11	9	1	1	1.000000	9	0.799911
			BIAS CORR	0.226261		
			VAR COEFF	0.017805		0.043301



TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				81.37		84.68
				EFFICIENCY		
11	8	8	1	0.604506	1	0.044373
			2	0.093235	2	0.061044
			3	0.064205	3	0.073549
			4	0.049800	4	0.086919
			5	0.040798	5	0.095256
			6	0.035675	6	0.112982
			7	0.030248	7	0.116060
			8	0.081532	8	0.562751
				BIAS CORR		
				0.406857		
				VAR COEFF		0.041290
				0.014571		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		72.58
				98.76		
11	8	7	1	0.604793	2	0.087439
			2	0.093306	3	0.073511
			3	0.064143	4	0.086969
			4	0.050040	5	0.095268
			5	0.040430	6	0.113042
			6	0.052542	7	0.116097
			8	0.094745	8	0.563015
				BIAS CORR		
				0.406393		
				VAR COEFF		0.041309
				0.014578		
				EFFICIENCY		99.95
				99.95		
11	8	6	1	0.605171	2	0.121573
			2	0.093423	4	0.124878
			3	0.063990	5	0.094980
			4	0.070833	6	0.113354
			6	0.071792	7	0.116017
			8	0.094791	8	0.563495
				BIAS CORR		
				0.406125		
				VAR COEFF		0.041341
				0.014587		
				EFFICIENCY		99.88
				99.88		
11	8	5	1	0.606111	2	0.121623
			2	0.123296	4	0.173602
			4	0.103760	6	0.159209
			6	0.071910	7	0.115252
			8	0.094923	8	0.564571

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		0.041394
				EFFICIENCY		99.75
11	8	4	1	0.647859	2	0.121841
			3	0.140045	4	0.173921
			5	0.102917	6	0.223235
			8	0.109178	8	0.616281
				BIAS CORR		
				VAR COEFF		0.041498
				EFFICIENCY		99.50
11	8	3	1	0.684184	3	0.226544
			4	0.190707	6	0.266527
			8	0.125109	8	0.618963
				BIAS CORR		
				VAR COEFF		0.041678
				EFFICIENCY		99.07
11	8	2	1	0.755014	5	0.378720
			6	0.244986	8	0.675214
				BIAS CORR		
				VAR COEFF		0.042276
				EFFICIENCY		97.67
11	8	1	1	1.000000	8	0.922293
				BIAS CORR		
				VAR COEFF		0.045712
				EFFICIENCY		90.33
11	7	7	1	0.609076	1	0.050769
			2	0.093836	2	0.069041
			3	0.064832	3	0.085285
			4	0.049694	4	0.095683
			5	0.041984	5	0.115888
			6	0.034573	6	0.118546
			7	0.106004	7	0.724924
				BIAS CORR		
				VAR COEFF		0.047252
				EFFICIENCY		100.00
				EFF(M/N)		63.43

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE			
11	7	6	1	0.609401	2	0.099246			
			2	0.093839	3	0.085248			
			3	0.065003	4	0.095745			
			4	0.049414	5	0.115913			
			5	0.060478	6	0.118617			
			7	0.121865	7	0.725294			
			BIAS CORR	0.391159					
			VAR COEFF	0.014689		0.047278			
			EFFICIENCY	99.95		99.95			
			11	7	5	1	0.609977	2	0.138847
2	0.093823	3				0.139721			
3	0.089368	5				0.115600			
5	0.084865	6				0.119031			
7	0.121968	7				0.725803			
BIAS CORR	0.390969								
VAR COEFF	0.014702					0.047321			
EFFICIENCY	99.85					99.86			
11	7	4				1	0.611528	2	0.138948
						2	0.124379	4	0.199082
			4	0.124436	6	0.174828			
			7	0.139656	7	0.726290			
			BIAS CORR	0.390093					
			VAR COEFF	0.014742		0.047399			
			EFFICIENCY	99.58		99.69			
			11	7	3	1	0.655397	3	0.204215
						3	0.184427	5	0.226866
						7	0.160177	7	0.783227
BIAS CORR	0.389098								
VAR COEFF	0.014850					0.047510			
EFFICIENCY	98.86					99.46			
11	7	2	1	0.755014	4	0.341606			
			6	0.244986	7	0.842139			
			BIAS CORR	0.372250					
			VAR COEFF	0.015336		0.047936			
			EFFICIENCY	95.73		98.57			
11	7	1	1	1.000000	7	1.057582			

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.226261	
				VAR COEFF	0.017805	0.050320
				EFFICIENCY	82.45	93.90
11	6	6	1	0.615136	1	0.058902
			2	0.094828	2	0.081093
			3	0.065072	3	0.096423
			4	0.051006	4	0.118274
			5	0.040942	5	0.123872
			6	0.133016	6	0.914846
				BIAS CORR	0.374114	
				VAR COEFF	0.014828	0.055229
				EFFICIENCY	100.00	100.00
				EFF(M/N)	97.05	54.27
11	6	5	1	0.615524	2	0.116148
			2	0.094948	3	0.096386
			3	0.064917	4	0.118358
			4	0.072063	5	0.123906
			6	0.152548	6	0.915700
				BIAS CORR	0.373825	
				VAR COEFF	0.014838	0.055263
				EFFICIENCY	99.93	99.94
11	6	4	1	0.616492	2	0.160940
			2	0.125256	4	0.168103
			4	0.105470	5	0.123558
			6	0.152783	6	0.916500
				BIAS CORR	0.373787	
				VAR COEFF	0.014863	0.055318
				EFFICIENCY	99.77	99.84
11	6	3	1	0.655426	2	0.161064
			3	0.164615	4	0.231574
			6	0.175959	6	0.976713
				BIAS CORR	0.373623	
				VAR COEFF	0.014940	0.055407
				EFFICIENCY	99.25	99.68
11	6	2	1	0.755014	3	0.300836
			6	0.244986	6	1.039021

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR VAR COEFF EFFICIENCY		0.372250 0.015336 96.69 0.055730 99.10
11	6	1	1	1.000000	6	1.216296
				BIAS CORR VAR COEFF EFFICIENCY		0.226261 0.017805 83.28 0.057380 96.25
11	5	5	1	0.623390	1	0.070606
			2	0.095845	2	0.095439
			3	0.066454	3	0.120137
			4	0.050444	4	0.132095
			5	0.163865	5	1.148132
				BIAS CORR VAR COEFF EFFICIENCY EFF(M/N)		0.354278 0.015028 100.00 45.10 95.76
11	5	4	1	0.623991	2	0.137474
			2	0.095830	3	0.120111
			3	0.091329	4	0.132207
			5	0.188850	5	1.148916
				BIAS CORR VAR COEFF EFFICIENCY		0.354052 0.015042 99.90 0.066494 99.93
11	5	3	1	0.666637	2	0.193340
			3	0.143783	4	0.194235
			5	0.189581	5	1.150017
				BIAS CORR VAR COEFF EFFICIENCY		0.354599 0.015106 99.42 0.066579 99.80
11	5	2	1	0.733914	3	0.284691
			5	0.266086	5	1.218696
				BIAS CORR VAR COEFF EFFICIENCY		0.354278 0.015355 97.87 0.066766 99.52
11	5	1	1	1.000000	5	1.413682

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.226261		
				0.017805		0.067935
				84.40		97.81
11	4	4	1	0.634842	1	0.087222
			2	0.097772	2	0.120969
			3	0.066800	3	0.143046
			4	0.200586	4	1.453433
				BIAS CORR		
				0.331363		
				0.015308		0.083370
				100.00		100.00
				94.01		35.95
11	4	3	1	0.635869	2	0.172927
			2	0.128965	3	0.143032
			4	0.235166	4	1.454686
				BIAS CORR		
				0.331257		
				0.015334		0.083445
				99.83		99.91
11	4	2	1	0.714939	2	0.239506
			4	0.285461	4	1.530074
				BIAS CORR		
				0.331904		
				0.015489		0.083566
				98.83		99.77
11	4	1	1	1.000000	4	1.676897
				BIAS CORR		
				0.226261		
				0.017805		0.084361
				85.98		98.83
11	3	3	1	0.651925	1	0.115768
			2	0.099801	2	0.156379
			3	0.248274	3	1.891995
				BIAS CORR		
				0.304274		
				0.015723		0.111830
				100.00		100.00
				91.52		26.80
11	3	2	1	0.696458	2	0.225402
			3	0.503542	3	1.893979

TABLE 11

Coefficients for Estimation of  
Location and Scale Parameters of a  
Weibull Population from L-Order Statistics  
(Sample Sizes 11 to 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		0.111967
				EFFICIENCY	99.56	99.88
11	3	1	1	1.000000	3	2.064059
				BIAS CORR		
				VAR COEFF		0.112479
				EFFICIENCY	88.31	99.47
	2	2	1	0.679693	1	0.168876
			2	0.320307	2	2.630952
				BIAS CORR		
				VAR COEFF		0.169983
				EFFICIENCY	100.00	100.00
				EFF(M/N)	87.71	17.67
11	2	1	1	1.000000	2	2.735443
				BIAS CORR		
				VAR COEFF		0.169864
				EFFICIENCY	92.19	99.83
11	1	1	1	1.000000	1	4.419674
				BIAS CORR		
				VAR COEFF		0.347746
				EFFICIENCY	100.00	100.00
				EFF(M/N)	80.82	8.62
12	12	12	1	0.940878	1	0.028595
			2	0.089869	2	0.034094
			3	0.061728	3	0.047945
			4	0.047948	4	0.055098
			5	0.039299	5	0.062239
			6	0.033917	6	0.069274
			7	0.029581	7	0.076437
			8	0.026288	8	0.084027
			9	0.023764	9	0.092381
			10	0.021491	10	0.102271
			11	0.019377	11	0.115105
			12	0.016659	12	0.145445
				BIAS CORR		
				VAR COEFF		0.027457

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		100.00
12	12	11	1	0.591116	2	0.056200
			2	0.089841	3	0.047511
			3	0.061904	4	0.055124
			4	0.047287	5	0.062224
			5	0.039748	6	0.069308
			6	0.032943	7	0.076433
			7	0.044481	8	0.084064
			9	0.035323	9	0.092396
			10	0.021249	10	0.102300
			11	0.019455	11	0.115135
			12	0.016653	12	0.145483
				BIAS CORR		
				VAR COEFF		0.027459
				EFFICIENCY		99.97
12	12	12	1	0.591332	2	0.078042
			2	0.090043	4	0.079873
			3	0.061483	5	0.061957
			4	0.048129	6	0.069614
			5	0.038519	7	0.076216
			6	0.049793	8	0.084295
			8	0.053593	9	0.092307
			10	0.031181	10	0.102391
			11	0.019244	11	0.115172
			12	0.016682	12	0.145545
				BIAS CORR		
				VAR COEFF		0.027471
				EFFICIENCY		99.93
12	12	9	1	0.591696	2	0.078029
			2	0.089837	4	0.111143
			3	0.062213	6	0.100117
			4	0.046832	7	0.075355
			5	0.057161	8	0.085035
			7	0.059986	9	0.091990
			9	0.048663	10	0.102615
			11	0.026981	11	0.115204
			12	0.016632	12	0.145646



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		0.027489
				EFFICIENCY		99.86
12	12	8	1	0.592188	2	0.078054
			2	0.089804	4	0.111241
			3	0.085048	6	0.140689
			5	0.080567	8	0.119964
			7	0.060061	9	0.091063
			9	0.048702	10	0.103184
			11	0.026991	11	0.115247
			12	0.016643	12	0.145827
				BIAS CORR		
				VAR COEFF		0.027523
				EFFICIENCY		99.74
12	12	7	1	0.592985	3	0.115197
			2	0.118612	5	0.126157
			4	0.099601	7	0.156332
			6	0.068583	9	0.130065
			8	0.053782	10	0.101568
			10	0.044931	11	0.115909
			12	0.021505	12	0.146047
				BIAS CORR		
				VAR COEFF		0.027573
				EFFICIENCY		99.56
12	12	6	1	0.594451	3	0.144637
			2	0.118923	6	0.169323
			4	0.118226	8	0.173898
			7	0.092437	10	0.140895
			10	0.054397	11	0.115446
			12	0.021566	12	0.146641
				BIAS CORR		
				VAR COEFF		0.027668
				EFFICIENCY		99.22
12	12	5	1	0.597046	4	0.191147
			2	0.119439	7	0.187770
			4	0.118610	9	0.195473
			7	0.109231	11	0.153340

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			11	0.055675	12	0.147329
			BIAS CORR	0.416303		
			VAR COEFF	0.013072		0.027845
			EFFICIENCY	98.96		98.59
12	12	4	1	0.638468	5	0.290101
			3	0.156686	9	0.260098
			6	0.123525	11	0.155344
			10	0.081321	12	0.149154
			BIAS CORR	0.409082		
			VAR COEFF	0.013153		0.028202
			EFFICIENCY	98.35		97.34
12	12	3	1	0.676013	6	0.358977
			4	0.202067	10	0.295469
			9	0.121920	12	0.182982
			BIAS CORR	0.396821		
			VAR COEFF	0.013334		0.028901
			EFFICIENCY	97.01		94.99
12	12	2	1	0.745484	8	0.550167
			6	0.254516	12	0.241439
			BIAS CORR	0.355904		
			VAR COEFF	0.013820		0.031257
			EFFICIENCY	93.60		87.83
12	12	1	1	1.000000	10	0.774875
			BIAS CORR	0.215286		
			VAR COEFF	0.016120		0.039737
			EFFICIENCY	80.25		69.08
12	11	11	1	0.592253	1	0.031191
			2	0.090074	2	0.042618
			3	0.061875	3	0.051910
			4	0.047638	4	0.059921
			5	0.039410	5	0.068097
			6	0.033554	6	0.075194
			7	0.029663	7	0.083531
			8	0.026264	8	0.090881
			9	0.023921	9	0.101714
			10	0.021354	10	0.109813

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			11	0.033992	11	0.264102
			BIAS CORR	0.423759		
			VAR COEFF	0.012966		0.029953
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.77		91.65
12	11	10	1	0.592491	2	0.061279
			2	0.090046	3	0.051875
			3	0.062051	4	0.059951
			4	0.047378	5	0.068086
			5	0.039859	6	0.075233
			6	0.032980	7	0.083529
			7	0.044550	8	0.090923
			9	0.035464	9	0.101733
			10	0.021112	10	0.109846
			11	0.034068	11	0.264177
			BIAS CORR	0.423348		
			VAR COEFF	0.012971		0.029962
			EFFICIENCY	99.96		99.97
12	11	9	1	0.592711	2	0.085130
			2	0.090250	4	0.086976
			3	0.061630	5	0.067798
			4	0.048221	6	0.075570
			5	0.038628	7	0.083295
			6	0.049876	8	0.091179
			8	0.053696	9	0.101640
			10	0.031106	10	0.109949
			11	0.033882	11	0.264287
			BIAS CORR	0.422849		
			VAR COEFF	0.012976		0.029976
			EFFICIENCY	99.92		99.93
12	11	8	1	0.593068	2	0.085121
			2	0.090041	4	0.121202
			3	0.062359	6	0.108956
			4	0.046922	7	0.082359
			5	0.057291	8	0.091994
			7	0.060073	9	0.101300
			9	0.048719	10	0.110200
			11	0.041527	11	0.264436

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.422175	
				VAR COEFF	0.012983	0.029998
				EFFICIENCY	99.87	99.85
12	11	7	1	0.593561	2	0.085159
			2	0.090009	4	0.121323
			3	0.085238	6	0.153315
			5	0.080738	8	0.130183
			7	0.060148	9	0.100300
			9	0.048758	10	0.110832
			11	0.041547	11	0.264685
				BIAS CORR	0.422085	
				VAR COEFF	0.012994	0.030038
				EFFICIENCY	99.79	99.72
12	11	6	1	0.594672	3	0.125645
			2	0.118970	5	0.137591
			4	0.099889	7	0.170134
			6	0.084546	9	0.142531
			9	0.060220	10	0.109086
			11	0.041703	11	0.265644
				BIAS CORR	0.421204	
				VAR COEFF	0.013021	0.030096
				EFFICIENCY	99.58	99.53
12	11	5	1	0.597046	3	0.157873
			2	0.119439	6	0.184632
			4	0.118610	8	0.189679
			7	0.109231	10	0.152436
			11	0.055675	11	0.265817
				BIAS CORR	0.416303	
				VAR COEFF	0.013072	0.030213
				EFFICIENCY	99.19	99.14
12	11	4	1	0.638468	4	0.208588
			3	0.156686	7	0.204583
			6	0.123525	9	0.212959
			10	0.081321	11	0.307308
				BIAS CORR	0.409082	
				VAR COEFF	0.013153	0.030415
				EFFICIENCY	98.58	98.48

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE	
12	11	3	1	0.676013	5	0.316764	
			4	0.202067	9	0.283653	
			9	0.121920	11	0.311572	
				BIAS CORR	0.396821		
				VAR COEFF	0.013334		0.030839
				EFFICIENCY	97.24		97.13
12	11	2	1	0.745484	7	0.474061	
			6	0.254516	11	0.387974	
				BIAS CORR	0.355904		
				VAR COEFF	0.013820		0.032132
				EFFICIENCY	93.82		93.22
12	11	1	1	1.000000	10	0.774875	
				BIAS CORR	0.215286		
				VAR COEFF	0.016120		0.039737
				EFFICIENCY	80.43		75.38
12	10	10	1	0.594327	1	0.034282	
			2	0.090401	2	0.046995	
			3	0.062030	3	0.056604	
			4	0.047914	4	0.066874	
			5	0.039358	5	0.073324	
			6	0.033832	6	0.084121	
			7	0.029419	7	0.089474	
			8	0.026797	8	0.103781	
			9	0.023415	9	0.106921	
			10	0.052447	10	0.385171	
				BIAS CORR	0.413442		
				VAR COEFF	0.013011		0.032967
				EFFICIENCY	100.00		100.00
				EFF(M/N)	99.42		83.27
12	10	9	1	0.594544	2	0.067507	
			2	0.090500	3	0.056567	
			3	0.061878	4	0.066908	
			4	0.048276	5	0.073314	
			5	0.038844	6	0.084167	
			6	0.049912	7	0.089473	
			7	0.040422	8	0.103831	
			8	0.040422	8	0.103831	

**TABLE II**  
**COEFFICIENTS FOR ESTIMATION OF**  
**LOCATION AND SCALE PARAMETERS OF A**  
**WEIBULL POPULATION FROM L-ORDER STATISTICS**  
**(SAMPLE SIZES 11 TO 13)**  
**SHAPE PARAMETER = 1.75**

N	M	L	I	LOCATION	I	SCALE
			9	0.023016	9	0.106944
			10	0.052609	10	0.385294
			BIAS CORR	0.413135		
			VAR COEFF	0.013016		0.032977
			EFFICIENCY	99.96		99.97
12	10	3	1	0.594772	2	0.093520
			2	0.090573	4	0.096382
			3	0.061787	5	0.073002
			4	0.048489	6	0.084539
			5	0.038585	7	0.089221
			6	0.050050	8	0.104116
			8	0.053850	9	0.106844
			10	0.061895	10	0.385531
			BIAS CORR	0.412579		
			VAR COEFF	0.013022		0.032914
			EFFICIENCY	99.92		99.92
12	10	7	1	0.595081	2	0.093515
			2	0.090695	4	0.133243
			3	0.061603	6	0.120494
			4	0.068068	7	0.088216
			6	0.068738	8	0.105002
			8	0.053910	9	0.106481
			10	0.061907	10	0.385969
			BIAS CORR	0.412409		
			VAR COEFF	0.013029		0.033020
			EFFICIENCY	99.87		99.84
12	10	6	1	0.595916	2	0.093564
			2	0.119187	4	0.133384
			4	0.100072	6	0.168023
			6	0.068843	8	0.145922
			8	0.054001	9	0.105416
			10	0.061982	10	0.386924
			BIAS CORR	0.412496		
			VAR COEFF	0.013048		0.033065
			EFFICIENCY	99.72		99.70
12	10	5	1	0.597399	3	0.138340
			2	0.119500	5	0.151079

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			4	0.118787	7	0.187650
			7	0.092766	9	0.153585
			10	0.071546	10	0.386152
			BIAS CORR	0.410530		
			VAR COEFF	0.013080		0.033147
			EFFICIENCY	99.47		99.46
12	10	4	1	0.638468	3	0.173438
			3	0.156686	6	0.202580
			6	0.123525	8	0.208564
			10	0.081321	10	0.431957
			BIAS CORR	0.409082		
			VAR COEFF	0.013153		0.033268
			EFFICIENCY	98.92		99.10
12	10	3	1	0.676013	5	0.287232
			4	0.202067	8	0.247939
			9	0.121920	10	0.435858
			BIAS CORR	0.396821		
			VAR COEFF	0.013334		0.033562
			EFFICIENCY	97.58		98.23
12	10	2	1	0.745484	6	0.426174
			6	0.254516	10	0.521331
			BIAS CORR	0.355904		
			VAR COEFF	0.013820		0.034414
			EFFICIENCY	94.15		95.79
12	10	1	1	1.000000	10	0.774875
			BIAS CORR	0.215286		
			VAR COEFF	0.016120		0.039737
			EFFICIENCY	80.72		82.96
12	9	9	1	0.597156	1	0.038155
			2	0.090759	2	0.051678
			3	0.062507	3	0.064419
			4	0.047742	4	0.071117
			5	0.040004	5	0.085261
			6	0.033331	6	0.088161
			7	0.030576	7	0.107279
			8	0.025721	8	0.105623

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			9	0.072204	9	0.514531
			BIAS CORR	0.401629		
			VAR COEFF	0.013073		0.036659
			EFFICIENCY	100.00		100.00
			EFF(M/N)	98.95		74.88
12	9	5	1	0.597385	2	0.074509
			2	0.090731	3	0.064380
			3	0.062678	4	0.071157
			4	0.047488	5	0.085254
			5	0.040441	6	0.088214
			6	0.032771	7	0.107284
			7	0.045154	8	0.105679
			9	0.083352	9	0.514701
			BIAS CORR	0.401241		
			VAR COEFF	0.013078		0.036672
			EFFICIENCY	99.96		99.96
12	9	7	1	0.597649	2	0.104123
			2	0.090700	4	0.104708
			3	0.062893	5	0.084908
			4	0.047136	6	0.088640
			5	0.057681	7	0.107010
			7	0.060560	8	0.106005
			9	0.083380	9	0.514873
			BIAS CORR	0.401014		
			VAR COEFF	0.013083		0.036693
			EFFICIENCY	99.92		99.91
12	9	6	1	0.598147	2	0.104131
			2	0.090668	4	0.147599
			3	0.085877	6	0.130472
			5	0.081236	7	0.105865
			7	0.060635	8	0.107038
			9	0.083436	9	0.514990
			BIAS CORR	0.400914		
			VAR COEFF	0.013094		0.036728
			EFFICIENCY	99.84		99.81
12	9	5	1	0.599291	3	0.153106
			2	0.119881	5	0.166994



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			4	0.100587	7	0.150289
			6	0.085082	8	0.103929
			9	0.095159	9	0.517064
			BIAS CORR	0.399941		
			VAR COEFF	0.013122		0.036781
			EFFICIENCY	99.63		99.67
12	9	4	1	0.639895	3	0.153341
			3	0.157183	5	0.167309
			6	0.107230	7	0.208483
			9	0.095692	9	0.563181
			BIAS CORR	0.400192		
			VAR COEFF	0.013183		0.036859
			EFFICIENCY	99.17		99.46
12	9	3	1	0.676013	4	0.252694
			4	0.202067	7	0.249354
			9	0.121920	9	0.566287
			BIAS CORR	0.396821		
			VAR COEFF	0.013334		0.037062
			EFFICIENCY	98.04		98.91
12	9	2	1	0.745484	5	0.385844
			6	0.254516	9	0.658756
			BIAS CORR	0.355904		
			VAR COEFF	0.013820		0.037692
			EFFICIENCY	94.60		97.26
12	9	1	1	1.000000	9	0.885768
			BIAS CORR	0.215286		
			VAR COEFF	0.016120		0.041248
			EFFICIENCY	81.10		88.87
12	8	8	1	0.600837	1	0.042675
			2	0.091453	2	0.059228
			3	0.062463	3	0.069097
			4	0.048692	4	0.085296
			5	0.039228	5	0.087848
			6	0.034993	6	0.110889
			7	0.028958	7	0.106390
			8	0.093375	8	0.657259

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.388308	
				VAR COEFF	0.013155	0.041285
				EFFICIENCY	100.00	100.00
				EFF(M/N)	98.34	66.49
12	8	7	1	0.601046	2	0.084767
			2	0.091549	3	0.069055
			3	0.062315	4	0.085346
			4	0.049044	5	0.087842
			5	0.038728	6	0.110956
			6	0.050787	7	0.106395
			8	0.106531	8	0.657525
				BIAS CORR	0.388015	
				VAR COEFF	0.013159	0.041301
				EFFICIENCY	99.96	99.96
12	8	6	1	0.601357	2	0.116535
			2	0.091672	4	0.121339
			3	0.062129	5	0.087471
			4	0.068695	6	0.111421
			6	0.069544	7	0.106111
			8	0.106602	8	0.658073
				BIAS CORR	0.387839	
				VAR COEFF	0.013167	0.041325
				EFFICIENCY	99.91	99.90
12	8	5	1	0.602207	2	0.116547
			2	0.120409	4	0.165529
			4	0.100975	6	0.154521
			6	0.069651	7	0.104920
			8	0.106758	8	0.659266
				BIAS CORR	0.387898	
				VAR COEFF	0.013187	0.041362
				EFFICIENCY	99.76	99.81
12	8	4	1	0.604523	2	0.116635
			2	0.120858	4	0.165737
			4	0.137896	6	0.211104
			8	0.136723	8	0.707896
				BIAS CORR	0.385650	
				VAR COEFF	0.013238	0.041427

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	99.37	99.66
12	8	3	1	0.648271	3	0.215149
			3	0.196582	6	0.253575
			8	0.155147	8	0.710932
			BIAS CORR	0.384044		
			VAR COEFF	0.013357		0.041572
			EFFICIENCY	98.48		99.31
12	8	2	1	0.745484	5	0.358447
			6	0.254916	8	0.769866
			BIAS CORR	0.355904		
			VAR COEFF	0.013820		0.042037
			EFFICIENCY	95.19		98.21
12	8	1	1	1.000000	6	1.005195
			BIAS CORR	0.215286		
			VAR COEFF	0.016120		0.044577
			EFFICIENCY	81.61		92.70
12	7	7	1	0.605708	1	0.049068
			2	0.091437	2	0.065758
			3	0.063469	3	0.083093
			4	0.048036	4	0.089242
			5	0.041169	5	0.113521
			6	0.033139	6	0.109839
			7	0.116941	7	0.819790
			BIAS CORR	0.373362		
			VAR COEFF	0.013261		0.047248
			EFFICIENCY	100.00		100.00
			EFF(M/N)	97.95		98.10
12	7	6	1	0.605978	2	0.095128
			2	0.091906	3	0.083091
			3	0.063687	4	0.089301
			4	0.047680	5	0.113525
			5	0.034604	6	0.109916
			7	0.111149	7	0.820129
			BIAS CORR	0.375124		
			VAR COEFF	0.013266		0.047269
			EFFICIENCY	99.96		99.95

TABLE 14

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE			
12	7	5	1	0.606487	2	0.133352			
			2	0.091874	4	0.132600			
			3	0.086937	5	0.113105			
			4	0.082431	6	0.110474			
			5	0.132270	7	0.820489			
			BIAS CORR			0.373004			
			VAR COEFF			0.013277		0.047305	
EFFICIENCY			99.87		99.88				
12	7	4	1	0.607863	2	0.133407			
			2	0.121532	4	0.189797			
			4	0.120505	6	0.166233			
			7	0.150099	7	0.820638			
			BIAS CORR			0.372376			
			VAR COEFF			0.013309		0.047367	
			EFFICIENCY			99.63		99.75	
12	7	3	1	0.650141	3	0.195722			
			3	0.178876	5	0.215864			
			7	0.170983	7	0.874870			
			BIAS CORR			0.371860			
			VAR COEFF			0.013396		0.047442	
			EFFICIENCY			98.99		99.59	
			12	7	2	1	0.745484	4	0.324533
6	0.254516	7				0.932604			
BIAS CORR						0.355904			
VAR COEFF						0.013820		0.047779	
EFFICIENCY						95.95		98.89	
12	7	1				1	1.000000	7	1.140823
						BIAS CORR			0.215286
			VAR COEFF			0.016120		0.049594	
			EFFICIENCY			82.26		95.27	
			12	6	6	1	0.611987	1	0.056639
						2	0.093089	2	0.078376
						3	0.063422	3	0.091309
4	0.049860	4				0.115037			
5	0.039577	5				0.116215			

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			6	0.142065	6	1.011825
			BIAS CORR	0.356536		
			VAR COEFF	0.013400		0.055225
			EFFICIENCY	100.00		100.00
			EFF(M/N)	96.54		49.71
12	6	5	1	0.612312	2	0.112287
			2	0.093216	3	0.091265
			3	0.063233	4	0.115117
			4	0.069943	5	0.116221
			6	0.161296	6	1.012343
			BIAS CORR	0.356335		
			VAR COEFF	0.013407		0.055254
			EFFICIENCY	99.94		99.95
12	6	4	1	0.613194	2	0.154301
			2	0.122466	4	0.162714
			4	0.102798	5	0.115760
			6	0.161542	6	1.013393
			BIAS CORR	0.356347		
			VAR COEFF	0.013428		0.055297
			EFFICIENCY	99.79		99.87
12	6	3	1	0.654868	2	0.154361
			3	0.160426	4	0.221259
			6	0.184707	6	1.070629
			BIAS CORR	0.356355		
			VAR COEFF	0.013493		0.055362
			EFFICIENCY	99.31		99.75
12	6	2	1	0.745484	3	0.286509
			6	0.254516	6	1.131361
			BIAS CORR	0.355904		
			VAR COEFF	0.013820		0.055619
			EFFICIENCY	96.96		99.29
12	6	1	1	1.000000	6	1.302462
			BIAS CORR	0.215286		
			VAR COEFF	0.016120		0.056916
			EFFICIENCY	83.13		97.03

**TABLE II**  
**COEFFICIENTS FOR ESTIMATION OF**  
**LOCATION AND SCALE PARAMETERS OF A**  
**WEIBULL POPULATION FROM L-ORDER STATISTICS**  
**(SAMPLE SIZES 11 TO 13)**

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE			
12	5	5	1	0.620491	1	0.068089			
			2	0.094034	2	0.091339			
			3	0.065042	3	0.116092			
			4	0.049003	4	0.125300			
			5	0.171430	5	1.249499			
			BIAS CORR	0.337471					
			VAR COEFF	0.013583		0.066442			
			EFFICIENCY	100.00		100.00			
			EFF(M/N)	95.21		41.32			
			12	5	4	1	0.621029	2	0.132116
2	0.094004	3				0.116054			
3	0.088938	4				0.125403			
5	0.196029	5				1.250205			
BIAS CORR	0.337304								
VAR COEFF	0.013598					0.066483			
EFFICIENCY	99.92					99.94			
12	5	3				1	0.662469	2	0.185584
						3	0.140772	4	0.185958
						5	0.196759	5	1.251114
			BIAS CORR	0.337859					
			VAR COEFF	0.013652		0.066553			
			EFFICIENCY	99.52		99.83			
			12	5	2	1	0.726736	3	0.273276
						5	0.273264	5	1.316869
						BIAS CORR	0.337966		
						VAR COEFF	0.013860		0.066701
EFFICIENCY	98.02					99.61			
12	5	1				1	1.000000	5	1.505510
						BIAS CORR	0.215286		
						VAR COEFF	0.016120		0.067637
						EFFICIENCY	84.28		98.23
						12	4	4	1
			2	0.096041	2				0.116546
			3	0.065284	3				0.136725
			4	0.226534	4				1.562605
			BIAS CORR	0.315503					

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF		0.083368
				EFFICIENCY		100.00
				EFF(M/N)		32.93
12	4	3	1	0.633082	2	0.166834
			2	0.126246	3	0.136692
			4	0.240672	4	1.563733
				BIAS CORR		0.315452
				VAR COEFF		0.013867
				EFFICIENCY		99.84
12	4	2	1	0.709268	2	0.229847
			4	0.290732	4	1.636298
				BIAS CORR		0.316202
				VAR COEFF		0.013998
				EFFICIENCY		98.90
12	4	1	1	1.000000	4	1.778107
				BIAS CORR		0.215286
				VAR COEFF		0.016120
				EFFICIENCY		85.89
12	3	3	1	0.649425	1	0.111543
			2	0.098057	2	0.150145
			3	0.252518	3	2.014975
				BIAS CORR		0.289619
				VAR COEFF		0.014226
				EFFICIENCY		100.00
				EFF(M/N)		24.55
12	3	2	1	0.692769	2	0.217026
			3	0.307231	3	2.016734
				BIAS CORR		0.290013
				VAR COEFF		0.014285
				EFFICIENCY		99.59
12	3	1	1	1.000000	3	2.180972
				BIAS CORR		0.215286
				VAR COEFF		0.016120
				EFFICIENCY		88.25

TABLE 14  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE	
12	2	2	1	0.677358	1	0.162533	
			2	0.322642	2	2.781137	
				BIAS CORR	0.257777		
				VAR COEFF	0.014850		0.169581
				EFFICIENCY	100.00		100.00
				EFF(M/N)	87.11		16.19
12	2	1	1	1.000000	2	2.881980	
				BIAS CORR	0.215286		
				VAR COEFF	0.016120		0.169816
				EFFICIENCY	92.12		99.86
12	1	1	1	1.000000	1	4.644978	
				BIAS CORR	0.215286		
				VAR COEFF	0.016120		0.347796
				EFFICIENCY	100.00		100.00
				EFF(M/N)	80.25		7.89
13	13	13	1	0.585432	1	0.025534	
			2	0.087973	2	0.034832	
			3	0.060195	3	0.042273	
			4	0.046184	4	0.048868	
			5	0.038154	5	0.055059	
			6	0.032368	6	0.061064	
			7	0.028741	7	0.067121	
			8	0.025365	8	0.073354	
			9	0.023139	9	0.080045	
			10	0.020948	10	0.087462	
			11	0.019145	11	0.096321	
			12	0.017348	12	0.107880	
			13	0.014998	13	0.133528	
				BIAS CORR	0.423932		
	VAR COEFF	0.011728		0.025324			
	EFFICIENCY	100.00		100.00			
	EFF(M/N)	100.00		100.00			
13	13	12	1	0.585633	2	0.050185	
			2	0.087850	3	0.052240	
			3	0.060592	4	0.048895	
			4	0.045561	5	0.055034	
			5	0.038993	6	0.061112	



TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			6	0.031479	7	0.067085
			7	0.042881	8	0.073410
			9	0.034886	9	0.080033
			10	0.020438	10	0.087492
			11	0.019379	11	0.096342
			12	0.017302	12	0.107902
			13	0.015005	13	0.135556
			BIAS CORR	0.423660		
			VAR COEFF	0.011732		0.025329
			EFFICIENCY	99.97		99.98
13	13	11	1	0.585740	2	0.069458
			2	0.088276	4	0.071105
			3	0.059551	5	0.054705
			4	0.047392	6	0.061550
			5	0.036673	7	0.066604
			6	0.048248	8	0.073965
			8	0.051697	9	0.079625
			10	0.031261	10	0.087756
			11	0.018685	11	0.096288
			12	0.017485	12	0.107953
			13	0.014992	13	0.135597
			BIAS CORR	0.423371		
			VAR COEFF	0.011736		0.025337
			EFFICIENCY	99.94		99.95
13	13	10	1	0.586060	2	0.069433
			2	0.087733	4	0.098399
			3	0.061123	6	0.089010
			4	0.044673	7	0.065348
			5	0.055671	8	0.075333
			7	0.057911	9	0.078532
			9	0.046957	10	0.088540
			11	0.027693	11	0.096008
			12	0.017145	12	0.108081
			13	0.015034	13	0.135656
			BIAS CORR	0.423014		
			VAR COEFF	0.011740		0.025349
			EFFICIENCY	99.90		99.90
13	13	9	1	0.586236	2	0.069398

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			2	0.088475	4	0.098532
			3	0.059249	6	0.123446
			4	0.065897	8	0.106744
			6	0.066249	9	0.076914
			8	0.051794	10	0.089667
			10	0.043069	11	0.095653
			12	0.024061	12	0.108271
			13	0.014969	13	0.135748
			BIAS CORR	0.422439		
			VAR COEFF	0.011746		0.025369
			EFFICIENCY	99.85		99.82
13	13	8	1	0.586929	3	0.102434
			2	0.087742	5	0.111298
			3	0.082765	7	0.136275
			5	0.078258	9	0.115366
			7	0.057989	10	0.084846
			9	0.047105	11	0.097846
			11	0.037932	12	0.107906
			13	0.019281	13	0.135956
			BIAS CORR	0.421139		
			VAR COEFF	0.011757		0.025400
			EFFICIENCY	99.76		99.70
13	13	7	1	0.587615	3	0.127544
			2	0.115880	6	0.149468
			4	0.097021	8	0.150064
			6	0.066388	10	0.123673
			8	0.065580	11	0.095225
			11	0.047955	12	0.108871
			13	0.019361	13	0.136177
			BIAS CORR	0.420050		
			VAR COEFF	0.011779		0.025455
			EFFICIENCY	99.57		99.48
13	13	6	1	0.589411	4	0.167943
			2	0.116252	7	0.164608
			4	0.097121	9	0.165697
			6	0.081517	11	0.132986
			9	0.072065	12	0.108169
			12	0.043634	13	0.136793

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		0.025548
				EFFICIENCY		99.12
13	13	5	1	0.628443	4	0.203633
			3	0.152066	8	0.207003
			6	0.103026	10	0.185616
			9	0.072721	12	0.143845
			12	0.043745	13	0.137483
				BIAS CORR		
				VAR COEFF		0.025731
				EFFICIENCY		98.42
13	13	4	1	0.632275	6	0.306888
			3	0.170898	10	0.246921
			7	0.124616	12	0.145919
			11	0.072210	13	0.139265
				BIAS CORR		
				VAR COEFF		0.026076
				EFFICIENCY		97.11
13	13	3	1	0.669294	7	0.370771
			4	0.211949	11	0.279101
			10	0.118757	13	0.171011
				BIAS CORR		
				VAR COEFF		0.026740
				EFFICIENCY		94.70
13	13	2	1	0.737756	9	0.548394
			6	0.262244	13	0.226163
				BIAS CORR		
				VAR COEFF		0.028988
				EFFICIENCY		87.36
13	13	1	1	1.000000	11	0.753597
				BIAS CORR		
				VAR COEFF		0.036817
				EFFICIENCY		68.78
13	12	12	1	0.586626	1	0.027653
			2	0.088153	2	0.037753

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			3	0.060305	3	0.045674
			4	0.046304	4	0.053192
			5	0.038187	5	0.059121
			6	0.032495	6	0.066756
			7	0.028725	7	0.071996
			8	0.025455	8	0.079847
			9	0.023089	9	0.085772
			10	0.021108	10	0.095916
			11	0.018996	11	0.102535
			12	0.030557	12	0.245604
			BIAS CORR	0.416252		
			VAR COEFF	0.011752		0.027438
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.80		92.29
13	12	11	1	0.586828	2	0.054381
			2	0.088031	3	0.045639
			3	0.060704	4	0.053222
			4	0.045678	5	0.059096
			5	0.039019	6	0.066809
			6	0.031603	7	0.071958
			7	0.042915	8	0.079910
			9	0.034877	9	0.085760
			10	0.020597	10	0.095950
			11	0.019231	11	0.102553
			12	0.030517	12	0.245660
			BIAS CORR	0.415976		
			VAR COEFF	0.011756		0.027444
			EFFICIENCY	99.97		99.98
13	12	10	1	0.586933	2	0.075206
			2	0.088457	4	0.077222
			3	0.059661	5	0.058741
			4	0.047510	6	0.067284
			5	0.036699	7	0.071440
			6	0.048365	8	0.080512
			8	0.051751	9	0.085321
			10	0.031399	10	0.096237
			11	0.018537	11	0.102497
			12	0.030689	12	0.245760
			BIAS CORR	0.415697		

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				0.011739		0.027454
				99.94		99.94
13	12	9	1	0.587260	2	0.075182
			2	0.087913	4	0.106533
			3	0.061237	6	0.096774
			4	0.044786	7	0.070094
			5	0.055765	8	0.081983
			7	0.058004	9	0.084150
			9	0.047041	10	0.097083
			11	0.027609	11	0.102199
			12	0.030385	12	0.245961
				BIAS CORR		
				0.415311		
				VAR COEFF		0.027468
				EFFICIENCY		99.89
13	12	8	1	0.587426	2	0.075149
			2	0.088655	4	0.106682
			3	0.059360	6	0.133718
			4	0.066027	8	0.115682
			6	0.066378	9	0.082418
			8	0.051848	10	0.098299
			10	0.043114	11	0.101824
			12	0.037192	12	0.246266
				BIAS CORR		
				0.414781		
				VAR COEFF		0.027491
				EFFICIENCY		99.81
13	12	7	1	0.588338	3	0.111008
			2	0.088138	5	0.120516
			3	0.082958	7	0.147446
			5	0.078287	9	0.124252
			7	0.072233	10	0.093093
			10	0.052671	11	0.104213
			12	0.037375	12	0.246106
				BIAS CORR		
				0.413841		
				VAR COEFF		0.027528
				EFFICIENCY		99.67
13	12	6	1	0.589411	3	0.138114
			2	0.116252	6	0.161942

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			4	0.097121	8	0.162144
			6	0.081517	10	0.134778
			9	0.072065	11	0.101389
			12	0.043634	12	0.247382
			BIAS CORR	0.412386		
			VAR COEFF	0.011810		0.027590
			EFFICIENCY	99.51		99.45
12	12	5	1	0.628443	4	0.182095
			3	0.152066	7	0.178183
			6	0.103026	9	0.179563
			9	0.072721	11	0.142827
			12	0.043745	12	0.247315
			BIAS CORR	0.412864		
			VAR COEFF	0.011860		0.027703
			EFFICIENCY	99.09		99.04
12	12	4	1	0.632275	4	0.220723
			3	0.170898	8	0.223990
			7	0.124616	10	0.200909
			11	0.072210	12	0.286085
			BIAS CORR	0.402627		
			VAR COEFF	0.011934		0.027909
			EFFICIENCY	98.48		98.31
13	12	3	1	0.669294	6	0.332791
			4	0.211949	10	0.267481
			10	0.118757	12	0.290327
			BIAS CORR	0.389524		
			VAR COEFF	0.012108		0.028314
			EFFICIENCY	97.06		96.91
13	12	2	1	0.737756	8	0.477720
			6	0.262244	12	0.362754
			BIAS CORR	0.341217		
			VAR COEFF	0.012565		0.029593
			EFFICIENCY	93.53		92.72
13	12	1	1	1.000000	11	0.753597
			BIAS CORR	0.205661		
			VAR COEFF	0.014711		0.036817

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	79.89	74.53
13	11	11	1	0.588408	1	0.030194
			2	0.088393	2	0.040955
			3	0.060576	3	0.050624
			4	0.046213	4	0.056034
			5	0.038664	5	0.067678
			6	0.032142	6	0.068909
			7	0.029175	7	0.081749
			8	0.025114	8	0.083489
			9	0.023717	9	0.098496
			10	0.020517	10	0.098949
			11	0.047081	11	0.357013
				BIAS CORR	0.407066	
				VAR COEFF	0.011788	0.029946
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.49	84.57
13	11	10	1	0.589706	2	0.059112
			2	0.082272	3	0.050587
			3	0.060970	4	0.056068
			4	0.045596	5	0.067653
			5	0.039484	6	0.068968
			6	0.031262	7	0.081710
			7	0.043175	8	0.083559
			9	0.035348	9	0.098486
			10	0.020013	10	0.098987
			11	0.047275	11	0.357096
				BIAS CORR	0.406805	
				VAR COEFF	0.011791	0.029953
				EFFICIENCY	99.97	99.98
13	11	9	1	0.588800	2	0.082198
			2	0.088232	4	0.082672
			3	0.061205	5	0.067263
			4	0.045168	6	0.069495
			5	0.040096	7	0.081140
			6	0.030622	8	0.084227
			7	0.043459	9	0.098005
			9	0.047002	10	0.094307
			11	0.055305	11	0.357150

**TABLE II**  
**COEFFICIENTS FOR ESTIMATION OF**  
**LOCATION AND SCALE PARAMETERS OF A**  
**WEIBULL POPULATION FROM L-ORDER STATISTICS**  
**(SAMPLE SIZES 11 TO 13)**  
**SHAPE PARAMETER = 1.75**

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.406331	
				VAR COEFF	0.011795	0.029964
				EFFICIENCY	99.94	99.94
12	11	8	1	0.589022	2	0.082177
			2	0.088155	4	0.116245
			3	0.061492	6	0.103269
			4	0.044721	7	0.079608
			5	0.056043	8	0.085916
			7	0.058101	9	0.096676
			9	0.047168	10	0.100278
			11	0.055299	11	0.357047
				BIAS CORR	0.406195	
				VAR COEFF	0.011799	0.029983
				EFFICIENCY	99.91	99.87
13	11	7	1	0.589453	3	0.120726
			2	0.088108	5	0.131381
			3	0.083107	7	0.116664
			5	0.078587	8	0.080357
			7	0.058163	9	0.101467
			9	0.047285	10	0.097469
			11	0.055298	11	0.358344
				BIAS CORR	0.406165	
				VAR COEFF	0.011807	0.030011
				EFFICIENCY	99.83	99.78
13	11	6	1	0.590359	3	0.120800
			2	0.116392	5	0.131652
			4	0.097427	7	0.160248
			6	0.066622	9	0.138764
			8	0.065776	10	0.096010
			11	0.063434	11	0.359322
				BIAS CORR	0.405004	
				VAR COEFF	0.011830	0.030046
				EFFICIENCY	99.65	99.67
12	11	5	1	0.592215	3	0.120948
			2	0.116775	5	0.132291
			4	0.114965	7	0.160606
			7	0.104194	9	0.195535



TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			11	0.071850	11	0.398896
			BIAS CORR	0.402575		
			VAR COEFF	0.011865		0.030132
			EFFICIENCY	99.35		99.38
13	11	4	1	0.632275	4	0.198095
			3	0.170898	7	0.194166
			7	0.124616	9	0.195922
			11	0.072210	11	0.400552
			BIAS CORR	0.402627		
			VAR COEFF	0.011934		0.030247
			EFFICIENCY	98.77		99.00
13	11	3	1	0.669294	5	0.298370
			4	0.211949	9	0.265697
			10	0.118757	11	0.404460
			BIAS CORR	0.389524		
			VAR COEFF	0.012108		0.030546
			EFFICIENCY	97.36		98.04
13	11	2	1	0.737756	7	0.434193
			6	0.262244	11	0.485118
			BIAS CORR	0.341217		
			VAR COEFF	0.012565		0.031393
			EFFICIENCY	93.82		95.39
13	11	1	1	1.000000	11	0.753597
			BIAS CORR	0.205661		
			VAR COEFF	0.014711		0.036817
			EFFICIENCY	80.13		91.34
13	10	10	1	0.590776	1	0.033069
			2	0.088850	2	0.045899
			3	0.060448	3	0.052609
			4	0.047188	4	0.068217
			5	0.037624	5	0.064544
			6	0.033470	6	0.085804
			7	0.028112	7	0.080153
			8	0.026570	8	0.103152
			9	0.022353	9	0.096269
			10	0.064611	10	0.474768

**TABLE II**  
**COEFFICIENTS FOR ESTIMATION OF**  
**LOCATION AND SCALE PARAMETERS OF A**  
**WEIBULL POPULATION FROM L-ORDER STATISTICS**  
**(SAMPLE SIZES 11 TO 13)**  
**SHAPE PARAMETER = 1.75**

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		0.032961
				EFFICIENCY		100.00
				EFF(M/N)		76.83
13	10	9	1	0.590923	2	0.065786
			2	0.088989	3	0.052569
			3	0.060126	4	0.068257
			4	0.047801	5	0.064515
			5	0.036878	6	0.085873
			6	0.034301	7	0.080110
			7	0.027274	8	0.103232
			8	0.039468	9	0.096258
			10	0.074241	10	0.474905
				BIAS CORR		
				VAR COEFF		0.032970
				EFFICIENCY		99.97
13	10	8	1	0.591066	2	0.089778
			2	0.089143	4	0.095906
			3	0.059823	5	0.064110
			4	0.048355	6	0.086423
			5	0.036184	7	0.079517
			6	0.048991	8	0.103931
			8	0.052168	9	0.095758
			10	0.074270	10	0.475296
				BIAS CORR		
				VAR COEFF		0.032982
				EFFICIENCY		99.94
13	10	7	1	0.591311	2	0.089756
			2	0.089275	4	0.127901
			3	0.059604	6	0.118610
			4	0.066532	7	0.078057
			6	0.066709	8	0.105535
			8	0.052259	9	0.094491
			10	0.074311	10	0.476119
				BIAS CORR		
				VAR COEFF		0.032999
				EFFICIENCY		99.88

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER \* 1.75

N	M	L	I	LOCATION	I	SCALE			
13	10	6	1	0.592065	2	0.089727			
			2	0.116633	4	0.128078			
			4	0.097729	6	0.159765			
			6	0.066777	8	0.143070			
			8	0.052407	9	0.092580			
			10	0.074389	10	0.477407			
			BIAS CORR	0.396141					
			VAR COEFF	0.011864		0.033028			
			EFFICIENCY	99.76		99.80			
			13	10	5	1	0.593398	2	0.089671
2	0.116912	4				0.128493			
4	0.115609	6				0.160076			
7	0.089441	8				0.195150			
10	0.084640	10				0.518111			
BIAS CORR	0.394709								
VAR COEFF	0.011889					0.033086			
EFFICIENCY	99.55					99.62			
13	10	4				1	0.633155	3	0.164879
						3	0.152740	6	0.194089
			6	0.118963	8	0.195405			
			10	0.095142	10	0.519380			
			BIAS CORR	0.394006					
			VAR COEFF	0.011948		0.033166			
			EFFICIENCY	99.06		99.38			
			13	10	3	1	0.669294	4	0.263323
						4	0.211949	8	0.268233
						10	0.118757	10	0.523110
BIAS CORR	0.389524								
VAR COEFF	0.012108					0.033400			
EFFICIENCY	97.75					98.68			
13	10	2				1	0.737756	6	0.398583
						6	0.262244	10	0.609030
						BIAS CORR	0.341217		
						VAR COEFF	0.012565		0.033986
			EFFICIENCY	94.20		96.98			
			13	10	1	1	1.000000	10	0.855383

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.205661	
				VAR COEFF	0.014711	0.037684
				EFFICIENCY	80.46	87.47
13	9	9	1	0.593899	1	0.037080
			2	0.089034	2	0.048761
			3	0.061604	3	0.065339
			4	0.045746	4	0.062139
			5	0.039935	5	0.088963
			6	0.031415	6	0.077289
			7	0.030620	7	0.108328
			8	0.024307	8	0.095186
			9	0.083440	9	0.602680
				BIAS CORR	0.384894	
				VAR COEFF	0.011898	0.036654
				EFFICIENCY	100.00	100.00
				EFF(M/N)	98.58	69.09
13	9	8	1	0.594085	2	0.071063
			2	0.088917	3	0.065298
			3	0.061979	4	0.062182
			4	0.045160	5	0.088939
			5	0.040714	6	0.077362
			6	0.030578	7	0.108288
			7	0.044162	8	0.095274
			9	0.094405	9	0.602831
				BIAS CORR	0.384656	
				VAR COEFF	0.011901	0.036665
				EFFICIENCY	99.97	99.97
13	9	7	1	0.594305	2	0.070945
			2	0.088840	3	0.095316
			3	0.062266	5	0.120753
			4	0.044714	6	0.076438
			5	0.056626	7	0.109460
			7	0.058764	8	0.094134
			9	0.094485	9	0.603699
				BIAS CORR	0.384522	
				VAR COEFF	0.011905	0.036681
				EFFICIENCY	99.94	99.93

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE			
13	9	6	1	0.594736	2	0.070749			
			2	0.088793	3	0.095496			
			3	0.083877	5	0.160016			
			5	0.079167	7	0.147128			
			7	0.058826	8	0.092129			
			9	0.094601	9	0.605160			
			BIAS CORR	0.384492					
			VAR COEFF	0.011913		0.036706			
			EFFICIENCY	99.87		99.86			
13	9	5	1	0.595776	3	0.147148			
			2	0.117519	5	0.160110			
			4	0.098048	7	0.147532			
			6	0.082149	8	0.091748			
			9	0.106509	9	0.605969			
			BIAS CORR	0.383688					
			VAR COEFF	0.011937		0.036742			
			EFFICIENCY	99.67		99.76			
			13	9	4	1	0.635190	3	0.147258
3	0.153746	5				0.160439			
6	0.103806	7				0.197328			
9	0.107258	9				0.648057			
BIAS CORR	0.384096								
VAR COEFF	0.011988					0.036788			
EFFICIENCY	99.24					99.63			
13	9	3				1	0.669739	4	0.240016
						4	0.195726	7	0.238762
			9	0.134535	9	0.650869			
			BIAS CORR	0.381874					
			VAR COEFF	0.012111		0.036966			
			EFFICIENCY	98.23		99.16			
			13	9	2	1	0.737756	5	0.364750
						6	0.262244	9	0.742273
						BIAS CORR	0.341217		
VAR COEFF	0.012565					0.037410			
EFFICIENCY	94.69					97.98			
13	9	1				1	1.000000	9	0.962711

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.205661		
				0.014711		0.040057
				80.88		91.50
13	8	8	1	0.597760	1	0.040981
			2	0.090080	2	0.058580
			3	0.060666	3	0.062685
			4	0.048255	4	0.087790
			5	0.037404	5	0.077594
			6	0.034722	6	0.112076
			7	0.027695	7	0.096722
			8	0.103418	8	0.745171
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				EFF(M/N)		
				0.371838		0.041280
				0.011977		100.00
				100.00		100.00
				97.92		61.35
13	8	7	1	0.597907	2	0.083231
			2	0.090237	3	0.062639
			3	0.060358	4	0.087844
			4	0.048818	5	0.077564
			5	0.036700	6	0.112167
			6	0.049639	7	0.096675
			8	0.116340	8	0.745449
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.371646		0.041294
				0.011980		99.97
				99.97		99.97
13	8	6	1	0.598159	2	0.111828
			2	0.090371	4	0.120786
			3	0.060137	5	0.077107
			4	0.067255	6	0.112809
			6	0.067610	7	0.095999
			8	0.116468	8	0.746166
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.371544		0.041312
				0.011986		99.92
				99.92		99.92
13	8	5	1	0.598928	2	0.111816
			2	0.117975	4	0.159280
			4	0.098731	6	0.151507

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
			6	0.067680	7	0.094309
			8	0.116686	8	0.747576
			BIAS CORR	0.371649		0.041336
			VAR COEFF	0.012002		99.87
			EFFICIENCY	99.79		
13	8	4	1	0.600907	2	0.111806
			2	0.118347	4	0.159516
			4	0.133677	6	0.201265
			8	0.147069	8	0.792250
			BIAS CORR	0.370006		0.041378
			VAR COEFF	0.012043		99.76
			EFFICIENCY	99.45		
13	8	3	1	0.643410	3	0.204856
			3	0.190631	6	0.243806
			8	0.165959	8	0.794405
			BIAS CORR	0.368896		0.041574
			VAR COEFF	0.012142		99.46
			EFFICIENCY	98.64		
13	8	2	1	0.737756	4	0.329292
			6	0.262244	8	0.891605
			BIAS CORR	0.341217		0.041874
			VAR COEFF	0.012565		98.58
			EFFICIENCY	95.32		
13	8	1	1	1.000000	8	1.081554
			BIAS CORR	0.205661		0.043787
			VAR COEFF	0.014711		94.27
			EFFICIENCY	81.42		
13	7	7	1	0.602912	1	0.047722
			2	0.090238	2	0.062109
			3	0.062536	3	0.082839
			4	0.046344	4	0.081515
			5	0.040724	5	0.113370
			6	0.031732	6	0.101419
			7	0.125514	7	0.908682
			BIAS CORR	0.357312		0.047244
			VAR COEFF	0.012078		

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				EFFICIENCY		53.60
				EFF(M/N)		
13	7	5	1	0.603148	2	0.090819
			2	0.090159	3	0.082794
			3	0.062834	4	0.081575
			4	0.045883	5	0.113350
			5	0.057238	6	0.101521
			7	0.140739	7	0.908979
				BIAS CORR		
				0.357149		
				VAR COEFF		0.047263
				0.012082		99.96
				EFFICIENCY		
				99.96		
12	7	5	1	0.603602	2	0.090684
			2	0.090113	3	0.122187
			3	0.085011	5	0.155079
			5	0.080369	6	0.100376
			7	0.140906	7	0.910205
				BIAS CORR		
				0.357084		
				VAR COEFF		0.047291
				0.012091		99.90
				EFFICIENCY		
				99.89		
13	7	4	1	0.604870	2	0.090459
			2	0.119158	3	0.122441
			4	0.117213	5	0.206679
			7	0.158759	7	0.959075
				BIAS CORR		
				0.356594		
				VAR COEFF		0.047334
				0.012119		99.81
				EFFICIENCY		
				99.67		
13	7	3	1	0.645786	3	0.188535
			3	0.174375	5	0.206856
			7	0.179839	7	0.960283
				BIAS CORR		
				0.356413		
				VAR COEFF		0.047393
				0.012190		99.69
				EFFICIENCY		
				99.08		
13	7	2	1	0.737756	4	0.310013
			6	0.262244	7	1.017230
				BIAS CORR		
				0.341217		
				VAR COEFF		0.047675
				0.012565		



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				96.12		99.10
			1	1.000000	7	1.218741
13	7	1		BIAS CORR		0.049102
				VAR COEFF		96.22
				EFFICIENCY		
13	6	6	1	0.609333	1	0.054524
			2	0.091673	2	0.076379
			3	0.061936	3	0.086107
			4	0.048973	4	0.113063
			5	0.038374	5	0.109125
			6	0.149709	6	1.103241
				BIAS CORR		0.055223
				VAR COEFF		100.00
				EFFICIENCY		45.86
				EFF(M/N)		
13	6	5	1	0.609610	2	0.109187
			2	0.091815	3	0.086057
			3	0.061706	4	0.113144
			4	0.068253	5	0.109101
			6	0.168616	6	1.103731
				BIAS CORR		0.055247
				VAR COEFF		99.96
				EFFICIENCY		
13	6	4	1	0.610420	2	0.148501
			2	0.120144	4	0.158412
			4	0.100554	5	0.108520
			6	0.168882	6	1.104760
				BIAS CORR		0.055280
				VAR COEFF		99.90
				EFFICIENCY		
13	6	3	1	0.651098	2	0.148523
			3	0.156931	4	0.212640
			6	0.191971	6	1.159004
				BIAS CORR		0.055329
				VAR COEFF		99.81
				EFFICIENCY		

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	i	LOCATION	I	SCALE
13	6	2	1	0.737756	3	0.274251
			6	0.262244	6	1.218444
			BIAS CORR	0.341217		
			VAR COEFF	0.012565		0.055542
			EFFICIENCY	97.17		99.42
13	6	1	1	1.000000	6	1.383951
			BIAS CORR	0.205661		
			VAR COEFF	0.014711		0.056588
			EFFICIENCY	83.00		97.59
13	5	5	1	0.618058	1	0.065899
			2	0.092488	2	0.087583
			3	0.063873	3	0.112803
			4	0.047749	4	0.119221
			5	0.177833	5	1.345573
			BIAS CORR	0.322661		
			VAR COEFF	0.012384		0.066440
			EFFICIENCY	100.00		100.00
			EFF(M/N)	94.71		38.12
13	5	4	1	0.618548	2	0.127246
			2	0.092443	3	0.112757
			3	0.086954	4	0.119322
			5	0.202055	5	1.346209
			BIAS CORR	0.322550		
			VAR COEFF	0.012393		0.066475
EFFICIENCY	99.92		99.95			
13	5	2	1	0.620769	2	0.178794
			2	0.145953	4	0.178659
			5	0.233278	5	1.346958
			BIAS CORR	0.322391		
			VAR COEFF	0.012440		0.066533
EFFICIENCY	99.55		99.86			
13	5	2	1	0.720824	3	0.263411
			5	0.279171	5	1.409985
			BIAS CORR	0.323500		
VAR COEFF	0.012618		0.066652			

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	98.15	99.68
12	5	1	1	1.000000	5	1.592958
				BIAS CORR	0.205661	
				VAR COEFF	0.014711	0.067420
				EFFICIENCY	74.18	98.55
13	4	4	1	0.629863	1	0.080991
			2	0.094583	2	0.112701
			3	0.067946	3	0.131154
			4	0.211558	4	1.666603
				BIAS CORR	0.301969	
				VAR COEFF	0.012624	0.083366
				EFFICIENCY	100.00	100.00
				EFF(M/N)	97.90	90.38
13	4	3	1	0.630737	2	0.161467
			2	0.123969	3	0.131108
			4	0.245294	4	1.667626
				BIAS CORR	0.301951	
				VAR COEFF	0.012643	0.083414
				EFFICIENCY	99.85	99.94
13	4	2	1	0.704884	2	0.221437
			4	0.299116	4	1.737628
				BIAS CORR	0.302369	
				VAR COEFF	0.012756	0.083447
				EFFICIENCY	98.96	99.84
13	4	1	1	1.000000	4	1.874964
				BIAS CORR	0.209661	
				VAR COEFF	0.014711	0.084036
				EFFICIENCY	89.82	99.20
13	3	3	1	0.647314	1	0.107804
			2	0.096981	2	0.144652
			3	0.296109	3	2.132681
				BIAS CORR	0.276793	
				VAR COEFF	0.012979	0.111826
				EFFICIENCY	100.00	100.00
				EFF(M/N)	90.34	22.69

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 1.75

N	M	L	I	LOCATION	I	SCALE
11	3	2	1	0.689673	2	0.209601
			3	0.310327	3	2.134255
			BIAS CORR	0.277161		
			VAR COEFF	0.013027		0.111920
			EFFICIENCY	99.61		99.92
12	3	1	1	1.000000	3	2.293254
			BIAS CORR	0.205661		
			VAR COEFF	0.014711		0.112241
			EFFICIENCY	88.21		99.63
13	2	2	1	0.675385	1	0.156960
			2	0.324615	2	2.925501
			BIAS CORR	0.246279		
			VAR COEFF	0.013549		0.169580
			EFFICIENCY	100.00		100.00
			EFF(M/N)	86.56		14.93
12	2	1	1	1.000000	2	3.023088
			BIAS CORR	0.205661		
			VAR COEFF	0.014711		0.169779
			EFFICIENCY	92.10		99.88
13	1	1	1	1.000000	1	4.862367
			BIAS CORR	0.205661		
			VAR COEFF	0.014711		0.347796
			EFFICIENCY	100.00		100.00
			EFF(M/N)	79.73		7.28

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	J	SCALE		
11	11	11	1	0.483118	1	0.026379		
			2	0.099538	2	0.038781		
			3	0.073302	3	0.049156		
			4	0.059996	4	0.058735		
			5	0.052031	5	0.068096		
			6	0.046462	6	0.077613		
			7	0.042580	7	0.087716		
			8	0.039412	8	0.098910		
			9	0.036892	9	0.112172		
			10	0.034613	10	0.129778		
			11	0.032056	11	0.171390		
	BIAS CORR		0.554279					
	VAR COEFF		0.013896		0.023033			
	EFFICIENCY		100.00		100.00			
	EFF(M/N)		100.00		100.00			
11	11	10	1	0.483482	2	0.055287		
			2	0.099683	3	0.049136		
			3	0.073188	4	0.058744		
			4	0.060242	5	0.068095		
			5	0.051892	6	0.077652		
			6	0.069569	7	0.087725		
			8	0.058359	8	0.098950		
			9	0.036863	9	0.112203		
			10	0.034650	10	0.129820		
			11	0.032072	11	0.171446		
				BIAS CORR		0.553733		
	VAR COEFF		0.013907		0.023040			
	EFFICIENCY		99.92		99.97			
11	11	9	1	0.483947	2	0.077273		
			2	0.099570	4	0.084670		
			3	0.073681	5	0.068041		
			4	0.059708	6	0.077814		
			5	0.076451	7	0.087547		
			7	0.086651	8	0.099132		
			9	0.053287	9	0.112207		
			10	0.034602	10	0.129908		
			11	0.032102	11	0.171541		
				BIAS CORR		0.553078		
				VAR COEFF		0.013919		0.023053

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	99.83	99.91
11	11	8	1	0.484450	2	0.077318
			2	0.099945	4	0.118745
			3	0.073149	6	0.110948
			4	0.086425	7	0.087452
			6	0.094825	8	0.099451
			8	0.080979	9	0.112150
			10	0.048124	10	0.130080
			11	0.032102	11	0.171700
				BIAS CORR		0.552078
				VAR COEFF		0.013936
				EFFICIENCY	99.72	99.81
11	11	7	1	0.485457	3	0.118541
			2	0.099818	5	0.138235
			3	0.102509	7	0.124529
			5	0.106772	8	0.098761
			7	0.086863	9	0.112833
			9	0.077418	10	0.130135
			11	0.041162	11	0.172016
				BIAS CORR		0.549817
				VAR COEFF		0.013963
				EFFICIENCY	99.52	99.64
11	11	6	1	0.487046	3	0.118900
			2	0.133378	5	0.138706
			4	0.125422	7	0.181063
			6	0.119321	9	0.154142
			9	0.093539	10	0.130488
			11	0.041295	11	0.172559
				BIAS CORR		0.548345
				VAR COEFF		0.014012
				EFFICIENCY	99.17	99.31
11	11	5	1	0.529677	4	0.203843
			3	0.186458	7	0.214873
			6	0.148171	9	0.154818
			9	0.094156	10	0.131315
			11	0.041524	11	0.173496
				BIAS CORR		0.549227

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				0.014100		0.023322
				98.55		98.76
11	11	4	1	0.534689	5	0.264174
			3	0.188032	8	0.245759
			6	0.175811	10	0.174407
			10	0.101468	11	0.175322
				BIAS CORR		
				0.531495		
				VAR COEFF		0.023579
				EFFICIENCY		97.68
11	11	3	1	0.576965	6	0.334818
			4	0.261000	9	0.290845
			9	0.162035	11	0.214872
				BIAS CORR		
				0.515958		
				VAR COEFF		0.024171
				EFFICIENCY		95.29
11	11	2	1	0.660305	8	0.522264
			6	0.339695	11	0.258779
				BIAS CORR		
				0.461744		
				VAR COEFF		0.025966
				EFFICIENCY		88.70
11	11	1	1	1.000000	9	0.824495
				BIAS CORR		
				0.267207		
				VAR COEFF		0.033200
				EFFICIENCY		69.38
11	10	10	1	0.485683	1	0.029007
			2	0.100066	2	0.042664
			3	0.073671	3	0.053967
			4	0.060332	4	0.064731
			5	0.052245	5	0.074565
			6	0.046725	6	0.083495
			7	0.042729	7	0.096066
			8	0.039556	8	0.108450
			9	0.036924	9	0.122473
			10	0.062070	10	0.302404
				BIAS CORR		
				0.540076		
				VAR COEFF		0.025344

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		90.88
11	10	9	1	0.486050	2	0.060816
			2	0.100211	3	0.053947
			3	0.073556	4	0.064743
			4	0.060580	5	0.074565
			5	0.052106	6	0.085540
			6	0.069913	7	0.096078
			8	0.058568	8	0.108497
			9	0.036895	9	0.122512
			10	0.062121	10	0.302513
				BIAS CORR		
				VAR COEFF		0.025354
				EFFICIENCY		99.96
11	10	8	1	0.486520	2	0.084960
			2	0.100099	4	0.093211
			3	0.074052	5	0.074510
			4	0.060044	6	0.085729
			5	0.076803	7	0.095943
			7	0.087004	8	0.108703
			9	0.053380	9	0.122517
			10	0.062099	10	0.302713
				BIAS CORR		
				VAR COEFF		0.025369
				EFFICIENCY		99.90
11	10	7	1	0.487023	2	0.085016
			2	0.100475	4	0.130538
			3	0.073518	6	0.122019
			4	0.086870	7	0.095793
			6	0.095273	8	0.109062
			8	0.081209	9	0.122470
			10	0.075632	10	0.303078
				BIAS CORR		
				VAR COEFF		0.025396
				EFFICIENCY		99.80
11	10	6	1	0.487993	3	0.130395
			2	0.133616	5	0.151896



TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
			4	0.125781	7	0.136665
			6	0.095447	8	0.108323
			8	0.081390	9	0.123243
			10	0.075773	10	0.303492
			BIAS CORR	0.538141		
			VAR COEFF	0.014039		0.025446
			EFFICIENCY	99.51		99.60
11	10	5	1	0.490347	3	0.130820
			2	0.134193	5	0.152461
			4	0.151339	7	0.198734
			7	0.135509	9	0.168602
			10	0.088611	10	0.304479
			BIAS CORR	0.534506		
			VAR COEFF	0.014106		0.025537
			EFFICIENCY	99.04		99.25
11	10	4	1	0.534689	4	0.224350
			3	0.188032	7	0.235988
			6	0.175811	9	0.169431
			10	0.101468	10	0.306426
			BIAS CORR	0.531495		
			VAR COEFF	0.014234		0.025693
			EFFICIENCY	98.14		98.64
11	10	3	1	0.576965	5	0.290848
			4	0.261000	8	0.269784
			9	0.162035	10	0.355611
			BIAS CORR	0.515958		
			VAR COEFF	0.014526		0.026003
			EFFICIENCY	96.17		97.47
11	10	2	1	0.660305	6	0.455637
			6	0.339695	10	0.441595
			BIAS CORR	0.461744		
			VAR COEFF	0.015325		0.027043
			EFFICIENCY	91.16		93.72
11	10	1	1	1.000000	9	0.824495
			BIAS CORR	0.267207		
			VAR COEFF	0.019509		0.033200

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				71.61		76.34
				EFFICIENCY		
11	9	9	1	0.489451	1	0.032245
			2	0.100803	2	0.047232
			3	0.074317	3	0.060415
			4	0.060586	4	0.070836
			5	0.052847	5	0.083980
			6	0.046819	6	0.093633
			7	0.043073	7	0.106900
			8	0.039647	8	0.119448
			9	0.092457	9	0.433230
				BIAS CORR		
				0.523418		
				VAR COEFF		0.028186
				0.014078		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		81.72
				98.70		
11	9	8	1	0.489824	2	0.067413
			2	0.100950	3	0.060395
			3	0.074202	4	0.070852
			4	0.060836	5	0.083984
			5	0.052707	6	0.093686
			6	0.070193	7	0.106918
			8	0.058813	8	0.119505
			9	0.092474	9	0.433397
				BIAS CORR		
				0.522844		
				VAR COEFF		0.028197
				0.014090		
				EFFICIENCY		99.96
				99.92		
11	9	7	1	0.490292	2	0.094449
			2	0.100836	4	0.102730
			3	0.074699	5	0.083930
			4	0.060297	6	0.093904
			5	0.077455	7	0.106774
			7	0.087444	8	0.119743
			9	0.108977	9	0.433634
				BIAS CORR		
				0.522182		
				VAR COEFF		0.028217
				0.014102		
				EFFICIENCY		99.89
				99.83		
11	9	6	1	0.490904	2	0.094525
			2	0.100915	4	0.144795

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
			3	0.103628	6	0.134798
			5	0.107884	7	0.106620
			7	0.087567	8	0.120163
			9	0.109102	9	0.434003
				BIAS CORR		
				VAR COEFF		0.028251
				EFFICIENCY		99.77
11	9	5	1	0.492527	3	0.144747
			2	0.134862	5	0.168712
			4	0.126759	7	0.151425
			6	0.120395	8	0.119354
			9	0.125457	9	0.435309
				BIAS CORR		
				VAR COEFF		0.028308
				EFFICIENCY		99.57
11	9	4	1	0.535661	3	0.145277
			3	0.188517	5	0.168394
			6	0.149551	7	0.219890
			9	0.126271	9	0.486427
				BIAS CORR		
				VAR COEFF		0.028420
				EFFICIENCY		99.13
11	9	3	1	0.576965	4	0.249088
			4	0.261000	7	0.261629
			9	0.162035	9	0.489623
				BIAS CORR		
				VAR COEFF		0.028615
				EFFICIENCY		98.50
11	9	2	1	0.660305	6	0.403721
			6	0.339695	9	0.544925
				BIAS CORR		
				VAR COEFF		0.029292
				EFFICIENCY		96.22
11	9	1	1	1.000000	9	0.824495
				BIAS CORR		
				VAR COEFF		0.033200

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE	
				EFFICIENCY	72.16	84.90	
11	8	8	1	0.494465	1	0.036168	
			2	0.101921	2	0.053599	
			3	0.074761	3	0.066361	
			4	0.061655	4	0.082108	
			5	0.052778	5	0.091387	
			6	0.047553	6	0.106779	
			7	0.043173	7	0.118620	
			8	0.123674	8	0.571405	
				BIAS CORR	0.504621		
				VAR COEFF	0.014224		0.031751
	EFFICIENCY	100.00		100.00			
	EFF(M/N)	97.69		72.54			
11	8	7	1	0.494860	2	0.076240	
			2	0.102069	3	0.066341	
			3	0.074646	4	0.082131	
			4	0.061906	5	0.091395	
			5	0.052638	6	0.106844	
			6	0.070982	7	0.118645	
			8	0.142900	8	0.571664	
				BIAS CORR	0.504043		
				VAR COEFF	0.014235		0.031765
				EFFICIENCY	99.92		99.96
11	8	6	1	0.495309	2	0.105945	
			2	0.102194	4	0.117156	
			3	0.074629	5	0.091340	
			4	0.088307	6	0.107091	
			6	0.096522	7	0.118495	
			8	0.143039	8	0.572197	
				BIAS CORR	0.503786		
				VAR COEFF	0.014249		0.031789
				EFFICIENCY	99.83		99.88
			11	8	5	1	0.496310
2	0.135840	4				0.162952	
4	0.127810	6				0.151612	
6	0.096701	7				0.118337	
8	0.143339	8				0.573073	

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 12 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.504017	
				VAR COEFF	0.014279	0.031830
				EFFICIENCY	99.61	99.75
11	8	4	1	0.529496	3	0.162788
			3	0.162816	5	0.188742
			5	0.134059	7	0.169497
			8	0.163629	8	0.573766
				BIAS CORR	0.503827	
				VAR COEFF	0.014361	0.031910
				EFFICIENCY	99.04	99.50
11	8	3	1	0.577897	3	0.205002
			4	0.235603	6	0.259792
			8	0.186500	8	0.629667
				BIAS CORR	0.503278	
				VAR COEFF	0.014550	0.032054
				EFFICIENCY	97.76	99.06
11	8	2	1	0.660305	5	0.360907
			6	0.339695	8	0.685939
				BIAS CORR	0.461744	
				VAR COEFF	0.015325	0.032497
				EFFICIENCY	92.81	97.70
11	8	1	1	1.000000	8	0.934001
				BIAS CORR	0.267207	
				VAR COEFF	0.019509	0.035090
				EFFICIENCY	72.91	90.48
11	7	7	1	0.501134	1	0.041487
			2	0.103046	2	0.060103
			3	0.076205	3	0.078280
			4	0.061660	4	0.089717
			5	0.053979	5	0.107210
			6	0.047654	6	0.119458
			7	0.156322	7	0.723417
				BIAS CORR	0.483622	
				VAR COEFF	0.014415	0.036353
				EFFICIENCY	100.00	100.00
				EFF(M/N)	96.40	63.36

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE				
11	7	6	1	0.501558	2	0.086078				
			2	0.109055	3	0.078264				
			3	0.076383	4	0.089747				
			4	0.061559	5	0.107227				
			5	0.078829	6	0.119540				
			7	0.178616	7	0.723762				
			BIAS CORR		0.483201					
			VAR COEFF		0.014427		0.036372			
			EFFICIENCY		99.92		99.95			
			11	7	5	1	0.502195	2	0.121138	
2	0.109138	4				0.131082				
3	0.105919	5				0.107179				
5	0.109898	6				0.119845				
7	0.178049	7				0.724249				
BIAS CORR		0.483081								
VAR COEFF		0.014445					0.036405			
EFFICIENCY		99.79					99.86			
11	7	4				1	0.503995	2	0.121275	
						2	0.137838	4	0.184859	
			4	0.135058	6	0.172123				
			7	0.203109	7	0.725153				
			BIAS CORR		0.482324					
			VAR COEFF		0.014499		0.036461			
			EFFICIENCY		99.42		99.70			
			11	7	3	1	0.549700	3	0.185820	
						3	0.219040	5	0.215225	
						7	0.231260	7	0.783163	
BIAS CORR		0.481942								
VAR COEFF		0.014639					0.036553			
EFFICIENCY		98.47					99.45			
11	7	2				1	0.660305	4	0.318147	
						6	0.339695	7	0.840965	
						BIAS CORR		0.461744		
						VAR COEFF		0.013325		0.036871
			EFFICIENCY		94.06		98.60			
			11	7	1	1	1.000000	7	1.053110	

TABLE 11  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 2.00

L	M	C	I	LOCATION		I	SCALE	
				BIAS CORR	VAR CORR		EFFICIENCY	BIAS CORR
				0.767207	0.019809		0.038666	94.02
11	6	6	1	0.504734	0.106070	1	0.047488	
			2	0.076877	0.043198	2	0.071271	
			3	0.044768	0.019040	3	0.088067	
			4	0.046014	0.014441	4	0.107407	
			5	0.046441	100.00	5	0.121728	
			6	94.79	94.79	6	0.947447	
				0.460146	0.014441		0.047488	
				100.00	100.00		100.00	
				94.79	94.79		94.79	
11	6	3	1	0.510217	0.106070	1	0.101374	
			2	0.076877	0.043198	2	0.080047	
			3	0.044768	0.019040	3	0.107407	
			4	0.046014	0.014441	4	0.121728	
			5	0.046441	100.00	5	0.947447	
			6	94.79	94.79	6	0.047488	
				0.460146	0.014441		0.080047	
				100.00	100.00		100.00	
				94.79	94.79		94.79	
11	6	6	1	0.511701	0.106070	1	0.100787	
			2	0.076877	0.043198	2	0.100477	
			3	0.044768	0.019040	3	0.121728	
			4	0.046014	0.014441	4	0.047488	
			5	0.046441	100.00	5	0.047488	
			6	94.79	94.79	6	0.047488	
				0.460146	0.014441		0.047488	
				100.00	100.00		100.00	
				94.79	94.79		94.79	
11	6	3	1	0.506704	0.106070	1	0.100787	
			2	0.076877	0.043198	2	0.100477	
			3	0.044768	0.019040	3	0.121728	
			4	0.046014	0.014441	4	0.047488	
			5	0.046441	100.00	5	0.047488	
			6	94.79	94.79	6	0.047488	
				0.460146	0.014441		0.047488	
				100.00	100.00		100.00	
				94.79	94.79		94.79	
11	6	6	1	0.506704	0.106070	1	0.100787	
			2	0.076877	0.043198	2	0.100477	
			3	0.044768	0.019040	3	0.121728	
			4	0.046014	0.014441	4	0.047488	
			5	0.046441	100.00	5	0.047488	
			6	94.79	94.79	6	0.047488	
				0.460146	0.014441		0.047488	
				100.00	100.00		100.00	
				94.79	94.79		94.79	
11	6	3	1	0.506704	0.106070	1	0.100787	
			2	0.076877	0.043198	2	0.100477	
			3	0.044768	0.019040	3	0.121728	
			4	0.046014	0.014441	4	0.047488	
			5	0.046441	100.00	5	0.047488	
			6	94.79	94.79	6	0.047488	
				0.460146	0.014441		0.047488	
				100.00	100.00		100.00	
				94.79	94.79		94.79	

TABLE II

Coefficients for Estimation of Location and Scale Parameters of a Weibull Population from L-Order Statistics (Sample Sizes 11 to 13)

SHAPE PARAMETER = 2.00

L	M	L	I	LOCATION	I	SCALE
				BIAS CORR VAR COEFF EFFICIENCY	0.461744 0.019329 99.69	0.047898 99.12
11	6	1	1	1.000000	6	1.140637
				BIAS CORR VAR COEFF EFFICIENCY	0.767207 0.019909 79.17	0.044137 96.33
11	6		1	0.821371	1	0.697681
			2	0.107084	2	0.083894
			3	0.070786	3	0.100467
			4	0.044074	4	0.129474
			5	0.278008	5	1.106116
				BIAS CORR VAR COEFF EFFICIENCY	0.433716 0.014449 100.00	0.001733 100.00 44.78
11	6	4	1	0.677011	7	0.170091
			2	0.197181	8	0.105454
			3	0.199811	9	0.174040
			4	0.761371	9	1.104837
				BIAS CORR VAR COEFF EFFICIENCY	0.433074 0.019019 97.87	0.001740 97.73
11	6	5	1	0.622914	7	0.167444
			2	0.170447	8	0.102908
			3	0.267884	9	1.100030
				BIAS CORR VAR COEFF EFFICIENCY	0.434847 0.019048 97.81	0.001377 97.81
11	6	7	1	0.634074	8	0.207192
			2	0.260071	9	1.174484
				BIAS CORR VAR COEFF EFFICIENCY	0.430967 0.019471 97.76	0.001444 97.87
11	6	1	1	1.000000	6	1.390887



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM 1-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

n	m	k	j	LOCATION	j	SCALE
				BIAS CORR		
				VAN COEFF		
				EFFICIENCY		
				0.267207		0.052321
				0.019509		97.86
				76.88		
11	4	4	1	0.537189	1	0.071371
			2	0.110719	2	0.104677
			3	0.090686	3	0.131373
			4	0.271946	4	1.272007
				BIAS CORR		
				VAN COEFF		
				EFFICIENCY		
				0.403516		0.064340
				0.019461		100.00
				100.00		35.80
				87.88		
11	4	3	1	0.538333	2	0.149319
			2	0.146416	3	0.131339
			3	0.319091	4	1.273077
				BIAS CORR		
				VAN COEFF		
				EFFICIENCY		
				0.403849		0.064376
				0.019495		99.91
				99.77		
11	4	2	1	0.627766	2	0.208113
			2	0.277244	4	1.444707
				BIAS CORR		
				VAN COEFF		
				EFFICIENCY		
				0.403777		0.064419
				0.019493		99.77
				98.91		
11	4	1	1	1.000000	4	1.273077
				BIAS CORR		
				VAN COEFF		
				EFFICIENCY		
				0.267207		0.064380
				0.019509		98.86
				79.74		
11	3	1	1	0.660381	1	0.094081
			2	0.114478	2	0.131097
			3	0.279164	3	1.274763
				BIAS CORR		
				VAN COEFF		
				EFFICIENCY		
				0.244144		0.064011
				0.016136		100.00
				100.00		76.67
				86.17		
11	3	2	1	0.608644	2	0.142011
			2	0.291481	3	1.244347

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION		SCALE	
				BIAS CORR	VAR COEFF	EFFICIENCY	EFFICIENCY
11	7	1	1	0.368957	0.016726	99.49	0.086607
			2	0.267707	0.019909	82.71	0.086459
			3	1.000000	0.019909	99.49	0.086459
11	7	2	1	0.547989	0.017247	100.00	0.137433
			2	0.407019	0.017247	80.99	0.137433
			3	0.324887	0.017247	100.00	0.137433
			4	0.017247	0.017247	100.00	0.137433
			5	0.017247	0.017247	100.00	0.137433
			6	0.017247	0.017247	100.00	0.137433
11	7	1	1	0.747707	0.019909	88.38	0.131997
			2	0.267707	0.019909	99.49	0.131997
			3	1.000000	0.019909	99.49	0.131997
11	1	1	1	0.767707	0.019909	100.00	0.174210
			2	0.267707	0.019909	99.49	0.174210
			3	1.000000	0.019909	99.49	0.174210
17	17	17	1	0.478410	0.017907	99.49	0.073176
			2	0.046678	0.017907	99.49	0.073176
			3	0.010431	0.017907	99.49	0.073176
			4	0.007800	0.017907	99.49	0.073176
			5	0.044789	0.017907	99.49	0.073176
			6	0.044187	0.017907	99.49	0.073176
			7	0.040880	0.017907	99.49	0.073176
			8	0.037871	0.017907	99.49	0.073176
			9	0.035077	0.017907	99.49	0.073176
			10	0.032477	0.017907	99.49	0.073176
			11	0.031114	0.017907	99.49	0.073176
			17	0.028434	0.017907	99.49	0.073176
				BIAS CORR	0.946817		
				VAR COEFF	0.017907		0.071077

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

R	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				EFFICIENCY		EFFICIENCY
				EFF(M/N)		EFF(M/N)
12	12	11	1	0.475666	2	0.048559
			2	0.046697	3	0.042912
			3	0.070797	4	0.031144
			4	0.058026	5	0.057014
			5	0.049382	6	0.067017
			6	0.065714	7	0.075193
			7	0.056167	8	0.084037
			8	0.034897	9	0.043891
			10	0.033137	10	0.109641
			11	0.031072	11	0.171417
			12	0.028997	12	0.199093
				BIAS CORR		
				VAN COEFF		0.071077
				EFFICIENCY		99.97
12	12	10	1	0.476064	2	0.067597
			2	0.046318	3	0.074912
			3	0.071365	4	0.058879
			4	0.046670	5	0.067305
			5	0.072879	6	0.074757
			6	0.047007	7	0.084460
			7	0.051816	8	0.043630
			10	0.032694	10	0.109807
			11	0.031297	11	0.171444
			12	0.024480	12	0.197191
				BIAS CORR		
				VAN COEFF		0.071106
				EFFICIENCY		99.93
12	12	9	1	0.476329	2	0.067619
			2	0.046994	3	0.103066
			3	0.064956	4	0.046953
			4	0.082763	5	0.074796
			5	0.049018	6	0.084776
			6	0.074763	7	0.043044
			10	0.047878	10	0.104717
			11	0.031904	11	0.171478
			12	0.027001	12	0.194268

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

A	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.545614	
				VAR COEFF	0.012614	0.021120
				EFFICIENCY	99.79	99.87
12	12	8	1	0.477017	2	0.087639
			2	0.096409	4	0.103366
			3	0.048330	6	0.133720
			5	0.101945	8	0.119772
			7	0.082177	9	0.092794
			9	0.072097	10	0.106996
			11	0.043097	11	0.121469
			12	0.028977	12	0.139474
				BIAS CORR	0.944897	
				VAR COEFF	0.012678	0.021146
				EFFICIENCY	99.67	99.74
12	12	7	1	0.477430	3	0.103789
			2	0.128430	5	0.119704
			4	0.120288	7	0.133403
			6	0.070404	9	0.131941
			8	0.076990	10	0.109777
			10	0.044321	11	0.122142
			12	0.037074	12	0.139647
				BIAS CORR	0.943103	
				VAR COEFF	0.012697	0.021146
				EFFICIENCY	99.49	99.96
12	12	6	1	0.479774	3	0.120204
			2	0.128865	6	0.163949
			4	0.143789	8	0.173271
			7	0.126899	10	0.148478
			10	0.083914	11	0.127086
			12	0.037701	12	0.160298
				BIAS CORR	0.941006	
				VAR COEFF	0.012704	0.021799
				EFFICIENCY	99.08	99.21
12	12	5	1	0.471136	4	0.126899
			3	0.124704	7	0.134747
			6	0.140641	9	0.148049
			9	0.114246	11	0.161773

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	l	LOCATION	l	SCALE
			12	0.044273	12	0.161208
			BIAS CORR	0.538130		
			VAR COEFF	0.012791		0.021395
			EFFICIENCY	98.41		98.59
12	12	4	1	0.929886	5	0.274827
			3	0.704981	9	0.264146
			7	0.178789	11	0.169914
			11	0.090778	12	0.163158
			BIAS CORR	0.925796		
			VAR COEFF	0.012911		0.021651
			EFFICIENCY	97.49		97.38
12	12	7	1	0.967916	6	0.346393
			4	0.748999	10	0.309170
			9	0.143931	12	0.144748
			BIAS CORR	0.448770		
			VAR COEFF	0.013192		0.022109
			EFFICIENCY	95.62		95.06
12	12	7	1	0.664608	8	0.348476
			7	0.330392	12	0.263499
			BIAS CORR	0.664974		
			VAR COEFF	0.013791		0.023970
			EFFICIENCY	90.29		87.49
12	12	1	1	1.000000	10	0.491715
			BIAS CORR	0.799892		
			VAR COEFF	0.017883		0.030454
			EFFICIENCY	70.34		69.26
12	11	11	1	0.477671	1	0.029283
			2	0.046414	2	0.087073
			3	0.070974	3	0.046432
			4	0.097718	4	0.099497
			5	0.090060	5	0.064844
			6	0.044274	6	0.072368
			7	0.040809	7	0.087373
			8	0.037487	8	0.091086
			9	0.039197	9	0.102113
			10	0.032488	10	0.114409

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	J	LOCATION	J	SCALE
			11	0.055993	11	0.280109
			BIAS CORR	0.934086		
			VAR COEFF	0.012646		0.023015
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.94		91.63
12	11	1'	1	0.477942	2	0.052933
			2	0.096826	3	0.046912
			3	0.071416	4	0.055468
			4	0.057114	5	0.064832
			5	0.050702	6	0.072423
			6	0.043904	7	0.082349
			7	0.061406	8	0.091141
			8	0.051720	9	0.102123
			10	0.032926	10	0.114441
			11	0.036043	11	0.280184
			BIAS CORR	0.933390		
			VAR COEFF	0.012694		0.023021
			EFFICIENCY	99.94		99.97
12	11	4	1	0.478278	2	0.073747
			2	0.096754	3	0.080473
			3	0.071694	4	0.064710
			4	0.056874	5	0.072740
			5	0.073230	6	0.081940
			6	0.082343	7	0.091612
			7	0.051968	8	0.101886
			8	0.052706	9	0.114609
			10	0.036144	10	0.280288
			11	0.033398	11	
			BIAS CORR	0.933398		
			VAR COEFF	0.012662		0.023031
			EFFICIENCY	99.87		99.93
12	11	8	1	0.478846	2	0.073777
			2	0.097434	3	0.112418
			3	0.070242	4	0.104880
			4	0.083128	5	0.081440
			5	0.090486	6	0.092494
			6	0.076827	7	0.101790
			7	0.047634	8	0.114057
			8	0.059944	9	0.280344
			9		10	
			10		11	
			11			

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.532855		0.023049
				0.012673		99.85
				99.79		
12	11	7	1	0.479235	3	0.112964
			2	0.096847	5	0.130111
			3	0.098774	7	0.118010
			5	0.102403	8	0.084758
			7	0.082515	9	0.103667
			9	0.072211	10	0.114074
			11	0.068016	11	0.281054
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.532114		0.023079
				0.012687		99.72
				99.67		
12	11	6	1	0.480511	3	0.113167
			2	0.124228	5	0.130966
			4	0.120644	7	0.167172
			6	0.112680	9	0.143483
			9	0.088638	10	0.114063
			11	0.068298	11	0.281636
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.531217		0.023124
				0.012723		99.53
				99.38		
12	11	5	1	0.521386	3	0.142147
			3	0.154677	6	0.178680
			5	0.129904	8	0.188650
			8	0.118765	10	0.187828
			11	0.074644	11	0.282237
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.530740		0.023213
				0.012744		99.14
				98.84		
12	11	4	1	0.529884	4	0.143001
			3	0.204981	7	0.201971
			7	0.178758	9	0.219244
			11	0.043778	11	0.326258
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.529796		0.023372
				0.012911		98.47
				97.49		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

n	M	L	i	LOCATION	i	SCALE	
12	11	1	1	0.567516	5	0.300229	
			4	0.248553	9	0.267683	
			9	0.193931	11	0.330327	
			BIAS CORR		0.498770		
			VAR COEFF		0.013192		0.023608
			EFFICIENCY		95.86		97.15
			12	11	2	1	0.669608
7	0.330392	11				0.410853	
BIAS CORR		0.464924					
VAR COEFF		0.013991					0.024661
EFFICIENCY		90.69					93.32
12	11	1	1	1.000000	10	0.401713	
			BIAS CORR		0.255832		
			VAR COEFF		0.017883		0.030494
			EFFICIENCY		70.71		79.97
12	10	1	1	0.480812	1	0.077779	
			2	0.097603	2	0.040947	
			3	0.071282	3	0.050745	
			4	0.058443	4	0.067894	
			5	0.049837	5	0.068309	
			6	0.045042	6	0.087511	
			7	0.040625	7	0.088174	
			8	0.037819	8	0.100874	
			9	0.035219	9	0.111736	
			10	0.083781	10	0.344874	
			BIAS CORR		0.919249		
			VAR COEFF		0.017731		0.025334
			EFFICIENCY		100.00		100.00
			EFF (M/N)		98.87		83.26
12	13	1	1	0.481069	2	0.058427	
			2	0.097817	3	0.050774	
			3	0.070947	4	0.067408	
			4	0.058467	5	0.068788	
			5	0.044460	6	0.087574	
			6	0.066696	7	0.088159	
			7	0.096637	8	0.100917	



TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	J	LOCATION	J	SCALE
			9	0.035030	9	0.111250
			10	0.083422	10	0.399940
				BIAS CORR		
				0.518697		
				VAR COEFF		0.025341
				EFFICIENCY		99.97
12	10	11	1	0.481486	2	0.080925
			2	0.097447	4	0.089949
			3	0.072013	5	0.068156
			4	0.057598	6	0.082921
			5	0.073427	7	0.087715
			7	0.082745	8	0.101450
			9	0.052155	9	0.110997
			10	0.083131	10	0.400239
				BIAS CORR		
				0.518464		
				VAR COEFF		0.025354
				EFFICIENCY		99.97
12	10	7	1	0.401731	2	0.080464
			2	0.098121	4	0.123601
			3	0.070606	6	0.116776
			4	0.083734	7	0.087190
			6	0.091095	8	0.107347
			8	0.070817	9	0.110331
			10	0.097892	10	0.400639
				BIAS CORR		
				0.510078		
				VAR COEFF		0.025375
				EFFICIENCY		99.89
12	10	6	1	0.412393	2	0.081004
			2	0.129661	4	0.123456
			4	0.121430	6	0.162776
			6	0.091228	8	0.142629
			8	0.077099	9	0.110997
			10	0.098034	10	0.401989
				BIAS CORR		
				0.516340		
				VAR COEFF		0.025409
				EFFICIENCY		99.71
12	10	5	1	0.484469	3	0.124723
			2	0.139103	5	0.143120

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	k	LOCATION	k	SCALE
11	10	4	4	0.145176	7	0.183321
			7	0.127023	9	0.157157
			10	0.112428	10	0.401170
			BIAS CORR	0.916147		
			VAR COEFF	0.012828		0.025470
			EFFICIENCY	99.24		99.47
12	10	4	1	0.526991	3	0.155985
			3	0.161160	6	0.196947
			6	0.165153	8	0.206579
			10	0.127096	10	0.449522
			BIAS CORR	0.914898		
			VAR COEFF	0.012924		0.025569
			EFFICIENCY	98.90		99.08
12	10	3	1	0.567910	5	0.272157
			4	0.248953	8	0.246801
			9	0.183931	10	0.453258
			BIAS CORR	0.498770		
			VAR COEFF	0.013192		0.025795
			EFFICIENCY	96.91		98.21
12	10	2	1	0.669608	6	0.410980
			7	0.330392	10	0.941061
			BIAS CORR	0.464924		
			VAR COEFF	0.013951		0.026424
			EFFICIENCY	91.25		95.87
12	10	1	1	1.000000	10	0.801713
			BIAS CORR	0.298832		
			VAR COEFF	0.017889		0.030454
			EFFICIENCY	71.19		83.19
12	9	4	1	0.489095	1	0.036981
			2	0.098281	2	0.044589
			3	0.072439	3	0.059248
			4	0.057819	4	0.063897
			5	0.051678	5	0.083424
			6	0.044196	6	0.08720
			7	0.041822	7	0.101462
			8	0.037707	8	0.109871

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
			9	0.111248	9	0.524559
			BIAS CORR	0.502600		
			VAR COEFF	0.012843		0.028178
			EFFICIENCY	100.00		100.00
			EFF(M/N)	98.01		74.85
12	9	8	1	0.485380	2	0.064089
			2	0.098189	3	0.059228
			3	0.072884	4	0.063914
			4	0.057205	5	0.083410
			5	0.052324	6	0.084791
			6	0.043784	7	0.101439
			7	0.062360	8	0.109946
			9	0.127874	9	0.524717
			BIAS CORR	0.502092		
			VAR COEFF	0.012850		0.028187
			EFFICIENCY	99.94		99.97
12	9	7	1	0.485714	2	0.090372
			2	0.098122	4	0.095493
			3	0.073160	5	0.083269
			4	0.056973	6	0.085199
			5	0.074788	7	0.100937
			7	0.083240	8	0.110553
			9	0.128003	9	0.524773
			BIAS CORR	0.501858		
			VAR COEFF	0.012859		0.028204
			EFFICIENCY	99.87		99.91
12	9	6	1	0.486233	2	0.090437
			2	0.098175	4	0.136630
			3	0.100198	6	0.126580
			5	0.103852	7	0.100320
			7	0.083368	8	0.111664
			9	0.128174	9	0.524712
			BIAS CORR	0.501867		
			VAR COEFF	0.012873		0.028233
			EFFICIENCY	99.77		99.81
12	9	5	1	0.487566	3	0.137720
			2	0.131118	5	0.159384

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
			4	0.122257	7	0.143253
			6	0.114081	8	0.108414
			9	0.145028	9	0.527139
			BIAS CORR	0.500833		
			VAR COEFF	0.012912		0.028268
			EFFICIENCY	99.47		99.68
12	9	4	1	0.529064	3	0.138023
			3	0.182425	5	0.159996
			6	0.142450	7	0.202690
			9	0.146061	9	0.576047
			BIAS CORR	0.501726		
			VAR COEFF	0.012986		0.028334
			EFFICIENCY	98.89		99.45
12	9	2	1	0.567516	4	0.234046
			4	0.248553	7	0.244022
			9	0.183931	9	0.578971
			BIAS CORR	0.498770		
			VAR COEFF	0.013192		0.028495
			EFFICIENCY	97.35		98.89
12	9	2	1	0.669608	5	0.365262
			7	0.330392	9	0.672036
			BIAS CORR	0.464924		
			VAR COEFF	0.013951		0.028953
			EFFICIENCY	92.05		97.32
12	9	1	1	1.000000	9	0.901332
			BIAS CORR	0.255832		
			VAR COEFF	0.017883		0.031647
			EFFICIENCY	71.81		89.04
12	8	3	1	0.490415	1	0.034489
			2	0.099743	2	0.052123
			3	0.072078	3	0.060584
			4	0.060301	4	0.082071
			5	0.050017	5	0.082216
			6	0.046060	6	0.102843
			7	0.041243	7	0.109863
			8	0.140064	8	0.659253

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.484141	
				VAR COEFF	0.012987	0.031745
				EFFICIENCY	100.00	100.00
				EFF(M/N)	96.93	66.44
12	8	7	1	0.490681	2	0.073834
			2	0.099962	3	0.060562
			3	0.071740	4	0.082096
			4	0.060905	5	0.082199
			5	0.049643	6	0.102928
			6	0.067949	7	0.109841
			8	0.159120	8	0.659520
				BIAS CORR	0.483767	
				VAR COEFF	0.012995	0.031756
				EFFICIENCY	99.94	99.16
12	8	6	1	0.491037	2	0.100711
			2	0.100100	4	0.114388
			3	0.071667	5	0.082055
			4	0.085481	6	0.103347
			6	0.092391	7	0.109328
			8	0.159325	8	0.660201
				BIAS CORR	0.483623	
				VAR COEFF	0.013005	0.031774
				EFFICIENCY	99.86	99.91
12	8	5	1	0.491925	2	0.100774
			2	0.132117	4	0.154924
			4	0.123743	6	0.144123
			6	0.092528	7	0.108719
			8	0.159687	8	0.661233
				BIAS CORR	0.483896	
				VAR COEFF	0.013029	0.031802
				EFFICIENCY	99.67	99.82
12	8	4	1	0.533745	2	0.100858
			3	0.158239	4	0.155418
			5	0.127977	6	0.201545
			8	0.180038	8	0.712451
				BIAS CORR	0.483955	
				VAR COEFF	0.013099	0.031857

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	99.15	99.65
12	8	3	1	0.569792	3	0.193928
			4	0.226720	6	0.243835
			8	0.203487	8	0.714660
				BIAS CORR		0.484226
				VAR COEFF		0.013249
				EFFICIENCY	98.02	99.29
12	8	2	1	0.669608	5	0.338521
			7	0.330392	8	0.769575
				BIAS CORR		0.464924
				VAR COEFF		0.013951
				EFFICIENCY	93.09	98.23
12	8	1	1	1.000000	8	1.006998
				BIAS CORR		0.255892
				VAR COEFF		0.017883
				EFFICIENCY	72.62	92.82
12	7	7	1	0.497452	1	0.039951
			2	0.100530	2	0.056350
			3	0.074521	3	0.076925
			4	0.058983	4	0.081994
			5	0.052503	5	0.103580
			6	0.045512	6	0.111376
			7	0.170499	7	0.804567
				BIAS CORR		0.463712
				VAR COEFF		0.013171
				EFFICIENCY	100.00	100.00
				EFF(M/N)	95.57	58.03
12	7	6	1	0.497812	2	0.081504
			2	0.100463	3	0.076907
			3	0.074810	4	0.082028
			4	0.058744	5	0.103571
			5	0.075855	6	0.111479
			7	0.192317	7	0.809869
				BIAS CORR		0.463429
				VAR COEFF		0.013179
				EFFICIENCY	99.93	99.96

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE			
12	7	5	1	0.498364	2	0.115654			
			2	0.100520	4	0.123047			
			3	0.107692	5	0.103417			
			5	0.105824	6	0.112022			
			7	0.192600	7	0.810135			
			BIAS CORR	0.463386					
			VAR COEFF	0.013194		0.036392			
			EFFICIENCY	99.82		99.88			
			12	7	4	1	0.499961	2	0.115762
						2	0.134193	4	0.174173
4	0.149079	6				0.163451			
7	0.216767	7				0.810749			
BIAS CORR	0.462872								
VAR COEFF	0.013238					0.036436			
EFFICIENCY	99.49					99.76			
12	7	3				1	0.543703	3	0.177236
						3	0.211217	5	0.202588
						7	0.245080	7	0.866299
			BIAS CORR	0.462995					
			VAR COEFF	0.013350		0.036499			
			EFFICIENCY	98.65		99.59			
			12	7	2	1	0.669608	4	0.299689
						7	0.330392	7	0.922394
						BIAS CORR	0.464924		
						VAR COEFF	0.013951		0.036754
EFFICIENCY	94.41					98.90			
12	7	1				1	1.000000	7	1.125249
						BIAS CORR	0.255832		
						VAR COEFF	0.017883		0.038117
						EFFICIENCY	73.65		95.36
						12	6	6	1
			2	0.102876	2				0.068795
			3	0.074484	3				0.082423
			4	0.061390	4				0.103222
			5	0.052243	5				0.114560

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
			6	0.202739	6	0.983486
			BIAS CORR	0.440994		
			VAR COEFF	0.013409		0.042515
			EFFICIENCY	100.00		100.00
			EFF(M/N)	93.87		49.61
12	6	5	1	0.506663	2	0.097617
			2	0.103025	3	0.082404
			3	0.074410	4	0.103264
			4	0.087256	5	0.114555
			6	0.228646	6	0.983977
			BIAS CORR	0.440784		
			VAR COEFF	0.013420		0.042535
			EFFICIENCY	99.92		99.95
12	6	4	1	0.507622	2	0.134214
			2	0.136278	4	0.147223
			4	0.126990	5	0.114393
			6	0.229110	6	0.984866
			BIAS CORR	0.440968		
			VAR COEFF	0.013447		0.042568
			EFFICIENCY	99.72		99.87
12	6	3	1	0.551129	2	0.134350
			3	0.189190	4	0.203800
			6	0.259680	6	1.042491
			BIAS CORR	0.441457		
			VAR COEFF	0.013529		0.042622
			EFFICIENCY	99.11		99.75
12	6	2	1	0.649165	3	0.257513
			6	0.350835	6	1.100579
			BIAS CORR	0.443616		
			VAR COEFF	0.013956		0.042814
			EFFICIENCY	96.08		99.30
12	6	1	1	1.000000	6	1.264094
			BIAS CORR	0.255832		
			VAR COEFF	0.017883		0.043787
			EFFICIENCY	74.98		97.09



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE			
12	5	5	1	0.518147	1	0.055328			
			2	0.104736	2	0.079730			
			3	0.076753	3	0.102269			
			4	0.061934	4	0.119217			
			5	0.238430	5	1.099832			
			BIAS CORR	0.415522					
			VAR COEFF	0.013722		0.051200			
			EFFICIENCY	100.00		100.00			
			EFF(M/N)	91.73		41.20			
			12	5	4	1	0.518761	2	0.114583
2	0.104803	3				0.102259			
3	0.106154	4				0.119277			
5	0.270282	5				1.194477			
BIAS CORR	0.415403								
VAR COEFF	0.013739					0.051230			
EFFICIENCY	99.88					99.94			
12	5	3				1	0.562277	2	0.160028
						3	0.166197	4	0.173859
						5	0.271526	5	1.195487
			BIAS CORR	0.416444					
			VAR COEFF	0.013806		0.051281			
			EFFICIENCY	99.39		99.84			
			12	5	2	1	0.631670	3	0.244986
						5	0.368330	5	1.259105
						BIAS CORR	0.418135		
						VAR COEFF	0.014078		0.051398
EFFICIENCY	97.48					99.62			
12	5	1				1	1.000000	5	1.435794
						BIAS CORR	0.255832		
						VAR COEFF	0.017883		0.052096
						EFFICIENCY	76.73		98.28
						12	4	4	1
			2	0.107977	2				0.099937
			3	0.078568	3				0.124908
			4	0.279274	4				1.463871
			BIAS CORR	0.386486					

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF		0.064338
				EFFICIENCY		100.00
				EFF(M/N)		32.78
12	4	3	1	0.535253	2	0.142960
			2	0.143103	3	0.124910
			4	0.321644	4	1.464842
				BIAS CORR		0.386563
				VAR COEFF		0.014182
				EFFICIENCY		99.79
12	4	2	1	0.616758	2	0.198511
			4	0.383242	4	1.532917
				BIAS CORR		0.388323
				VAR COEFF		0.014352
				EFFICIENCY		99.81
12	4	1	1	1.000000	4	1.662390
				BIAS CORR		0.255832
				VAR COEFF		0.017883
				EFFICIENCY		79.14
12	3	3	1	0.557571	1	0.090006
			2	0.112226	2	0.130780
			3	0.330203	3	1.842788
				BIAS CORR		0.352542
				VAR COEFF		0.014779
				EFFICIENCY		100.00
				EFF(M/N)		85.17
12	3	2	1	0.604376	2	0.187542
			3	0.395624	3	1.844294
				BIAS CORR		0.353347
				VAR COEFF		0.014857
				EFFICIENCY		99.48
12	3	1	1	1.000000	3	1.990776
				BIAS CORR		0.255832
				VAR COEFF		0.017883
				EFFICIENCY		82.64
						99.58

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

M	L	I	LOCATION	I	SCALE		
12	2	2	1	0.595344	1	0.131469	
			2	0.404656	2	2.463075	
			BIAS CORR	0.311071			
			VAR COEFF	0.015799		0.131775	
			EFFICIENCY	100.00		100.00	
		EFF(M/N)	79.67		16.01		
12	2	1	1	1.000000	2	2.548802	
				BIAS CORR	0.255832		
				VAR COEFF	0.017883		0.131947
				EFFICIENCY	88.34		99.87
12	1	1	1	1.000000	1	3.908820	
				BIAS CORR	0.255832		
				VAR COEFF	0.017883		0.273240
				EFFICIENCY	100.00		100.00
				EFF(M/N)	70.39		7.72
13	13	13	1	0.468593	1	0.020578	
			2	0.093852	2	0.030087	
			3	0.068362	3	0.037929	
			4	0.055368	4	0.045041	
			5	0.047863	5	0.051856	
			6	0.042171	6	0.058560	
			7	0.038930	7	0.065455	
			8	0.035505	8	0.072618	
			9	0.033560	9	0.080448	
			10	0.031423	10	0.089240	
			11	0.029819	11	0.099832	
			12	0.028217	12	0.114074	
			13	0.026337	13	0.148437	
				BIAS CORR	0.540117		
	VAR COEFF	0.011493		0.019453			
	EFFICIENCY	100.00		100.00			
	EFF(M/N)	100.00		100.00			
13	13	12	1	0.468874	2	0.043098	
			2	0.093539	3	0.037908	
			3	0.069361	4	0.045057	
			4	0.053830	5	0.051818	
			5	0.049452	6	0.058637	

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
			6	0.041159	7	0.065380
			7	0.058167	8	0.072709
			9	0.049989	9	0.080410
			10	0.031040	10	0.089282
			11	0.030101	11	0.099844
			12	0.028126	12	0.114098
			13	0.026361	13	0.148466
			BIAS CORR	0.539803		
			VAR COEFF	0.011499		0.019456
			EFFICIENCY	99.95		99.98
13	13	11	1	0.468937	2	0.059786
			2	0.094556	4	0.065472
			3	0.066745	5	0.051566
			4	0.058140	6	0.059181
			5	0.045021	7	0.064518
			6	0.063808	8	0.073771
			8	0.072153	9	0.079569
			10	0.046634	10	0.089795
			11	0.029236	11	0.099699
			12	0.028436	12	0.114170
			13	0.026332	13	0.148510
			BIAS CORR	0.539460		
			VAR COEFF	0.011505		0.019463
			EFFICIENCY	99.90		99.95
13	13	10	1	0.469443	2	0.059796
			2	0.093244	4	0.090655
			3	0.070457	6	0.085314
			4	0.052125	7	0.063424
			5	0.071343	8	0.075683
			7	0.078043	9	0.077468
			9	0.068045	10	0.091394
			11	0.042920	11	0.099046
			12	0.027959	12	0.114394
			13	0.026402	13	0.148565
			BIAS CORR	0.539037		
			VAR COEFF	0.011511		0.019472
			EFFICIENCY	99.85		99.90
13	13	9	1	0.469532	2	0.059736

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
			2	0.044861	4	0.091061
			3	0.066350	6	0.118002
			4	0.080438	8	0.106137
			6	0.086362	9	0.076385
			8	0.072343	10	0.092668
			10	0.064887	11	0.098377
			12	0.038898	12	0.114716
			13	0.026334	13	0.148651
			BIAS CORR	0.938321		
			VAR COEFF	0.011520		0.019487
			EFFICIENCY	99.77		99.82
13	13	4	1	0.470508	3	0.091709
			2	0.093369	9	0.109002
			3	0.049082	7	0.132319
			5	0.048269	9	0.116489
			7	0.078264	10	0.089935
			9	0.068434	11	0.101474
			11	0.062489	12	0.113879
			13	0.033989	13	0.148928
			BIAS CORR	0.936571		
			VAR COEFF	0.011837		0.014510
			EFFICIENCY	99.62		99.71
13	13	7	1	0.471461	3	0.113797
			2	0.124727	6	0.144071
			4	0.116419	8	0.147664
			6	0.089489	10	0.126348
			8	0.043145	11	0.098872
			11	0.074446	12	0.115128
			13	0.033771	13	0.149137
			BIAS CORR	0.935304		
			VAR COEFF	0.011968		0.014554
			EFFICIENCY	99.35		99.48
13	13	6	1	0.473044	4	0.153917
			2	0.129757	7	0.161209
			4	0.138741	9	0.165599
			7	0.120291	11	0.137879
			10	0.102391	12	0.114751
			13	0.039907	13	0.144783

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		0.019627
				EFFICIENCY		99.11
13	13	5	1	0.513256	4	0.187917
			3	0.174078	8	0.205010
			6	0.134293	10	0.188770
			9	0.106184	12	0.152088
			12	0.072188	13	0.150644
				BIAS CORR		
				VAR COEFF		0.019762
				EFFICIENCY		98.44
13	13	4	1	0.518353	6	0.294138
			3	0.197389	10	0.251944
			7	0.169678	12	0.153861
			11	0.114581	13	0.152561
				BIAS CORR		
				VAR COEFF		0.020020
				EFFICIENCY		97.17
13	13	3	1	0.558581	7	0.360951
			4	0.260117	11	0.289278
			10	0.181302	13	0.186975
				BIAS CORR		
				VAR COEFF		0.020523
				EFFICIENCY		94.79
13	13	2	1	0.657776	9	0.549763
			7	0.342224	13	0.247182
				BIAS CORR		
				VAR COEFF		0.022224
				EFFICIENCY		87.53
13	13	1	1	1.000000	11	0.782291
				BIAS CORR		
				VAR COEFF		0.028206
				EFFICIENCY		68.97
13	12	12	1	0.470522	1	0.022281
			2	0.094245	2	0.032637

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
			3	0.068608	3	0.040874
			4	0.055677	4	0.049292
			5	0.047895	5	0.055179
			6	0.042550	6	0.064694
			7	0.038859	7	0.069516
			8	0.035791	8	0.079529
			9	0.033572	9	0.086397
			10	0.031530	10	0.096553
			11	0.029811	11	0.107371
			12	0.050940	12	0.261083
			BIAS CORR	0.528616		
			VAR COEFF	0.011541		0.021077
			EFFICIENCY	100.00		100.00
			EFF(M/N)	99.59		92.29
13	12	11	1	0.470808	2	0.046725
			2	0.093930	3	0.040852
			3	0.069615	4	0.049310
			4	0.054126	5	0.055139
			5	0.049497	6	0.064779
			6	0.041529	7	0.069435
			7	0.058251	8	0.079629
			9	0.050133	9	0.086358
			10	0.031144	10	0.096599
			11	0.030095	11	0.107385
			12	0.050870	12	0.261140
			BIAS CORR	0.528288		
			VAR COEFF	0.011546		0.021081
			EFFICIENCY	99.95		99.98
13	12	10	1	0.470866	2	0.064711
			2	0.094949	4	0.071312
			3	0.066992	5	0.054868
			4	0.058448	6	0.065367
			5	0.045054	7	0.068508
			6	0.064150	8	0.080774
			8	0.072413	9	0.085453
			10	0.046746	10	0.097155
			11	0.029229	11	0.107231
			12	0.051155	12	0.261264
			BIAS CORR	0.527964		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF		0.021088
				EFFICIENCY		99.94
13	12	9	1	0.471382	2	0.064724
			2	0.093633	4	0.098111
			3	0.070718	6	0.093177
			4	0.052414	7	0.067344
			5	0.071580	8	0.082812
			7	0.078307	9	0.083220
			9	0.068272	10	0.098860
			11	0.042958	11	0.106540
			12	0.050736	12	0.261560
				BIAS CORR		
				VAR COEFF		0.021099
				EFFICIENCY		99.89
13	12	8	1	0.471461	2	0.064663
			2	0.095253	4	0.098547
			3	0.066597	6	0.127891
			4	0.080762	8	0.115154
			6	0.086720	9	0.082074
			8	0.072602	10	0.100217
			10	0.064989	11	0.105829
			12	0.061616	12	0.261993
				BIAS CORR		
				VAR COEFF		0.021116
				EFFICIENCY		99.81
13	12	7	1	0.472202	3	0.099426
			2	0.124777	5	0.113678
			4	0.116535	7	0.143050
			6	0.086747	9	0.125912
			8	0.072988	10	0.092945
			10	0.065085	11	0.109697
			12	0.061667	12	0.261398
				BIAS CORR		
				VAR COEFF		0.021145
				EFFICIENCY		99.68
13	12	6	1	0.473918	3	0.123155
			2	0.125162	6	0.156163



TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
			4	0.138782	8	0.159815
			7	0.120366	10	0.136441
			10	0.079837	11	0.106397
			12	0.061934	12	0.262957
			BIAS CORR	0.525714		
			VAR COEFF	0.011624		0.021194
			EFFICIENCY	99.28		99.45
13	12	5	1	0.513256	4	0.166991
			3	0.174078	7	0.174320
			6	0.134293	9	0.179108
			9	0.106184	11	0.148647
			12	0.072188	12	0.263258
			BIAS CORR	0.525171		
			VAR COEFF	0.011687		0.021282
			EFFICIENCY	98.75		99.04
13	12	4	1	0.518353	4	0.203681
			3	0.197389	8	0.222156
			7	0.139678	10	0.203781
			11	0.114581	12	0.304381
			BIAS CORR	0.511093		
			VAR COEFF	0.011807		0.021436
			EFFICIENCY	97.75		98.32
13	12	3	1	0.558581	6	0.319171
			4	0.260117	10	0.272487
			10	0.181302	12	0.308403
			BIAS CORR	0.494101		
			VAR COEFF	0.012067		0.021739
			EFFICIENCY	95.64		96.95
13	12	2	1	0.657776	8	0.471905
			7	0.342224	12	0.385110
			BIAS CORR	0.448734		
			VAR COEFF	0.012778		0.022705
			EFFICIENCY	90.32		92.83
13	12	1	1	1.000000	11	0.782291
			BIAS CORR	0.245795		
			VAR COEFF	0.016508		0.028206

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	69.91	74.72
13	11	11	1	0.473287	1	0.024359
			2	0.094721	2	0.035199
			3	0.069275	3	0.046089
			4	0.055322	4	0.050011
			5	0.049298	5	0.066472
			6	0.041401	6	0.062837
			7	0.040259	7	0.082395
			8	0.035180	8	0.082245
			9	0.034069	9	0.095968
			10	0.031446	10	0.103891
			11	0.075741	11	0.371674
				BIAS CORR		
				VAR COEFF		0.023005
				EFFICIENCY	100.00	100.00
				EFF(M/N)	99.01	84.56
13	11	10	1	0.473565	2	0.050602
			2	0.094411	3	0.046066
			3	0.070264	4	0.050031
			4	0.053798	5	0.066431
			5	0.050071	6	0.062928
			6	0.040399	7	0.082310
			7	0.059319	8	0.082355
			9	0.050347	9	0.095928
			10	0.031067	10	0.103944
			11	0.075958	11	0.371752
				BIAS CORR		
				VAR COEFF		0.023011
				EFFICIENCY	99.95	99.98
13	11	9	1	0.473850	2	0.070887
			2	0.094235	4	0.074843
			3	0.070736	5	0.066131
			4	0.053307	6	0.063590
			5	0.071443	7	0.081271
			7	0.078791	8	0.083649
			9	0.051256	9	0.094913
			10	0.029931	10	0.104574
			11	0.076451	11	0.371720

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.514839	
				VAR COEFF	0.011619	0.023020
				EFFICIENCY	99.90	99.94
13	11	8	1	0.474124	2	0.050262
			2	0.094118	3	0.069919
			3	0.071351	5	0.123766
			4	0.052102	7	0.114486
			5	0.072375	8	0.079035
			7	0.078828	9	0.099887
			9	0.068434	10	0.101198
			11	0.088668	11	0.373204
				BIAS CORR	0.514208	
				VAR COEFF	0.011626	0.023034
				EFFICIENCY	99.85	99.88
13	11	7	1	0.474543	3	0.107795
			2	0.094141	5	0.123752
			3	0.095864	7	0.115035
			5	0.099122	8	0.078344
			7	0.078898	9	0.100510
			9	0.068791	10	0.100912
			11	0.088641	11	0.373578
				BIAS CORR	0.514307	
				VAR COEFF	0.011636	0.023053
				EFFICIENCY	99.76	99.80
13	11	6	1	0.475538	3	0.107908
			2	0.125816	5	0.124442
			4	0.117403	7	0.156504
			6	0.086598	9	0.136749
			8	0.093771	10	0.100296
			11	0.100874	11	0.374361
				BIAS CORR	0.512902	
				VAR COEFF	0.011668	0.023079
				EFFICIENCY	99.48	99.68
13	11	5	1	0.477947	3	0.107848
			2	0.126423	5	0.125697
			4	0.138859	7	0.156959
			7	0.142906	9	0.194749

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
			11	0.113864	11	0.416397
			BIAS CORR	0.510209		
			VAR COEFF	0.011721		0.023148
			EFFICIENCY	99.04		99.38
13	11	4	1	0.518353	4	0.181123
			3	0.197389	7	0.191464
			7	0.169678	9	0.194282
			11	0.114581	11	0.418508
			BIAS CORR	0.511093		
			VAR COEFF	0.011807		0.023244
			EFFICIENCY	98.32		98.97
13	11	3	1	0.558581	5	0.281597
			4	0.260117	9	0.265954
			10	0.181302	11	0.421640
			BIAS CORR	0.494101		
			VAR COEFF	0.012067		0.023460
			EFFICIENCY	96.20		98.06
13	11	2	1	0.657776	7	0.422499
			7	0.342224	11	0.505055
			BIAS CORR	0.448734		
			VAR COEFF	0.012778		0.024092
			EFFICIENCY	90.85		95.49
13	11	1	1	1.000000	11	0.782291
			BIAS CORR	0.245795		
			VAR COEFF	0.016508		0.028206
			EFFICIENCY	70.32		81.56
13	10	10	1	0.476337	1	0.026567
			2	0.095719	2	0.040237
			3	0.068745	3	0.045077
			4	0.058079	4	0.067585
			5	0.046073	5	0.053877
			6	0.045430	6	0.089089
			7	0.037725	7	0.075481
			8	0.036864	8	0.098135
			9	0.033558	9	0.101522
			10	0.100970	10	0.485841

TABLE II:

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		0.025326
				EFFICIENCY		100.00
				EFF(M/N)		76.61
13	10	9	1	0.476990	2	0.057039
			2	0.096081	3	0.045052
			3	0.068008	4	0.067611
			4	0.059139	5	0.053830
			5	0.045226	6	0.089194
			6	0.065274	7	0.075386
			8	0.054989	8	0.098259
			9	0.032844	9	0.101480
			10	0.101450	10	0.485987
				BIAS CORR		
				VAR COEFF		0.025333
				EFFICIENCY		99.97
13	10	8	1	0.477171	2	0.076876
			2	0.096408	4	0.091876
			3	0.067157	5	0.053537
			4	0.060803	6	0.089840
			5	0.043279	7	0.074371
			6	0.066417	8	0.099522
			8	0.072945	9	0.100486
			10	0.115819	10	0.486571
				BIAS CORR		
				VAR COEFF		0.025341
				EFFICIENCY		99.94
13	10	7	1	0.477407	2	0.076889
			2	0.096559	4	0.118023
			3	0.067015	6	0.116959
			4	0.082029	7	0.073257
			6	0.087870	8	0.101498
			8	0.073142	9	0.098311
			10	0.115979	10	0.487850
				BIAS CORR		
				VAR COEFF		0.025351
				EFFICIENCY		99.85

**TABLE II**  
**COEFFICIENTS FOR ESTIMATION OF**  
**LOCATION AND SCALE PARAMETERS OF A**  
**WEIBULL POPULATION FROM L-ORDER STATISTICS**  
**(SAMPLE SIZES 11 TO 13)**

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE			
13	10	6	1	0.478157	2	0.076830			
			2	0.126270	4	0.118505			
			4	0.118028	6	0.154727			
			6	0.087898	8	0.136687			
			8	0.073530	9	0.097075			
			10	0.116118	10	0.487037			
			BIAS CORR	0.500101					
			VAR COEFF	0.011734		0.025372			
			EFFICIENCY	99.68		99.82			
			13	10	5	1	0.479928	2	0.076575
2	0.126667	4				0.119340			
4	0.140689	6				0.155443			
7	0.121458	8				0.189991			
10	0.131258	10				0.532360			
BIAS CORR	0.498469								
VAR COEFF	0.011772					0.025421			
EFFICIENCY	99.36					99.63			
13	10	4				1	0.520476	4	0.165758
						3	0.175273	6	0.155609
			6	0.157666	8	0.190525			
			10	0.146585	10	0.533701			
			BIAS CORR	0.498176					
			VAR COEFF	0.011847		0.025486			
			EFFICIENCY	98.73		99.37			
			13	10	3	1	0.558581	4	0.243724
						4	0.260117	8	0.263853
						10	0.181302	10	0.536900
BIAS CORR	0.494101								
VAR COEFF	0.012067					0.025661			
EFFICIENCY	96.93					98.69			
13	10	2				1	0.657776	6	0.381903
						7	0.342224	10	0.623635
						BIAS CORR	0.448734		
						VAR COEFF	0.012778		0.026087
			EFFICIENCY	91.54		97.08			
			13	10	1	1	1.000000	10	0.874048

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.245795		
				0.016508		0.028901
				70.85		87.63
13	9	9	1	0.481484	1	0.030084
			2	0.095896	2	0.040858
			3	0.071776	3	0.062733
			4	0.053759	4	0.049331
			5	0.052840	5	0.093478
			6	0.040151	6	0.068810
			7	0.041428	7	0.101683
			8	0.035545	8	0.100300
			9	0.127123	9	0.607284
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.483946		
				0.011808		0.029171
				100.00		100.00
				97.33		69.05
13	9	7	1	0.481766	2	0.059884
			2	0.095585	3	0.062710
			3	0.072769	4	0.049355
			4	0.052234	5	0.093437
			5	0.054408	6	0.068923
			6	0.039159	7	0.101584
			7	0.060675	8	0.100441
			9	0.143404	9	0.607407
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.483626		
				0.011814		0.028179
				99.95		99.97
13	9	5	1	0.482035	2	0.059829
			2	0.095419	3	0.085894
			3	0.073204	5	0.119073
			4	0.051803	6	0.068289
			5	0.074315	7	0.102928
			7	0.079548	8	0.098586
			9	0.143676	9	0.608667
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.483523		
				0.011819		0.028188
				99.91		99.94

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE				
13	9	6	1	0.482450	2	0.059535				
			2	0.095441	3	0.086282				
			3	0.097576	5	0.153423				
			5	0.100908	7	0.136691				
			7	0.079616	8	0.097059				
			9	0.144008	9	0.610105				
			BIAS CORR		0.483629					
			VAR COEFF		0.011829		0.028205			
			EFFICIENCY		99.82		99.88			
			13	9	5	1	0.483716	3	0.131168	
2	0.128234	5				0.153428				
4	0.118245	7				0.137357				
6	0.109176	8				0.096259				
9	0.160629	9				0.611081				
BIAS CORR		0.482648								
VAR COEFF		0.011865					0.028231			
EFFICIENCY		99.52					99.79			
13	9	4				1	0.523712	3	0.131344	
						3	0.177866	5	0.154310	
			6	0.136259	7	0.188354				
			9	0.162164	9	0.655884				
			BIAS CORR		0.483730					
			VAR COEFF		0.011927		0.028271			
			EFFICIENCY		99.00		99.65			
			13	9	3	1	0.560460	4	0.219790	
						4	0.238730	7	0.232136	
						9	0.200810	9	0.658301	
BIAS CORR		0.481998								
VAR COEFF		0.012095					0.028426			
EFFICIENCY		97.63					99.10			
13	9	2				1	0.657776	5	0.343611	
						7	0.342224	9	0.748601	
						BIAS CORR		0.448734		
						VAR COEFF		0.012778		0.028726
			EFFICIENCY		92.41		98.07			
			13	9	1	1	1.000000	9	0.969420	



TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.245795	
				VAR COEFF	0.016508	0.030745
				EFFICIENCY	71.53	91.63
13	0	0	1	0.486988	1	0.032715
			2	0.098244	2	0.052457
			3	0.068939	3	0.051047
			4	0.060735	4	0.089292
			5	0.046319	5	0.067287
			6	0.045602	6	0.103980
			7	0.039347	7	0.100875
			8	0.153827	8	0.734892
				BIAS CORR	0.465888	
				VAR COEFF	0.011949	0.031739
				EFFICIENCY	100.00	100.00
				EFF(M/N)	96.19	61.29
12	0	7	1	0.487158	2	0.073150
			2	0.098618	3	0.051019
			3	0.068190	4	0.089326
			4	0.061805	5	0.067237
			5	0.045483	6	0.104110
			6	0.066272	7	0.100768
			8	0.172474	8	0.740186
				BIAS CORR	0.465642	
				VAR COEFF	0.011954	0.031749
				EFFICIENCY	99.95	99.97
13	0	6	1	0.487421	2	0.095624
			2	0.098779	4	0.116768
			3	0.068043	5	0.066978
			4	0.084115	6	0.104789
			6	0.088818	7	0.099634
			8	0.172824	8	0.741161
				BIAS CORR	0.465597	
				VAR COEFF	0.011962	0.031760
				EFFICIENCY	99.89	99.93
13	0	0	1	0.488195	2	0.095662
			2	0.12949	4	0.149479
			4	0.120668	6	0.138679

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
			6	0.088848	7	0.098342
			8	0.173339	8	0.742534
			BIAS CORR	0.465922		
			VAR COEFF	0.011982		0.031776
			EFFICIENCY	99.72		99.88
13	8	4		0.490509	2	0.095617
				0.129399	4	0.150161
			4	0.165121	6	0.184422
			8	0.214972	8	0.789822
			BIAS CORR	0.464315		
			VAR COEFF	0.012039		0.031813
			EFFICIENCY	99.25		99.77
13	8	3	1	0.563059	4	0.208256
			4	0.219797	6	0.189736
			8	0.217144	8	0.792377
			BIAS CORR	0.466881		
			VAR COEFF	0.012165		0.031914
			EFFICIENCY	98.22		99.45
13	8	2	1	0.657776	4	0.303757
			7	0.342224	8	0.886309
			BIAS CORR	0.448734		
			VAR COEFF	0.012778		0.032175
			EFFICIENCY	93.51		98.64
13	8	1	1	1.000000	8	1.073582
			BIAS CORR	0.245795		
			VAR COEFF	0.016508		0.033633
			EFFICIENCY	72.38		94.37
13	7	7	1	0.494434	1	0.038854
			2	0.098170	2	0.051793
			3	0.073685	3	0.078693
			4	0.055982	4	0.071581
			5	0.051844	5	0.103329
			6	0.043392	6	0.103418
			7	0.182493	7	0.889305
			BIAS CORR	0.446033		
			VAR COEFF	0.012125		0.036344

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				EFFICIENCY		53.52
				EFF(M/N)		
13	7	6	1	0.494759	2	0.076370
			2	0.097991	3	0.078673
			3	0.074170	4	0.071613
			4	0.055512	5	0.103286
			5	0.073902	6	0.103573
			7	0.203667	7	0.889549
				BIAS CORR		
				0.445841		
				VAR COEFF		0.036358
				0.012132		
				EFFICIENCY		99.96
				99.94		
13	7	5	1	0.495235	2	0.076328
			2	0.098021	3	0.112314
			3	0.100294	5	0.140439
			5	0.102403	6	0.102757
			7	0.204048	7	0.890684
				BIAS CORR		
				0.445862		
				VAR COEFF		0.036377
				0.012143		
				EFFICIENCY		99.91
				99.85		
13	7	4	1	0.496733	2	0.075931
			2	0.131175	3	0.112925
			4	0.144059	5	0.192169
			7	0.228032	7	0.941530
				BIAS CORR		
				0.445452		
				VAR COEFF		0.036415
				0.012182		
				EFFICIENCY		99.81
				99.53		
13	7	3	1	0.538715	3	0.170215
			3	0.204970	5	0.192211
			7	0.256315	7	0.942725
				BIAS CORR		
				0.445945		
				VAR COEFF		0.036457
				0.012273		
				EFFICIENCY		99.69
				98.79		
13	7	2	1	0.657776	4	0.283767
			7	0.342224	7	0.997910
				BIAS CORR		
				0.448734		
				VAR COEFF		0.036678
				0.012778		

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	94.89	99.09
13	7	1	1	1.000000	7	1.192186
				BIAS CORR	0.245795	
				VAR COEFF	0.016508	0.037745
				EFFICIENCY	73.45	96.29
13	6	4	1	0.503335	1	0.043645
			2	0.101198	2	0.067279
			3	0.072249	3	0.076316
			4	0.060078	4	0.100805
			5	0.050464	5	0.107729
			6	0.212676	6	1.063695
				BIAS CORR	0.424027	
				VAR COEFF	0.012351	0.042512
				EFFICIENCY	100.00	100.00
				EFF(M/N)	93.06	45.76
13	6	5	1	0.503663	2	0.094893
			2	0.101383	3	0.076293
			3	0.072094	4	0.100851
			4	0.084833	5	0.107683
			6	0.238027	6	1.064165
				BIAS CORR	0.423884	
				VAR COEFF	0.012360	0.042523
				EFFICIENCY	99.93	99.96
13	6	4	1	0.504535	2	0.128529
			2	0.133363	4	0.141879
			4	0.123572	5	0.107366
			6	0.238530	6	1.055057
				BIAS CORR	0.424097	
				VAR COEFF	0.012383	0.042554
				EFFICIENCY	99.75	99.90
13	6	3	1	0.546968	2	0.128639
			3	0.184238	4	0.194365
			6	0.268794	6	1.119700
				BIAS CORR	0.424656	
				VAR COEFF	0.012454	0.042595
				EFFICIENCY	99.17	99.80

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
13	6	2	1	0.640189	3	0.244643
			6	0.359811	6	1.176237
			BIAS CORR	0.427279		
			VAR COEFF	0.012816		0.042757
			EFFICIENCY	96.37		99.43
13	6	1	1	1.000000	6	1.333079
			BIAS CORR	0.245795		
			VAR COEFF	0.016508		0.043539
			EFFICIENCY	74.82		97.64
13	5	5	1	0.515494	1	0.053319
			2	0.102741	2	0.075873
			3	0.075096	3	0.098498
			4	0.060124	4	0.113224
			5	0.246546	5	1.276144
			BIAS CORR	0.399431		
			VAR COEFF	0.012646		0.051197
			EFF(M/N)	100.00		100.00
13	5	4	1	0.516051	2	0.109616
			2	0.102783	3	0.098482
			3	0.103396	4	0.113287
			4	0.277769	5	1.276719
			5	0.399360		
			BIAS CORR	0.012660		0.051223
			EFFICIENCY	99.89		99.95
13	5	3	1	0.558399	2	0.153060
			3	0.162594	4	0.166274
			5	0.279007	5	1.277576
			BIAS CORR	0.400373		
			VAR COEFF	0.012719		0.051265
EFFICIENCY	99.43		99.87			
13	5	2	1	0.624903	3	0.234546
			5	0.375097	5	1.338404
			BIAS CORR	0.402255		
VAR COEFF	0.012951		0.051360			

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	97.64	99.68
13	5	1	1	1.000000	5	1.508492
				BIAS CORR	0.245795	
				VAR COEFF	0.016508	0.051933
				EFFICIENCY	76.61	98.58
13	4	4	1	0.531672	1	0.065514
			2	0.106098	2	0.095883
			3	0.076778	3	0.119308
			4	0.285453	4	1.550607
				BIAS CORR	0.371440	
				VAR COEFF	0.013049	0.064335
				EFFICIENCY	100.00	100.00
				EFF(M/N)	88.08	30.24
13	4	3	1	0.532663	2	0.137358
			2	0.140171	3	0.119300
			4	0.327166	4	1.551479
				BIAS CORR	0.371549	
				VAR COEFF	0.013074	0.064375
				EFFICIENCY	99.81	99.94
13	4	2	1	0.611780	2	0.190016
			4	0.388220	4	1.616846
				BIAS CORR	0.373315	
				VAR COEFF	0.013222	0.064436
				EFFICIENCY	98.69	99.84
13	4	1	1	1.000000	4	1.741348
				BIAS CORR	0.245795	
				VAR COEFF	0.016508	0.064836
				EFFICIENCY	79.05	99.23
13	3	3	1	0.555222	1	0.086438
			2	0.110325	2	0.121295
			3	0.334454	3	1.921101
				BIAS CORR	0.338765	
				VAR COEFF	0.013633	0.086507
				EFFICIENCY	100.00	100.00
				EFF(M/N)	84.31	22.49

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.00

N	M	L	I	LOCATION		SCALE
13	3	2	1	0.600879	2	0.180048
			3	0.399121	3	1.939240
			BIAS CORR	0.339563		
			VAR COEFF	0.013701		0.086575
			EFFICIENCY	99.50		99.92
13	3	1	1	1.000000	3	2.080164
			BIAS CORR	0.245795		
			VAR COEFF	0.016508		0.086814
			EFFICIENCY	82.58		99.65
13	2	2	1	0.593114	1	0.126221
			2	0.406886	2	2.575211
			BIAS CORR	0.298884		
			VAR COEFF	0.014579		0.131774
			EFFICIENCY	100.00		100.00
			EFF(M/N)	78.83		14.76
13	2	1	1	1.000000	2	2.657664
			BIAS CORR	0.245795		
			VAR COEFF	0.016508		0.131919
			EFFICIENCY	88.32		99.89
13	1	1	1	1.000000	1	4.068429
			BIAS CORR	0.245795		
			VAR COEFF	0.016508		0.273240
			EFFICIENCY	100.00		100.00
			EFF(M/N)	69.62		7.12

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER \* 2.50

N	M	L	I	LOCATION	I	SCALE		
11	11	11	1	0.320265	1	0.019444		
			2	0.097587	2	0.031919		
			3	0.079747	3	0.042860		
			4	0.070917	4	0.053318		
			5	0.066065	5	0.063864		
			6	0.062823	6	0.074826		
			7	0.061130	7	0.086787		
			8	0.059923	8	0.100275		
			9	0.059553	9	0.116699		
			10	0.059795	10	0.138989		
			11	0.062195	11	0.193472		
	BIAS CORR		0.722347					
	VAR COEFF		0.011612		0.014830			
	EFFICIENCY		100.00		100.00			
	EFF(M/N)		100.00		100.00			
11	11	10	1	0.320692	2	0.045040		
			2	0.097494	3	0.042835		
			3	0.080243	4	0.053333		
			4	0.070512	5	0.063841		
			5	0.098099	6	0.074887		
			7	0.091461	7	0.086766		
			8	0.059535	8	0.100348		
			9	0.059968	9	0.116723		
			10	0.059707	10	0.139032		
			11	0.062289	11	0.193530		
				BIAS CORR		0.722091		
	VAR COEFF		0.011626		0.014834			
	EFFICIENCY		99.88		99.97			
11	11	9	1	0.321001	2	0.063201		
			2	0.098167	4	0.076874		
			3	0.079130	5	0.063673		
			4	0.103700	6	0.075273		
			6	0.128030	7	0.086347		
			8	0.088492	8	0.107771		
			9	0.058989	9	0.116601		
			10	0.060188	10	0.139157		
			11	0.062302	11	0.193632		
				BIAS CORR		0.721811		
				VAR COEFF		0.011642		0.014842



TABLE 11  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	99.74	99.91
11	11	8	1	0.321697	2	0.063238
			2	0.097507	4	0.107766
			3	0.113119	6	0.107311
			5	0.135129	7	0.085816
			7	0.124763	8	0.101549
			9	0.085643	9	0.116231
			10	0.059660	10	0.139449
			11	0.062483	11	0.193794
				BIAS CORR		0.014857
				VAR COEFF		99.82
				EFFICIENCY	99.57	
11	11	7	1	0.322350	3	0.102683
			2	0.132223	5	0.129518
			4	0.147645	7	0.123758
			6	0.128582	8	0.099253
			8	0.124047	9	0.117943
			10	0.082647	10	0.139148
			11	0.062505	11	0.194182
				BIAS CORR		0.014882
				VAR COEFF		99.65
				EFFICIENCY	99.30	
11	11	6	1	0.324405	3	0.102983
			2	0.133053	5	0.130100
			4	0.179559	7	0.179043
			7	0.157027	9	0.160650
			9	0.126554	10	0.139454
			11	0.079402	11	0.194783
				BIAS CORR		0.014929
				VAR COEFF		99.33
				EFFICIENCY	98.71	
11	11	5	1	0.362399	4	0.183983
			3	0.204517	7	0.212548
			6	0.200859	9	0.161117
			9	0.152278	10	0.140604
			11	0.079947	11	0.195810
				BIAS CORR		0.718218

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF		0.015013
				EFFICIENCY		98.78
11	11	4	1	0.368853	5	0.246467
			3	0.238744	8	0.249082
			7	0.233830	10	0.186891
			10	0.158572	11	0.197824
				BIAS CORR		
				VAR COEFF		0.015175
				EFFICIENCY		97.72
11	11	3	1	0.411127	6	0.321379
			4	0.319336	9	0.302272
			9	0.269537	11	0.242189
				BIAS CORR		
				VAR COEFF		0.015547
				EFFICIENCY		95.38
11	11	2	1	0.524233	8	0.527511
			7	0.475767	11	0.291160
				BIAS CORR		
				VAR COEFF		0.016677
				EFFICIENCY		88.92
11	11	1	3	1.000000	9	0.859223
				BIAS CORR		
				VAR COEFF		0.021315
				EFFICIENCY		69.57
11	10	10	1	0.324168	1	0.021378
			2	0.098785	2	0.035152
			3	0.080645	3	0.046917
			4	0.071904	4	0.059091
			5	0.066612	5	0.069410
			6	0.063769	6	0.082957
			7	0.061614	7	0.094625
			8	0.060572	8	0.110101
			9	0.059917	9	0.127209
			10	0.112013	10	0.327109
				BIAS CORR		
				VAR COEFF		0.016321

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				98.79		90.86
				EFFICIENCY		
				EFF(M/N)		
11	10	9	1	0.324607	2	0.049580
			2	0.098693	3	0.046891
			3	0.081150	4	0.059109
			4	0.071495	5	0.069387
			5	0.099130	6	0.083027
			7	0.092403	7	0.094606
			8	0.060179	8	0.110164
			9	0.060339	9	0.127239
			10	0.112004	10	0.327219
				BIAS CORR		
				0.701142		
				VAR COEFF		
				0.011769		
				EFFICIENCY		
				99.88		
				0.016326		
				99.97		
11	10	8	1	0.324917	2	0.069465
			2	0.099372	4	0.084824
			3	0.080025	5	0.069206
			4	0.104961	6	0.083454
			6	0.129507	7	0.094149
			8	0.089369	8	0.110632
			9	0.059350	9	0.127111
			10	0.112499	10	0.327454
				BIAS CORR		
				0.700857		
				VAR COEFF		
				0.011784		
				EFFICIENCY		
				99.74		
				0.016336		
				99.91		
11	10	7	1	0.325637	2	0.069511
			2	0.098710	4	0.118470
			3	0.114488	6	0.118286
			5	0.136681	7	0.093580
			7	0.126070	8	0.111486
			9	0.086295	9	0.126718
			10	0.112121	10	0.327952
				BIAS CORR		
				0.700434		
				VAR COEFF		
				0.011805		
				EFFICIENCY		
				99.57		
				0.016353		
				99.80		
11	10	6	1	0.326291	3	0.112996
			2	0.133818	5	0.142238

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
			4	0.149407	7	0.135658
			6	0.130069	8	0.108936
			8	0.125146	9	0.128629
			10	0.135269	10	0.328047
			BIAS CORR	0.699890		
			VAR COEFF	0.011837		0.016384
			EFFICIENCY	99.30		99.61
11	10		1	0.364559	3	0.113360
			3	0.174402	5	0.142921
			5	0.170933	7	0.196423
			8	0.153771	9	0.175574
			10	0.136335	10	0.329026
			BIAS CORR	0.700590		
			VAR COEFF	0.011923		0.016441
			EFFICIENCY	98.59		99.27
11	10	4	1	0.368853	4	0.202566
			3	0.238744	7	0.233255
			7	0.233830	9	0.176172
			10	0.158572	10	0.331383
			BIAS CORR	0.697844		
			VAR COEFF	0.012072		0.016542
			EFFICIENCY	97.37		98.66
11	10		1	0.411127	5	0.271230
			4	0.319336	8	0.273321
			9	0.269537	10	0.384115
			BIAS CORR	0.673869		
			VAR COEFF	0.012482		0.016737
			EFFICIENCY	94.17		97.51
11	10	7	1	0.524233	6	0.437492
			7	0.475767	10	0.476181
			BIAS CORR	0.633299		
			VAR COEFF	0.013619		0.017390
			EFFICIENCY	86.31		93.85
11	10	1	3	1.000000	9	0.859273
			BIAS CORR	0.594895		
			VAR COEFF	0.020041		0.021315

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		76.57
				58.65		
11	9	9	1	0.329603	1	0.023803
			2	0.100307	2	0.038685
			3	0.082370	3	0.053392
			4	0.072204	4	0.062855
			5	0.068797	5	0.080639
			6	0.063697	6	0.088652
			7	0.063045	7	0.106552
			8	0.061009	8	0.120649
			9	0.158968	9	0.454836
				BIAS CORR		
				VAR COEFF		0.018158
				EFFICIENCY		100.00
				EFF(M/N)		81.67
11	9	8	1	0.330042	2	0.054751
			2	0.100215	3	0.053366
			3	0.082874	4	0.062877
			4	0.071796	5	0.080617
			5	0.101278	6	0.088732
			7	0.093799	7	0.106536
			8	0.060616	8	0.120722
			9	0.159381	9	0.454993
				BIAS CORR		
				VAR COEFF		0.018165
				EFFICIENCY		99.96
11	9	7	1	0.330356	2	0.077388
			2	0.100916	4	0.092217
			3	0.081742	5	0.080421
			4	0.106346	6	0.089273
			6	0.131288	7	0.106026
			8	0.090485	8	0.121265
			9	0.158826	9	0.455127
				BIAS CORR		
				VAR COEFF		0.018178
				EFFICIENCY		99.89
11	9	6	1	0.331082	2	0.077455
			2	0.100233	4	0.131267

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
			3	0.116355	6	0.129719
			5	0.138990	7	0.105385
			7	0.127711	8	0.122276
			9	0.185629	9	0.455239
			BIAS CORR	0.676926		
			VAR COEFF	0.012002		0.018200
			EFFICIENCY	99.57		99.77
11	9	1	1	0.332695	3	0.125288
			2	0.136438	5	0.158368
			4	0.183895	7	0.150458
			7	0.160503	8	0.119492
			9	0.186469	9	0.457385
			BIAS CORR	0.676787		
			VAR COEFF	0.012065		0.018232
			EFFICIENCY	99.06		99.59
11	9	2	1	0.371694	3	0.125728
			3	0.209718	5	0.159159
			6	0.205407	7	0.217148
			9	0.213181	9	0.509946
			BIAS CORR	0.677259		
			VAR COEFF	0.012160		0.018301
			EFFICIENCY	98.28		99.22
11	9	3	1	0.411127	4	0.224531
			4	0.319336	7	0.258872
			9	0.269537	9	0.513338
			BIAS CORR	0.673869		
			VAR COEFF	0.012482		0.018430
			EFFICIENCY	95.75		98.52
11	9	2	1	0.524233	6	0.387421
			7	0.475767	9	0.570742
			BIAS CORR	0.633299		
			VAR COEFF	0.013619		0.018857
			EFFICIENCY	87.75		96.29
11	9	1	3	1.000000	9	0.859223
			BIAS CORR	0.594895		
			VAR COEFF	0.020041		0.021315

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	59.63	85.19
11	8	3	1	0.336579	1	0.026593
			2	0.102796	2	0.044691
			3	0.082870	3	0.056199
			4	0.075839	4	0.077451
			5	0.067658	5	0.082652
			6	0.066611	6	0.104825
			7	0.063231	7	0.116435
			8	0.204416	8	0.584692
				BIAS CORR		
				VAR COEFF		0.020467
				EFFICIENCY	100.00	100.00
				EFF(M/N)	95.13	72.45
11	8	7	1	0.336965	2	0.062643
			2	0.103160	3	0.056170
			3	0.082374	4	0.077430
			4	0.076726	5	0.082628
			5	0.067065	6	0.104921
			6	0.100258	7	0.116421
			8	0.233451	8	0.584952
				BIAS CORR		
				VAR COEFF		0.020476
				EFFICIENCY	99.87	99.96
11	8	6	1	0.337361	2	0.086472
			2	0.103400	4	0.108367
			3	0.082242	5	0.082423
			4	0.109425	6	0.105443
			6	0.133729	7	0.115887
			8	0.233842	8	0.585667
				BIAS CORR		
				VAR COEFF		0.020490
				EFFICIENCY	99.74	99.89
11	8	5	1	0.338149	2	0.086544
			2	0.138590	4	0.148394
			4	0.154736	6	0.146951
			6	0.134058	7	0.115233
			8	0.234467	8	0.586820

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.652137	
				VAR COEFF	0.012269	0.020514
				EFFICIENCY	99.49	99.77
11	8	4	1	0.377962	2	0.086662
			3	0.180600	4	0.149011
			5	0.176524	6	0.207951
			8	0.264914	8	0.640818
				BIAS CORR	0.652484	
				VAR COEFF	0.012361	0.020567
				EFFICIENCY	98.75	99.52
11	3	3	1	0.413823	3	0.177972
			4	0.286590	6	0.249904
			3	0.299587	8	0.643350
				BIAS CORR	0.654003	
				VAR COEFF	0.012568	0.020659
				EFFICIENCY	97.13	99.07
11	5	2	1	0.524233	5	0.336445
			7	0.475767	8	0.700615
				BIAS CORR	0.633299	
				VAR COEFF	0.01319	0.020942
				EFFICIENCY	89.63	97.74
11	8	1	3	1.000000	8	0.949517
				BIAS CORR	0.594895	
				VAR COEFF	0.020041	0.022568
				EFFICIENCY	60.91	90.69
11	7	7	1	0.345692	1	0.030770
			2	0.104741	2	0.048627
			3	0.087012	3	0.070534
			4	0.074615	4	0.078358
			5	0.072043	5	0.102924
			6	0.066471	6	0.113978
			7	0.249425	7	0.722384
				BIAS CORR	0.623934	
				VAR COEFF	0.012534	0.023454
				EFFICIENCY	100.00	100.00
				EFF(M/N)	92.65	63.23



TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WFI BULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE			
11	7	6	1	0.346167	2	0.059403			
			2	0.104652	3	0.070578			
			3	0.087539	4	0.078392			
			4	0.074199	5	0.102908			
			5	0.105939	6	0.114093			
			7	0.281504	7	0.722680			
			BIAS CORR		0.623566				
			VAR COEFF		0.012550		0.023466		
EFFICIENCY		99.87		99.95					
11	7	5	1	0.346742	2	0.099335			
			2	0.104732	4	0.117177			
			3	0.121847	5	0.102681			
			5	0.144607	6	0.114763			
			7	0.282072	7	0.722939			
			BIAS CORR		0.623674				
			VAR COEFF		0.012570		0.023458		
			EFFICIENCY		99.71		99.86		
11	7	4	1	0.348495	2	0.099455			
			2	0.142697	4	0.167087			
			4	0.191945	6	0.166521			
			7	0.316863	7	0.723613			
			BIAS CORR		0.623285				
			VAR COEFF		0.012638		0.023526		
			EFFICIENCY		99.17		99.70		
			11	7	3	1	0.390737	3	0.161237
3	0.252397	5				0.201789			
7	0.356865	7				0.780858			
BIAS CORR		0.624333							
VAR COEFF		0.012793					0.023575		
EFFICIENCY		97.98					99.49		
11	7	2				1	0.524233	4	0.286911
						7	0.475767	7	0.838503
			BIAS CORR		0.633299				
			VAR COEFF		0.013619		0.023784		
			EFFICIENCY		92.03		98.61		
			11	7	1	3	1.000000	7	1.045521

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

K	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.594895	
				VAR COEFF	0.020041	0.024907
				EFFICIENCY	62.54	94.17
11	6	0	1	0.357090	1	0.035235
			2	0.109082	2	0.059612
			3	0.087639	3	0.075037
			4	0.079446	4	0.099364
			5	0.072249	5	0.113240
			6	0.294493	6	0.874255
				BIAS CORR	0.592827	
				VAR COEFF	0.012956	0.027465
				EFFICIENCY	100.00	100.00
				EFF(M/N)	89.63	53.99
11	6		1	0.357553	2	0.083409
			2	0.109352	3	0.075010
			3	0.087506	4	0.099413
			4	0.114682	5	0.113226
			6	0.330907	6	0.874744
				BIAS CORR	0.592619	
				VAR COEFF	0.012974	0.027480
				EFFICIENCY	99.86	99.95
11	6	4	1	0.358449	2	0.115257
			2	0.146817	4	0.140683
			4	0.162917	5	0.112989
			6	0.331817	6	0.875747
				BIAS CORR	0.593127	
				VAR COEFF	0.013009	0.027506
				EFFICIENCY	99.59	99.85
11	6	2	1	0.400917	2	0.115406
			3	0.224959	4	0.195633
			6	0.374124	6	0.933487
				BIAS CORR	0.594366	
				VAR COEFF	0.013118	0.027551
				EFFICIENCY	98.76	99.69
11	6	2	1	0.503620	3	0.236074
			6	0.496380	6	0.991857

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.601409	
				VAR COEFF	0.013696	0.027706
				EFFICIENCY	94.60	99.13
11	6	1	3	1.000000	6	1.153912
				BIAS CORR	0.594895	
				VAR COEFF	0.020041	0.028478
				EFFICIENCY	64.65	96.44
11	5	2	1	0.372482	1	0.042751
			2	0.112797	2	0.068596
			3	0.092456	3	0.094147
			4	0.081071	4	0.113739
			5	0.341194	5	1.049460
				BIAS CORR	0.558182	
				VAR COEFF	0.013512	0.033131
				EFFICIENCY	100.00	100.00
				EFF(M/N)	85.94	44.76
11	5	4	1	0.373168	2	0.097478
			2	0.112903	3	0.094127
			3	0.129960	4	0.113808
			5	0.383969	5	1.050078
				BIAS CORR	0.558156	
				VAR COEFF	0.013537	0.033153
				EFFICIENCY	99.82	99.93
11	5	2	1	0.415959	2	0.137475
			3	0.197890	4	0.165632
			5	0.386152	5	1.051128
				BIAS CORR	0.560019	
				VAR COEFF	0.013618	0.033193
				EFFICIENCY	99.22	99.31
11	5	2	1	0.488468	3	0.222992
			5	0.511532	5	1.113216
				BIAS CORR	0.564637	
				VAR COEFF	0.013984	0.033282
				EFFICIENCY	96.62	99.55
11	5	1	3	1.000000	5	1.283478

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.594895	
				VAR COEFF	0.020041	0.033828
				EFFICIENCY	67.42	97.94
11	4	4	1	0.393187	1	0.052658
			2	0.119173	2	0.086443
			3	0.096508	3	0.114318
			4	0.391133	4	1.263733
				BIAS CORR	0.518872	
				VAR COEFF	0.014275	0.041738
				EFFICIENCY	100.00	100.00
				EFF(M/N)	81.35	35.53
11	4	3	1	0.394283	2	0.122037
			2	0.160534	3	0.114308
			4	0.445184	4	1.264653
				BIAS CORR	0.519210	
				VAR COEFF	0.014317	0.041771
				EFFICIENCY	99.70	99.92
11	4	2	1	0.477975	2	0.170650
			4	0.522025	4	1.323999
				BIAS CORR	0.522780	
				VAR COEFF	0.014538	0.041830
				EFFICIENCY	98.19	99.78
11	4	1	3	1.000000	4	1.449015
				BIAS CORR	0.594895	
				VAR COEFF	0.020041	0.042196
				EFFICIENCY	71.23	98.91
11	3	3	1	0.423605	1	0.069540
			2	0.127565	2	0.112896
			3	0.448830	3	1.549115
				BIAS CORR	0.472952	
				VAR COEFF	0.015393	0.056356
				EFFICIENCY	100.00	100.00
				EFF(M/N)	75.44	26.31
11	3	2	1	0.472312	2	0.159937
			3	0.527688	3	1.550481

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.474511	
				VAR COEFF	0.015497	0.056414
				EFFICIENCY	99.33	99.90
11	3	1	3	1.000000	3	1.680969
				BIAS CORR	0.594895	
				VAR COEFF	0.020041	0.056628
				EFFICIENCY	76.81	99.52
11	2	2	1	0.473344	1	0.101514
			2	0.526656	2	1.989230
				BIAS CORR	0.416559	
				VAR COEFF	0.017241	0.086533
				EFFICIENCY	100.00	100.00
				EFF(M/N)	67.35	17.14
11	2	1	2	1.000000	2	2.060345
				BIAS CORR	0.485356	
				VAR COEFF	0.020414	0.086656
				EFFICIENCY	84.46	99.86
11	1	1	1	1.000000	1	2.941063
				BIAS CORR	0.340013	
				VAR COEFF	0.021169	0.183105
				EFFICIENCY	100.00	100.00
				EFF(M/N)	54.86	8.10
12	12	12	1	0.311474	1	0.016932
			2	0.093284	2	0.027701
			3	0.075629	3	0.037054
			4	0.066753	4	0.045940
			5	0.061946	5	0.054705
			6	0.058401	6	0.063803
			7	0.056801	7	0.073312
			8	0.055156	8	0.083879
			9	0.054654	9	0.095846
			10	0.054317	10	0.110515
			11	0.054680	11	0.130548
			12	0.056906	12	0.179996
				BIAS CORR	0.718432	
				VAR COEFF	0.010597	0.013574

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		100.00
12	12	11	1	0.311676	2	0.039186
			2	0.093870	3	0.037028
			3	0.074421	4	0.045963
			4	0.068595	5	0.054654
			5	0.060475	6	0.063900
			6	0.088232	7	0.073229
			8	0.082447	8	0.083973
			9	0.053781	9	0.095826
			10	0.055063	10	0.110555
			11	0.054441	11	0.130575
			12	0.056998	12	0.180038
				BIAS CORR		
				0.718154		
				VAR COEFF		0.013577
				EFFICIENCY		99.98
12	12	11	1	0.312223	2	0.054752
			2	0.092596	4	0.066553
			3	0.077960	5	0.054313
			4	0.063575	6	0.064635
			5	0.093130	7	0.072169
			7	0.114513	8	0.085115
			9	0.080791	9	0.095105
			10	0.053001	10	0.110922
			11	0.055281	11	0.130550
			12	0.056930	12	0.180120
				BIAS CORR		
				0.717840		
				VAR COEFF		0.013582
				EFFICIENCY		99.94
12	12	9	1	0.312243	2	0.054772
			2	0.094596	4	0.092559
			3	0.073072	6	0.092652
			4	0.098781	7	0.070806
			6	0.118985	8	0.087225
			8	0.112881	9	0.093245
			10	0.078164	10	0.112049
			11	0.054122	11	0.130319
			12	0.057156	12	0.180273

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.717431	
				VAR COEFF	0.010630	0.013591
				EFFICIENCY	99.69	99.87
12	12	8	1	0.313157	2	0.054706
			2	0.092581	4	0.093095
			3	0.107211	6	0.128929
			5	0.126991	8	0.121214
			7	0.114959	9	0.092298
			9	0.112976	10	0.112994
			11	0.075110	11	0.130122
			12	0.057016	12	0.180527
				BIAS CORR	0.716646	
				VAR COEFF	0.010648	0.013607
				EFFICIENCY	99.52	99.75
12	12	7	1	0.313814	3	0.089012
			2	0.125911	5	0.111172
			4	0.134709	7	0.149386
			6	0.119689	9	0.136129
			8	0.113648	10	0.108511
			10	0.115169	11	0.131878
			12	0.072061	12	0.180615
				BIAS CORR	0.714511	
				VAR COEFF	0.010686	0.013630
				EFFICIENCY	99.17	99.59
12	12	6	1	0.316025	3	0.111158
			2	0.126713	6	0.156825
			4	0.168965	8	0.172575
			7	0.177732	10	0.152764
			10	0.138018	11	0.130819
			12	0.072547	12	0.181454
				BIAS CORR	0.712587	
				VAR COEFF	0.010751	0.013679
				EFFICIENCY	98.57	99.23
12	12	5	1	0.352963	4	0.157246
			3	0.193351	7	0.180892
			6	0.219934	9	0.201966
			10	0.160636	11	0.174264

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
			12	0.073116	12	0.182358
			BIAS CORR	0.712443		
			VAR COEFF	0.010854		0.013766
			EFFICIENCY	97.63		98.60
12	12	4	1	0.358446	5	0.254099
			3	0.225203	9	0.269978
			7	0.253701	11	0.175719
			11	0.162643	12	0.184349
			BIAS CORR	0.692503		
			VAR COEFF	0.011037		0.013928
			EFFICIENCY	96.02		97.46
12	12	2	1	0.423174	6	0.328712
			5	0.332081	10	0.319222
			10	0.244745	12	0.225565
			BIAS CORR	0.677921		
			VAR COEFF	0.011424		0.014261
			EFFICIENCY	92.76		95.18
12	12	2	1	0.507796	8	0.545313
			7	0.492204	12	0.227295
			BIAS CORR	0.613241		
			VAR COEFF	0.012520		0.015388
			EFFICIENCY	84.64		88.21
12	12	1	4	1.000000	10	0.839990
			BIAS CORR	0.662398		
			VAR COEFF	0.018476		0.019538
			EFFICIENCY	57.36		69.47
12	11	11	1	0.314847	1	0.018480
			2	0.094263	2	0.030125
			3	0.076539	3	0.040749
			4	0.067207	4	0.049217
			5	0.063039	5	0.061139
			6	0.058456	6	0.067656
			7	0.057847	7	0.081478
			8	0.055363	8	0.090203
			9	0.055243	9	0.104586
			10	0.054565	10	0.119442



TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
			11	0.102632	11	0.304193
			BIAS CORR	0.699477		
			VAR COEFF	0.010712		0.014813
			EFFICIENCY	100.00		100.00
			EFF(M/N)	98.93		91.64
12	11	10	1	0.31121	2	0.042660
			2	0.093461	3	0.040721
			3	0.077426	4	0.049242
			4	0.066277	5	0.061095
			5	0.092582	6	0.067762
			7	0.087075	7	0.081389
			8	0.053959	8	0.090308
			9	0.056906	9	0.104566
			10	0.053950	10	0.119488
			11	0.103043	11	0.304266
			BIAS CORR	0.699346		
			VAR COEFF	0.010722		0.014816
			EFFICIENCY	99.91		99.97
12	11	9	1	0.315598	2	0.059781
			2	0.093574	4	0.071884
			3	0.078877	5	0.060713
			4	0.064019	6	0.068572
			5	0.094257	7	0.080227
			7	0.115496	8	0.091567
			9	0.081475	9	0.103778
			10	0.053247	10	0.119847
			11	0.103259	11	0.304325
			BIAS CORR	0.698878		
			VAR COEFF	0.010732		0.014823
			EFFICIENCY	99.81		99.43
12	11	8	1	0.315642	2	0.059809
			2	0.093601	4	0.100968
			3	0.073447	6	0.099894
			4	0.044748	7	0.078711
			6	0.120134	8	0.093431
			8	0.113423	9	0.101706
			10	0.078676	10	0.121165
			11	0.102279	11	0.304232

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.698379	
				VAR COEFF	0.010746	0.014934
				EFFICIENCY	99.68	99.85
12	11	7	1	0.316542	3	0.096820
			2	0.093560	5	0.120514
			3	0.108333	7	0.117073
			5	0.128355	8	0.086154
			7	0.116147	9	0.108617
			9	0.113812	10	0.117637
			11	0.123249	11	0.305550
				BIAS CORR	0.697646	
				VAR COEFF	0.010763	0.014852
				EFFICIENCY	99.52	99.74
12	11	6	1	0.317697	3	0.096973
			2	0.127895	5	0.121327
			4	0.140420	7	0.162873
			6	0.151911	9	0.147933
			9	0.137950	10	0.117338
			11	0.124227	11	0.306260
				BIAS CORR	0.696887	
				VAR COEFF	0.010813	0.014878
				EFFICIENCY	99.06	99.56
12	11	5	1	0.353789	3	0.121481
			3	0.195097	6	0.170699
			6	0.186584	8	0.187873
			9	0.139785	10	0.169677
			11	0.124746	11	0.306020
				BIAS CORR	0.698979	
				VAR COEFF	0.010889	0.014934
				EFFICIENCY	98.41	99.15
12	11	4	1	0.358446	4	0.171374
			3	0.225203	7	0.197562
			7	0.253708	9	0.219313
			11	0.162643	11	0.353478
				BIAS CORR	0.692903	
				VAR COEFF	0.011037	0.015040
				EFFICIENCY	97.06	98.49

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE	
12	11	3	1	0.423174	5	0.277614	
			5	0.332081	9	0.293806	
			10	0.244745	11	0.357753	
				BIAS CORR	0.677921		
				VAR COEFF	0.011424		0.015231
				EFFICIENCY	93.76		97.25
12	11	2	1	0.507796	7	0.451974	
			7	0.492204	11	0.444781	
				BIAS CORR	0.613241		
				VAR COEFF	0.012520		0.015848
				EFFICIENCY	85.56		93.47
12	11	1	4	1.000000	10	0.839990	
				BIAS CORR	0.662398		
				VAR COEFF	0.018476		0.019538
				EFFICIENCY	57.98		75.81
12	10	10	1	0.319434	1	0.020249	
			2	0.095822	2	0.033737	
			3	0.076921	3	0.042486	
			4	0.069854	4	0.059536	
			5	0.061202	5	0.058697	
			6	0.062071	6	0.083367	
			7	0.056463	7	0.082536	
			8	0.057146	8	0.102447	
			9	0.055299	9	0.112736	
			10	0.145710	10	0.422105	
				BIAS CORR	0.678300		
				VAR COEFF	0.110869		0.016311
				EFFICIENCY	100.00		100.00
				EFF(M/N)	97.50		83.27
12	10	9	1	0.319633	2	0.047474	
			2	0.046403	3	0.042457	
			3	0.079721	4	0.057567	
			4	0.071682	5	0.058637	
			5	0.059824	6	0.063458	
			6	0.091721	7	0.082440	
			7	0.084274	8	0.102964	

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
			9	0.054432	9	0.112716
			10	0.146310	10	0.422236
			BIAS CORR	0.678027		
			VAR COEFF	0.010879		0.016315
			EFFICIENCY	99.91		99.97
12	10	9	1	0.319894	2	0.065326
			2	0.096694	4	0.083181
			3	0.075397	5	0.058249
			4	0.100571	6	0.084335
			6	0.121643	7	0.081228
			8	0.085885	8	0.103879
			9	0.052385	9	0.111896
			10	0.147332	10	0.422723
			BIAS CORR	0.678076		
			VAR COEFF	0.010890		0.016322
			EFFICIENCY	99.81		99.93
12	11	7	1	0.320202	2	0.065351
			2	0.097132	4	0.111076
			3	0.074362	6	0.114396
			4	0.101566	7	0.079773
			6	0.122150	8	0.106144
			8	0.115067	9	0.109906
			10	0.169520	10	0.423651
			BIAS CORR	0.677278		
			VAR COEFF	0.010902		0.016333
			EFFICIENCY	99.70		99.86
12	12	6	1	0.320817	2	0.065285
			2	0.128659	4	0.111695
			4	0.142789	6	0.155277
			6	0.122338	8	0.144458
			8	0.115651	9	0.108855
			10	0.169747	10	0.424985
			BIAS CORR	0.677978		
			VAR COEFF	0.010925		0.016353
			EFFICIENCY	99.49		99.74
12	10	5	1	0.323130	3	0.107332
			2	0.129499	5	0.132285

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
			4	0.172838	7	0.178292
			7	0.181097	9	0.162243
			10	0.193437	10	0.421967
			BIAS CORR	0.675759		
			VAR COEFF	0.010993		0.016398
			EFFICIENCY	98.87		99.47
12	10	4	1	0.360969	4	0.154934
			3	0.197548	6	0.156340
			6	0.224633	8	0.206157
			10	0.216850	10	0.473562
			BIAS CORR	0.675341		
			VAR COEFF	0.011101		0.016454
			EFFICIENCY	97.91		99.13
12	10	3	1	0.423174	4	0.231122
			5	0.332081	8	0.280872
			10	0.244745	10	0.477403
			BIAS CORR	0.677921		
			VAR COEFF	0.011424		0.016602
			EFFICIENCY	95.14		98.24
12	10	2	1	0.507796	6	0.390186
			7	0.492204	10	0.569229
			BIAS CORR	0.613241		
			VAR COEFF	0.012520		0.016909
			EFFICIENCY	86.81		96.01
12	10	1	4	1.000000	10	0.839990
			BIAS CORR	0.662398		
			VAR COEFF	0.018476		0.019538
			EFFICIENCY	58.83		83.48
12	9	9	1	0.325410	1	0.022788
			2	0.096896	2	0.035343
			3	0.080685	3	0.054699
			4	0.066077	4	0.050215
			5	0.069132	5	0.086582
			6	0.056924	6	0.072852
			7	0.061141	7	0.103357
			8	0.056197	8	0.107660

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
			9	0.187538	9	0.540779
			BIAS CORR	0.655188		
			VAR COEFF	0.011069		0.018150
			EFFICIENCY	100.00		100.00
			EFF(M/N)	95.73		74.79
12	9	9	1	0.325767	2	0.050803
			2	0.096602	3	0.054670
			3	0.081534	4	0.050246
			4	0.065198	5	0.086525
			5	0.097879	6	0.072985
			7	0.089596	7	0.103250
			8	0.054840	8	0.107794
			9	0.188584	9	0.540906
			BIAS CORR	0.655079		
			VAR COEFF	0.011079		0.018156
			EFFICIENCY	99.91		99.97
12	9	7	1	0.326155	2	0.050728
			2	0.096212	3	0.077606
			3	0.083007	5	0.113277
			4	0.062911	6	0.072087
			5	0.099577	7	0.104968
			7	0.118686	8	0.105783
			9	0.213451	9	0.542217
			BIAS CORR	0.654575		
			VAR COEFF	0.011090		0.018164
			EFFICIENCY	99.82		99.92
12	9	6	1	0.326555	2	0.050358
			2	0.096226	3	0.078117
			3	0.111791	5	0.149081
			5	0.132570	7	0.140994
			7	0.118990	8	0.104141
			9	0.213868	9	0.543772
			BIAS CORR	0.654843		
			VAR COEFF	0.011103		0.018180
			EFFICIENCY	99.70		99.84
12	9	5	1	0.326492	3	0.117665
			3	0.169888	5	0.149097

TABLE I  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
			5	0.133031	7	0.141702
			7	0.119770	8	0.103403
			9	0.214860	9	0.544701
			BIAS CORR	0.656983		
			VAR COEFF	0.011157		0.018199
			EFFICIENCY	99.21		99.73
12	9	4	1	0.365022	3	0.117890
			3	0.201436	5	0.150123
			6	0.191668	7	0.196735
			9	0.241873	9	0.592426
			BIAS CORR	0.655673		
			VAR COEFF	0.011233		0.018237
			EFFICIENCY	98.55		99.52
12	9	3	1	0.401464	4	0.207330
			4	0.299073	7	0.239504
			9	0.299463	9	0.595448
			BIAS CORR	0.654527		
			VAR COEFF	0.011479		0.018356
			EFFICIENCY	96.43		98.88
12	9	2	1	0.507796	5	0.338171
			7	0.492204	9	0.689980
			BIAS CORR	0.613241		
			VAR COEFF	0.012520		0.018625
			EFFICIENCY	88.41		97.45
12	9	1	4	1.000000	9	0.922596
			BIAS CORR	0.662398		
			VAR COEFF	0.018470		0.020337
			EFFICIENCY	59.91		89.25
12	8	6	1	0.332583	1	0.024926
			2	0.100536	2	0.044397
			3	0.077801	3	0.046656
			4	0.076019	4	0.083423
			5	0.060805	5	0.066136
			6	0.065219	6	0.104370
			7	0.058691	7	0.104295
			8	0.228348	8	0.664448

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.630054	
				VAR COEFF	0.011322	0.020461
				EFFICIENCY	100.00	100.00
				EFF(M/N)	93.60	66.34
12	8	7	1	0.332802	2	0.061311
			2	0.101139	3	0.046622
			3	0.076575	4	0.083465
			4	0.077886	5	0.066068
			5	0.055337	6	0.104523
			6	0.096014	7	0.104184
			8	0.256247	8	0.664737
				BIAS CORR	0.629716	
				VAR COEFF	0.011332	0.020468
				EFFICIENCY	99.90	99.97
12	8	6	1	0.333061	2	0.080921
			2	0.101414	4	0.109374
			3	0.076295	5	0.065690
			4	0.106505	6	0.105420
			6	0.125883	7	0.102879
			8	0.256842	8	0.665818
				BIAS CORR	0.629752	
				VAR COEFF	0.011343	0.020477
				EFFICIENCY	99.81	99.92
12	8	5	1	0.333710	2	0.080962
			2	0.133766	4	0.140832
			4	0.148808	6	0.139286
			6	0.126081	7	0.101295
			8	0.257636	8	0.667412
				BIAS CORR	0.630406	
				VAR COEFF	0.011367	0.020490
				EFFICIENCY	99.60	99.86
12	8	4	1	0.372432	2	0.080909
			3	0.174041	4	0.141659
			5	0.166077	6	0.191262
			8	0.287450	8	0.716243
				BIAS CORR	0.630808	
				VAR COEFF	0.011450	0.020522



TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	99.88	99.70
12	8	3	1	0.405195	4	0.194366
			4	0.272673	6	0.191641
			8	0.322132	8	0.718900
				BIAS CORR		
				0.633136		
				VAR COEFF		0.020597
				EFFICIENCY		99.34
12	8	2	1	0.507796	4	0.288321
			7	0.492204	8	0.815785
				BIAS CORR		
				0.613241		
				VAR COEFF		0.020821
				EFFICIENCY		98.27
12	8	1	4	1.000000	8	1.008366
				BIAS CORR		
				0.662398		
				VAR COEFF		0.022007
				EFFICIENCY		92.97
12	7	7	1	0.342205	1	0.029627
			2	0.101142	2	0.043728
			3	0.085740	3	0.072168
			4	0.068955	4	0.065796
			5	0.070633	5	0.102162
			6	0.061974	6	0.103173
			7	0.269347	7	0.797594
				BIAS CORR		
				0.602648		
				VAR COEFF		0.023449
				EFFICIENCY		100.00
				EFF(M/N)		57.89
12	7	6	1	0.342624	2	0.063832
			2	0.100843	3	0.072140
			3	0.086633	4	0.065837
			4	0.068071	5	0.102100
			5	0.101890	6	0.103354
			7	0.299940	7	0.797821
				BIAS CORR		
				0.602428		
				VAR COEFF		0.023459
				EFFICIENCY		99.96

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE			
12	7	3	1	0.343091	2	0.063755			
			2	0.100868	3	0.102193			
			3	0.117789	5	0.137110			
			5	0.137600	6	0.102277			
			7	0.300652	7	0.799174			
			BIAS CORR	0.602607					
			VAR COEFF	0.011665		0.623474			
			EFFICIENCY	99.77		99.90			
12	7	4	1	0.344692	3	0.152313			
			2	0.138134	5	0.137553			
			4	0.182288	6	0.101503			
			7	0.334886	7	0.800783			
			BIAS CORR	0.602360					
			VAR COEFF	0.011724		0.023505			
			EFFICIENCY	99.27		99.76			
			12	7	5	1	0.384487	3	0.152685
3	0.241265	5				0.188016			
7	0.374248	7				0.851510			
BIAS CORR	0.603846								
VAR COEFF	0.011843					0.023535			
EFFICIENCY	98.27					99.63			
12	7	2				1	0.507796	4	0.266628
						7	0.492204	7	0.907690
			BIAS CORR	0.613241					
			VAR COEFF	0.012520		0.023714			
			EFFICIENCY	92.96		98.88			
			12	7	1	4	1.000000	7	1.102387
						BIAS CORR	0.662398		
						VAR COEFF	0.018476		0.024560
EFFICIENCY	62.99					95.48			
12	5	6				1	0.353619	1	0.033097
						2	0.106674	2	0.057975
						3	0.083647	3	0.067519
						4	0.077159	4	0.096522
			5	0.068452	5	0.104109			

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
			6	0.310449	6	0.946357
			BIAS CORR	0.572531		
			VAR COEFF	0.012042		0.027461
			EFFICIENCY	100.00		100.00
			EFF(M/N)	88.00		49.43
12	6	5	1	0.353973	2	0.080441
			2	0.107006	3	0.067487
			3	0.083343	4	0.096178
			4	0.110185	5	0.104040
			6	0.345493	6	0.946827
			BIAS CORR	0.572419		
			VAR COEFF	0.012057		0.027473
			EFFICIENCY	99.88		99.96
12	6	4	1	0.354753	2	0.108852
			2	0.142376	4	0.134065
			4	0.156421	5	0.103577
			6	0.346451	6	0.947854
			BIAS CORR	0.572940		
			VAR COEFF	0.012085		0.027492
			EFFICIENCY	99.65		99.89
12	6	3	1	0.395862	2	0.108970
			3	0.216213	4	0.183723
			6	0.387924	6	1.001450
			BIAS CORR	0.574222		
			VAR COEFF	0.012179		0.027525
			EFFICIENCY	98.88		99.77
12	6	2	1	0.491655	3	0.220494
			6	0.508395	6	1.057713
			BIAS CORR	0.581426		
			VAR COEFF	0.012658		0.027654
			EFFICIENCY	95.14		99.30
12	6	1	4	1.000000	6	1.210489
			BIAS CORR	0.662398		
			VAR COEFF	0.018476		0.028256
			EFFICIENCY	65.18		97.18

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE			
12	5	"	1	0.369351	1	0.040764			
			2	0.109705	2	0.064151			
			3	0.089674	3	0.089775			
			4	0.077596	4	0.106066			
			5	0.393674	5	1.119873			
			BIAS CORR	0.539044					
			VAR COEFF	0.012570		0.033128			
EFFICIENCY	100.00		100.00						
			EFF (M/N)	84.30		40.97			
12	5	"	1	0.369956	2	0.091827			
			2	0.109758	3	0.089744			
			3	0.125211	4	0.108141			
			5	0.395075	5	1.120469			
			BIAS CORR	0.539077					
			VAR COEFF	0.012590		0.033147			
			EFFICIENCY	99.84		99.94			
12	5	3	1	0.411184	2	0.129641			
			3	0.191609	4	0.156025			
			5	0.347214	5	1.121259			
			BIAS CORR	0.340831					
			VAR COEFF	0.012661		0.033180			
			EFFICIENCY	99.28		99.84			
			12	5	"	1	0.449634	3	0.210489
5	0.520344	5				1.179648			
BIAS CORR	0.545474								
VAR COEFF	0.012970					0.033249			
EFFICIENCY	96.93					99.64			
12	5	1				4	1.000000	5	1.341244
						BIAS CORR	0.662398		
			VAR COEFF	0.018476		0.033687			
			EFFICIENCY	68.04		96.34			
			12	4	"	1	0.390131	1	0.049882
						2	0.116283	2	0.081912
						3	0.093343	3	0.107555
4	0.400241	4				1.334131			
BIAS CORR	0.501074								

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.96

n	m	l	i	LOCATION	i	SCALE
11	0	1		0.013791	1	0.041733
			VAR COEFF	100.00		100.00
			EFFICIENCY	79.73		79.73
			EFF(M/N)			
17	0	2	1	0.391117	2	0.119793
			2	0.199906	3	0.107933
			3	0.437943	4	1.334941
			BIAS CORR	0.901436		
23	0	3	VAR COEFF	0.013376		0.041743
			EFFICIENCY	79.73		79.73
29	0	4	1	0.471803	4	0.161179
			2	0.379667	5	1.399018
			3	0.600898		
			BIAS CORR	0.013910		0.041810
35	0	5	VAR COEFF	78.37		79.87
			EFFICIENCY			
41	0	6	1	1.010001	6	1.469567
			2	0.647398		
			3	0.010076		0.042118
			BIAS CORR	71.93		79.11
47	0	7	VAR COEFF			
			EFFICIENCY			
53	0	8	1	0.470441	8	0.089461
			2	0.174881	9	0.106717
			3	0.466704	10	1.671967
			BIAS CORR	0.906783		
59	0	9	VAR COEFF	0.013387		0.041810
			EFFICIENCY	100.00		100.00
			EFF(M/N)	79.87		79.87
65	0	10	1	0.461791	10	0.191807
			2	0.327704	11	1.621130
			3	0.460746		
			BIAS CORR	0.010001		0.041807
71	0	11	VAR COEFF	79.87		79.87
			EFFICIENCY			
77	0	12	1	1.000000	12	1.741000
			2	0.871398		
			3	0.010001		0.041807
			BIAS CORR	79.87		79.87
83	0	13	VAR COEFF			
			EFFICIENCY			

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.90

N	K	L	I	LOCATION	I	SCALE		
12	2	2	1	0.470423	1	0.096246		
			2	0.924977	2	7.069449		
			BIAS CORR			0.407293		
			VAR (DIFF)			0.015074		0.006931
			EFFICIENCY			100.00		100.00
					19.67			
12	2	1	2	1.000000	2	7.136440		
			BIAS CORR			0.467400		
			VAR (DIFF)			0.018471		0.006434
			EFFICIENCY			84.73		97.82
12	1	1	1	1.000000	1	9.049277		
			BIAS CORR			0.370303		
			VAR (DIFF)			0.014749		0.103109
			EFFICIENCY			100.00		150.00
					7.41			
13	13	13	1	0.303736	1	0.014711		
			2	0.044040	2	0.074314		
			3	0.077100	3	0.037407		
			4	0.043170	4	0.040704		
			5	0.060033	5	0.047614		
			6	0.034001	6	0.000107		
			7	0.033400	7	0.043174		
			8	0.001074	8	0.071054		
			9	0.020702	9	0.001001		
			10	0.044770	10	0.001701		
			11	0.000000	11	0.104447		
			12	0.040324	12	0.123134		
			13	0.007447	13	0.160302		
			BIAS CORR			0.710417		
			VAR (DIFF)			0.009745		0.017014
EFFICIENCY			100.00		100.00			
					100.00			
13	13	12	1	0.304141	2	0.034474		
			2	0.003407	3	0.037400		
			3	0.075714	4	0.040100		
			4	0.007272	5	0.047003		
			5	0.000024	6	0.033244		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

n	m	L	i	LOCATION	i	SCALE			
			6	0.050049	7	0.067964			
			7	0.041887	8	0.071774			
			8	0.076147	9	0.080867			
			10	0.047971	10	0.041801			
			11	0.051694	11	0.104459			
			12	0.047007	12	0.173166			
			13	0.057956	13	0.168412			
			BIAS CORR			0.714690			
			VAR CORR			0.004744		0.017916	
			EFFICIENCY			97.93		97.98	
			13	13	11	1	0.004469	7	0.047977
						2	0.007887	8	0.050637
						3	0.071747	9	0.044474
4	0.054303	10				0.026497			
5	0.040848	11				0.020447			
6	0.113897	12				0.076767			
7	0.074704	13				0.078744			
10	0.047073	10				0.048863			
11	0.046140	11				0.104337			
12	0.044117	12				0.173354			
13	0.057670	13				0.168888			
BIAS CORR						0.714617			
VAR CORR						0.004788		0.017977	
EFFICIENCY			97.86		97.95				
13	13	10	1	0.004466	7	0.047977			
			2	0.007881	8	0.050767			
			3	0.054403	9	0.027047			
			4	0.046184	10	0.027037			
			5	0.111864	11	0.080191			
			6	0.078447	12	0.077014			
			10	0.077387	10	0.048777			
			11	0.044873	11	0.107091			
			12	0.047051	12	0.174017			
			13	0.057144	13	0.168854			
			BIAS CORR			0.714484			
			VAR CORR			0.004767		0.017916	
			EFFICIENCY			97.79		97.91	
13	13	4	1	0.008078	7	0.047791			

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

L	M	L	1	LOCATION	1	SCALE
			2	0.047346	4	0.001649
			3	0.102300	6	0.110977
			5	0.170721	8	0.104054
			7	0.106107	9	0.060074
			9	0.104658	10	0.101044
			11	0.072716	11	0.044752
			12	0.040717	12	0.126842
			13	0.097797	13	0.169472
				MEAN CORR		
				0.714301		
				VAN CUPP		0.017434
				EFFICIENCY		44.44
11	12	13	1	0.104704	2	0.017854
			2	0.112714	3	0.047113
			4	0.132442	4	0.124474
			6	0.112104	5	0.122777
			8	0.104401	10	0.041141
			10	0.104807	11	0.110791
			12	0.068633	12	0.121741
			13	0.042433	13	0.164974
				MEAN CORR		
				0.713774		
				VAN CUPP		0.017434
				EFFICIENCY		44.44
11	12	13	1	0.122144	2	0.122444
			3	0.144444	3	0.111441
			5	0.121401	4	0.144444
			7	0.104471	10	0.122477
			9	0.104444	11	0.044444
			11	0.104477	12	0.122444
			13	0.044471	13	0.164471
				MEAN CORR		
				0.713774		
				VAN CUPP		0.017434
				EFFICIENCY		44.44
11	13	14	1	0.144404	4	0.122477
			2	0.144477	5	0.144477
			4	0.144114	7	0.144477
			5	0.144444	11	0.144104
			11	0.104444	12	0.144144
			13	0.064444	13	0.174477



TABLE 11  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

L	M	L	L	LOCATION	L	SCALE
				BIAS CORR VAR COEFF EFFICIENCY		
				0.711896 0.009899 98.41		0.012674 99.11
11	13	1	1	0.344734	4	0.167647
			3	0.197763	8	0.202018
			6	0.209847	10	0.193468
			13	0.188654	12	0.163998
			13	0.078497	13	0.176945
				BIAS CORR VAR COEFF EFFICIENCY		
				9.709678 0.009991 97.91		0.012674 98.94
1	13	4	1	0.314796	6	0.216775
			4	0.286987	10	0.299921
			8	0.279976	12	0.169996
			12	0.197147	13	0.172470
				BIAS CORR VAR COEFF EFFICIENCY		
				0.694007 0.016153 95.75		0.012857 97.31
11	13	1	1	0.312686	7	0.347047
			6	0.344103	11	0.304733
			11	0.244217	13	0.211847
				BIAS CORR VAR COEFF EFFICIENCY		
				0.474974 0.016574 92.87		0.013179 99.75
11	13	2	1	0.311495	9	0.361071
			8	0.388000	13	0.279543
				BIAS CORR VAR COEFF EFFICIENCY		
				0.622655 0.011817 84.15		0.015747 87.74
11	13	1	8	1.000000	11	0.973525
				BIAS CORR VAR COEFF EFFICIENCY		
				0.639765 0.017178 86.48		0.018086 89.19
11	12	12	1	0.308676	1	0.014117
			2	0.090929	2	0.076561

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
			3	0.072648	3	0.034336
			4	0.064326	4	0.045264
			5	0.058239	5	0.048270
			6	0.056316	6	0.063974
			7	0.052644	7	0.063929
			8	0.052908	8	0.080887
			9	0.050691	9	0.089194
			10	0.050634	10	0.100196
			11	0.050139	11	0.112348
			12	0.054648	12	0.204973
				BIAS CORR		
				VAN COEFF		0.013994
				EFFICIENCY		100.00
						42.74
12	12	11	1	0.306648	7	0.027648
			2	0.071884	8	0.034788
			3	0.064884	9	0.049332
			4	0.068980	10	0.048144
			5	0.064367	11	0.064178
			6	0.064882	12	0.063107
			7	0.071844		0.081177
			8	0.067004	8	0.089084
			9	0.066404	9	0.102744
			10	0.047864	10	0.112336
			11	0.049821	11	0.204656
			12	0.047666	12	
				BIAS CORR		
				VAN COEFF		0.013962
				EFFICIENCY		44.48
13	13	12	1	0.306787	7	0.051831
			2	0.047633	8	0.064737
			3	0.066401	9	0.047916
			4	0.074884	10	0.063474
			5	0.066884	11	0.061036
			6	0.084006	12	0.084377
			7	0.104404		0.082741
			8	0.076031	8	0.102078
			9	0.047044	9	0.111674
			10	0.049878	10	0.204973
			11	0.047074	11	
			12	0.047074	12	
				BIAS CORR		
				VAN COEFF		0.013974
				EFFICIENCY		44.48

TABLE 11  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF EFFICIENCY		
				0.004850 99.86		0.013567 99.95
12	12	9	1	0.206894	2	0.091774
			2	0.092948	4	0.087339
			3	0.066419	6	0.041393
			4	0.047067	7	0.057988
			6	0.112918	8	0.089847
			8	0.104467	9	0.079468
			10	0.077934	10	0.106400
			11	0.044952	11	0.104411
			12	0.046307	12	0.289969
				BIAS CORR VAR COEFF EFFICIENCY		
				0.647209 0.004882 99.80		0.013577 99.91
12	12	9	1	0.308014	2	0.091774
			2	0.088770	4	0.088731
			3	0.103418	6	0.120144
			4	0.121844	8	0.118747
			7	0.106424	9	0.071177
			9	0.109993	10	0.110472
			11	0.072437	11	0.107296
			12	0.048220	12	0.286470
				BIAS CORR VAR COEFF EFFICIENCY		
				0.646887 0.004822 99.70		0.013581 99.84
12	12	7	1	0.307494	2	0.090479
			2	0.120842	4	0.084445
			4	0.134199	6	0.121793
			6	0.113274	8	0.161321
			8	0.109879	10	0.143978
			10	0.109141	11	0.106609
			12	0.113020	12	0.281046
				BIAS CORR VAR COEFF EFFICIENCY		
				0.646669 0.004884 99.92		0.013596 99.72
11	12	6	1	0.310094	4	0.127870
			2	0.121680	4	0.121112

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE			
			4	0.162123	8	0.157818			
			7	0.163769	10	0.144193			
			10	0.128241	11	0.106399			
			12	0.114087	12	0.287703			
			BIAS CORR	0.695174					
			VAN COEFF	0.009943		0.013675			
			EFFICIENCY	94.93		99.52			
11	12	3	1	0.344328	4	0.123110			
			3	0.186800	6	0.123366			
			6	0.173778	8	0.194051			
			9	0.162884	10	0.204919			
			12	0.137210	12	0.324956			
			BIAS CORR	0.644978					
			VAN COEFF	0.010011		0.013679			
EFFICIENCY	98.24		99.07						
11	12	4	1	0.374240	4	0.181670			
			4	0.244987	8	0.214114			
			8	0.224976	10	0.204060			
			12	0.144147	12	0.330632			
			BIAS CORR	0.644007					
			VAN COEFF	0.010183		0.013771			
			EFFICIENCY	98.99		99.49			
11	12	5	1	0.410580	4	0.300444			
			5	0.244103	10	0.280360			
			11	0.249217	12	0.334534			
			BIAS CORR	0.674996					
			VAN COEFF	0.010924		0.013460			
			EFFICIENCY	93.44		97.13			
			11	12	7	1	0.911445	8	0.463343
8	0.488009	12				0.418911			
BIAS CORR	0.677644								
VAN COEFF	0.011877					0.014981			
EFFICIENCY	84.47					92.79			
11	12	1				4	1.000000	11	0.623520
						BIAS CORR	0.638264		
			VAN COEFF	0.017128		0.018084			

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L		LOCATION		SCALE
			EFFICIENCY	57.43		74.97
11	11	11	1	0.310712	1	0.017785
			2	0.091297	2	0.027548
			3	0.075177	3	0.042621
			4	0.061395	4	0.037217
			5	0.065144	5	0.072624
			6	0.049539	6	0.049525
			7	0.060058	7	0.041577
			8	0.048750	8	0.072759
			9	0.054120	9	0.102111
			10	0.049437	10	0.103333
			11	0.134423	11	0.345194
			BIAS CORR	0.678347		
			VAN CUPP	0.004464		0.014803
			EFFICIENCY	100.00		100.00
			EFF(M/N)	97.77		84.54
11	11	11	1	0.311041	2	0.034671
			2	0.090987	3	0.042971
			3	0.076449	4	0.031707
			4	0.054070	5	0.072491
			5	0.040744	6	0.049743
			7	0.046171	7	0.041378
			8	0.044777	8	0.072522
			9	0.054581	9	0.101450
			10	0.044841	10	0.103459
			11	0.136447	11	0.345704
			BIAS CORR	0.678374		
			VAN CUPP	0.004470		0.014806
			EFFICIENCY	97.74		99.48
11	11	11	1	0.311361	2	0.034457
			2	0.084698	3	0.047940
			3	0.074880	4	0.043717
			4	0.054064	5	0.041605
			5	0.044340	6	0.044773
			7	0.108838	7	0.067894
			9	0.081144	9	0.106627
			10	0.047471	10	0.100341
			11	0.137804	11	0.346406

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.678183	
				VAR COEFF	0.009976	0.014810
				EFFICIENCY	99.88	99.95
12	11	"	1	0.311662	2	0.038926
			2	0.089206	3	0.060110
			3	0.081896	5	0.114660
			4	0.049701	7	0.117573
			5	0.097705	8	0.064621
			7	0.108767	9	0.111185
			9	0.105172	10	0.096294
			11	0.155890	11	0.398227
				BIAS CORR	0.677999	
				VAR COEFF	0.009983	0.014815
				EFFICIENCY	99.81	99.92
12	11	7	1	0.311913	3	0.090749
			2	0.089161	5	0.114604
			3	0.104490	7	0.118745
			5	0.123765	8	0.062759
			7	0.108843	9	0.112708
			9	0.106178	10	0.099962
			11	0.199840	11	0.398743
				BIAS CORR	0.677889	
				VAR COEFF	0.009991	0.014826
				EFFICIENCY	99.73	99.89
12	11	6	1	0.344886	3	0.090818
			3	0.198477	5	0.115438
			5	0.123464	7	0.190737
			7	0.104671	9	0.142452
			9	0.106866	10	0.093807
			11	0.196161	11	0.400614
				BIAS CORR	0.680008	
				VAR COEFF	0.010024	0.014837
				EFFICIENCY	99.31	99.77
12	11	5	1	0.347084	3	0.090160
			3	0.198861	5	0.118344
			5	0.174824	7	0.191203
			9	0.197884	9	0.145407

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

K	M	L	I	LOCATION	I	SCALE
			11	0.156637	11	0.440190
			BIAS CORR	0.670419		
			VAR COEFF	0.010097		0.014873
			EFFICIENCY	98.68		99.53
11	11	4	1	0.350227	5	0.182451
			3	0.214671	7	0.191109
			7	0.236177	9	2.196792
			11	0.198926	11	0.442316
			BIAS CORR	0.676143		
			VAR COEFF	0.010193		0.014946
			EFFICIENCY	97.76		99.04
11	11	3	1	0.410680	5	0.299372
			3	0.344103	9	0.267462
			11	0.249217	11	0.449193
			BIAS CORR	0.674994		
			VAR COEFF	0.010974		0.015067
			EFFICIENCY	94.68		98.25
12	11	2	1	0.911995	7	0.406910
			7	0.488009	11	0.523594
			BIAS CORR	0.677444		
			VAR COEFF	0.011577		0.015471
			EFFICIENCY	86.07		98.68
12	11	1	4	1.000000	11	0.678575
			BIAS CORR	0.638264		
			VAR COEFF	0.017170		0.018086
			EFFICIENCY	96.18		91.87
12	10	10	1	0.319918	1	0.010913
			2	0.094164	2	0.034873
			3	0.071110	3	0.030167
			4	0.074189	4	0.074416
			5	0.048140	5	0.022662
			6	0.049999	6	0.111740
			7	0.047657	7	0.092028
			8	0.048897	8	0.104467
			9	0.048859	9	2.092444
			10	0.174179	10	0.327077

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

K	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.657464	
				VAR COEFF	0.010125	0.016298
				EFFICIENCY	100.00	100.00
				EFF(M/N)	96.22	76.78
11	12	4	1	0.315520	1	0.018868
			2	0.095125	2	0.035103
			3	0.068777	3	0.029675
			4	0.077710	4	0.089478
			5	0.044491	6	0.123407
			6	0.093962	7	0.050417
			8	0.082007	8	0.112603
			9	0.045761	9	0.089882
			10	0.176154	10	0.508679
				BIAS CORR	0.657430	
				VAR COEFF	0.010130	0.016330
				EFFICIENCY	99.99	99.99
13	10	8	1	0.319604	1	0.018874
			2	0.095970	2	0.047487
			3	0.067985	4	0.105973
			4	0.044573	6	0.124409
			5	0.116561	7	0.048245
			8	0.085644	8	0.115219
			9	0.039877	9	0.087632
			10	0.179232	10	0.509754
				BIAS CORR	0.657644	
				VAR COEFF	0.010132	0.016333
				EFFICIENCY	99.90	99.97
11	10	7	1	0.319660	2	0.060307
			2	0.046304	4	0.102959
			3	0.065574	6	0.124565
			4	0.101670	7	0.047496
			6	0.117126	8	0.115427
			8	0.106897	9	0.087483
			10	0.147107	10	0.509930
				BIAS CORR	0.657291	
				VAR COEFF	0.010141	0.016306
				EFFICIENCY	99.84	99.96



TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	J	LOCATION	J	SCALE			
13	10	6	1	0.316116	2	0.060127			
			2	0.123868	4	0.106691			
			4	0.138069	6	0.148519			
			6	0.117000	8	0.139718			
			8	0.107661	9	0.084852			
			10	0.197285	10	0.511804			
			BIAS CORR	0.658006					
			VAR COEFF	0.010157		0.016312			
	EFFICIENCY	99.69		99.91					
13	10	7	1	0.318696	2	0.059410			
			2	0.124767	4	0.108153			
			4	0.167500	6	0.149833			
			7	0.167044	8	0.184512			
			10	0.221993	10	0.550427			
			BIAS CORR	0.656080					
			VAR COEFF	0.010221		0.016336			
				EFFICIENCY	99.06		99.77		
13	10	4	1	0.354838	4	0.147173			
			3	0.187752	6	0.149798			
			6	0.212497	8	0.185147			
			10	0.244914	10	0.551697			
			BIAS CORR	0.656991					
			VAR COEFF	0.010297		0.016373			
				EFFICIENCY	98.33		99.54		
			13	10	5	1	0.389189	4	0.218383
4	0.311668	8				0.259481			
10	0.299144	10				0.554502			
BIAS CORR	0.655090								
VAR COEFF	0.010559					0.016490			
	EFFICIENCY	95.89					98.83		
13	10	5				1	0.511995	6	0.360471
						8	0.488005	10	0.643116
			BIAS CORR	0.622644					
			VAR COEFF	0.011577		0.016748			
				EFFICIENCY	87.46		97.32		
			13	10	1	4	1.000000	10	0.899984

**TABLE II**  
**COEFFICIENTS FOR ESTIMATION OF**  
**LOCATION AND SCALE PARAMETERS OF A**  
**WEIBULL POPULATION FROM L-ORDER STATISTICS**  
**(SAMPLE SIZES 11 TO 13)**

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE			
				BIAS CORR	0.638264				
				VAR COEFF	0.017128	0.018559			
				EFFICIENCY	59.12	87.82			
11	9	9	1	0.322138	1	0.022411			
			2	0.092871	2	0.028834			
			3	0.083250	3	0.067707			
			4	0.053230	4	0.016054			
			5	0.079229	5	0.120988			
			6	0.042968	6	0.034833			
			7	0.065067	7	0.116733			
			8	0.048529	8	0.086721			
			9	0.212719	9	0.620995			
				BIAS CORR	0.634882				
				VAR COEFF	0.010324	0.018135			
				EFFICIENCY	100.00	100.00			
				EFF(M/N)	94.36	69.00			
13	9	8	1	0.322397	1	0.022426			
			2	0.092331	2	0.028750			
			3	0.084575	3	0.075006			
			4	0.051616	5	0.129770			
			5	0.101139	6	0.034114			
			7	0.087542	7	0.118074			
			8	0.045325	8	0.084778			
			9	0.215072	9	0.622160			
							BIAS CORR	0.634960	
				VAR COEFF	0.010328	0.018136			
				EFFICIENCY	99.95	100.00			
13	9	7	1	0.322726	1	0.022519			
			2	0.091410	2	0.028302			
			3	0.087507	3	0.075450			
			4	0.046712	5	0.146470			
			5	0.104639	7	0.135830			
			7	0.110592	8	0.082386			
			9	0.236415	9	0.623463			
							BIAS CORR	0.634730	
							VAR COEFF	0.010334	0.018139
				EFFICIENCY	99.90	99.98			

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE				
13	9	6	1	0.322948	1	0.032511				
			2	0.091365	3	0.092408				
			3	0.108699	5	0.146424				
			5	0.129125	7	0.136566				
			7	0.110661	8	0.081245				
			9	0.237202	9	0.624677				
			BIAS CORR		0.635091					
			VAR COEFF		0.010341		0.018143			
			EFFICIENCY		99.84		99.96			
			13	9	5	1	0.356742	3	0.109865	
3	0.164078	5				0.146429				
5	0.129350	7				0.137038				
7	0.111515	8				0.080649				
9	0.238314	9				0.625502				
BIAS CORR		0.637133								
VAR COEFF		0.010386					0.018158			
EFFICIENCY		99.40					99.88			
13	9	4				1	0.359044	3	0.109934	
						3	0.164487	5	0.148128	
			5	0.186169	7	0.178113				
			9	0.290300	9	0.663789				
			BIAS CORR		0.635385					
			VAR COEFF		0.010452		0.018176			
			EFFICIENCY		98.78		99.78			
			13	9	3	1	0.415510	5	0.226499	
						5	0.288438	7	0.179151	
						9	0.296052	9	0.668240	
BIAS CORR		0.641621								
VAR COEFF		0.010659					0.018284			
EFFICIENCY		96.86					99.19			
13	9	2				1	0.511995	5	0.317620	
						8	0.488005	9	0.755273	
						BIAS CORR		0.622644		
						VAR COEFF		0.011577		0.018453
			EFFICIENCY		89.18		98.28			
			13	9	1	4	1.000000	9	0.977874	

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.638264		0.019767
				0.017128		91.74
				60.28		
12	P	P	1	0.329085	1	0.022869
			2	0.099858	2	0.041847
			3	0.070035	3	0.027465
			4	0.082129	4	0.106930
			5	0.049027	5	0.033242
			6	0.068098	6	0.116774
			7	0.052778	7	0.087124
			8	0.248990	8	0.738568
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.610351		0.020450
				0.010570		100.00
				100.00		100.00
				EFF(M/N)		61.19
				92.16		
12	8	7	1	0.329203	1	0.022847
			2	0.100233	2	0.059325
			3	0.069446	4	0.122392
			4	0.105760	5	0.052753
			6	0.094109	6	0.117853
			7	0.049826	7	0.085231
			8	0.251423	8	0.739902
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.610508		0.020453
				0.010577		99.99
				99.94		
12	8	6	1	0.329236	1	0.022796
			2	0.101203	2	0.059367
			3	0.067139	4	0.137923
			4	0.107807	6	0.135199
			6	0.118937	7	0.083279
			8	0.275678	8	0.741511
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.610344		0.020456
				0.010583		99.97
				99.88		
12	8	5	1	0.329716	2	0.074884
			2	0.129431	4	0.137905
			4	0.143161	6	0.135385

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
			6	0.118810	7	0.083000
			8	0.276862	8	0.741865
			BIAS CORR	0.611034		
			VAR COEFF	0.010600		0.020461
			EFFICIENCY	99.72		99.95
13	8	4	1	0.332012	2	0.074644
			2	0.129979	4	0.139166
			4	0.202048	6	0.176795
			8	0.335961	8	0.782627
			BIAS CORR	0.609925		
			VAR COEFF	0.010674		0.020479
			EFFICIENCY	99.03		99.86
13	8	3	1	0.397673	4	0.188310
			4	0.262482	6	0.176830
			8	0.339845	8	0.785160
			BIAS CORR	0.614218		
			VAR COEFF	0.010796		0.020538
			EFFICIENCY	97.91		99.57
13	8	2	1	0.511995	4	0.272695
			8	0.488005	8	0.876593
			BIAS CORR	0.622644		
			VAR COEFF	0.011577		0.020701
			EFFICIENCY	91.31		98.79
13	8	1	4	1.000000	8	1.061316
			BIAS CORR	0.638264		
			VAR COEFF	0.017128		0.021649
			EFFICIENCY	61.72		94.46
13	7	7	1	0.339469	1	0.079116
			2	0.097270	2	0.036763
			3	0.086837	3	0.080329
			4	0.061303	4	0.045911
			5	0.071826	5	0.108779
			6	0.056962	6	0.090560
			7	0.286334	7	0.866740
			BIAS CORR	0.583691		
			VAR COEFF	0.010876		0.023444

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		53.38
13	7	8	1	0.339863	1	0.029143
			2	0.096671	2	0.036654
			3	0.088321	3	0.101138
			4	0.059685	5	0.133565
			5	0.100524	6	0.088993
			7	0.314936	7	0.868265
				BIAS CORR		0.583574
				VAR COEFF		0.010884
				EFFICIENCY		99.92
13	7	5	1	0.340220	1	0.042092
			2	0.096636	3	0.123112
			3	0.115428	5	0.133913
			5	0.131821	6	0.088113
			7	0.315896	7	0.869157
				BIAS CORR		0.583819
				VAR COEFF		0.010895
				EFFICIENCY		99.83
13	7	4	1	0.376059	1	0.041971
			3	0.174051	3	0.123627
			5	0.132073	5	0.176997
			7	0.317817	7	0.913770
				BIAS CORR		0.585726
				VAR COEFF		0.010945
				EFFICIENCY		99.37
13	7	3	1	0.379145	3	0.146202
			3	0.232708	5	0.177018
			7	0.388148	7	0.914760
				BIAS CORR		0.585385
				VAR COEFF		0.011041
				EFFICIENCY		98.50
13	7	2	1	0.495017	3	0.223594
			7	0.504983	7	1.011854
				BIAS CORR		0.594833
				VAR COEFF		0.011614

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	93.65	99.03
13	7	1	4	1.000000	7	1.154511
				BIAS CORR	0.638264	
				VAR COEFF	0.017128	0.024326
				EFFICIENCY	63.50	96.37
13	6	6	1	0.350635	1	0.030934
			2	0.105069	2	0.057897
			3	0.079499	3	0.058374
			4	0.076073	4	0.096862
			5	0.064905	5	0.094953
			6	0.323819	6	1.012687
				BIAS CORR	0.554463	
				VAR COEFF	0.011263	0.027458
				EFFICIENCY	100.00	100.00
				EFF(M/N)	86.49	45.57
13	6	5	1	0.350892	2	0.078982
			2	0.105509	3	0.058337
			3	0.078956	4	0.096932
			4	0.107194	5	0.094813
			6	0.357448	6	1.013157
				BIAS CORR	0.554416	
				VAR COEFF	0.011274	0.027468
				EFFICIENCY	99.90	99.96
13	6	4	1	0.351567	2	0.103371
			2	0.138776	4	0.129609
			4	0.151153	5	0.094077
			6	0.358504	6	1.014258
				BIAS CORR	0.554946	
				VAR COEFF	0.011298	0.027481
				EFFICIENCY	99.69	99.92
13	6	3	1	0.391802	2	0.103476
			3	0.208894	4	0.174215
			6	0.399303	6	1.063398
				BIAS CORR	0.556209	
				VAR COEFF	0.011382	0.027504
				EFFICIENCY	98.95	99.83

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
13	6	2	1	0.482005	4	0.242584
			6	0.517995	6	1.067427
			BIAS CORR	0.563433		
			VAR COEFF	0.011788		0.027618
			EFFICIENCY	95.55		99.42
13	6	1	4	1.000000	6	1.262977
			BIAS CORR	0.638264		
			VAR COEFF	0.017128		0.026102
			EFFICIENCY	65.76		97.71
13	5	5	1	0.366761	1	0.039143
			2	0.106989	2	0.059875
			3	0.087534	3	0.086654
			4	0.074549	4	0.099109
			5	0.364168	5	1.185029
			BIAS CORR	0.522016		
			VAR COEFF	0.011765		0.033126
			EFFICIENCY	100.00		100.00
EFF(M/N)	82.81		37.78			
13	5	4	1	0.367309	2	0.086560
			2	0.106984	3	0.086623
			3	0.121413	4	0.099200
			5	0.404293	5	1.185491
			BIAS CORR	0.522086		
			VAR COEFF	0.011782		0.033141
EFFICIENCY	99.86		99.95			
13	5	3	1	0.407195	2	0.122807
			3	0.186398	4	0.147750
			5	0.406408	5	1.186161
			BIAS CORR	0.523784		
			VAR COEFF	0.011843		0.033170
EFFICIENCY	99.34		99.87			
13	5	2	1	0.472435	3	0.199941
			5	0.527565	5	1.241115
			BIAS CORR	0.528356		
VAR COEFF	0.012110		0.033224			



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

	M	L	I	LOCATION	I	SCALE
				97.15		99.70
				EFFICIENCY		
13	5	1	4	1.000000	5	1.395286
				BIAS CORR		
				0.638264		
				VAR COEFF		0.033584
				0.017128		
				EFFICIENCY		98.64
				68.69		
13	4	4	1	0.387556	1	0.047428
			2	0.113876	2	0.078064
			3	0.090677	3	0.101669
			4	0.407891	4	1.399738
				BIAS CORR		
				0.485244		
				VAR COEFF		0.041733
				0.012448		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		79.99
				78.26		
13	4	3	1	0.388455	2	0.110409
			2	0.152126	3	0.101639
			4	0.459419	4	1.400463
				BIAS CORR		
				0.485618		
				VAR COEFF		0.041757
				0.012478		
				EFFICIENCY		99.94
				99.75		
13	4	2	1	0.466221	2	0.152958
			4	0.533779	4	1.458297
				BIAS CORR		
				0.488967		
				VAR COEFF		0.041795
				0.012646		
				EFFICIENCY		99.85
				98.43		
13	4	1	4	1.000000	4	1.566750
				BIAS CORR		
				0.638264		
				VAR COEFF		0.042043
				0.017128		
				EFFICIENCY		99.26
				72.68		
13	3	3	1	0.418183	1	0.062840
			2	0.122011	2	0.101348
			3	0.459807	3	1.690361
				BIAS CORR		
				0.442318		
				VAR COEFF		0.056352
				0.013440		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		22.21
				72.48		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE	
13	3	2	1	0.464007	2	0.144227	
			3	0.535993	3	1.691412	
				BIAS CORR	0.443778		
				VAR COEFF	0.013521		0.056393
				EFFICIENCY	99.41		99.93
13	3	1	3	1.000000	3	1.809519	
				BIAS CORR	0.552633		
				VAR COEFF	0.017268		0.056540
				EFFICIENCY	77.83		99.67
13	2	2	1	0.467957	1	0.091650	
			2	0.532043	2	2.145290	
				BIAS CORR	0.389603		
				VAR COEFF	0.015071		0.086530
				EFFICIENCY	100.00		100.00
				EFF(M/N)	64.64		14.46
13	2	1	2	1.000000	2	2.209698	
				BIAS CORR	0.452551		
				VAR COEFF	0.017739		0.086617
				EFFICIENCY	84.96		99.90
13	1	1	1	1.000000	1	3.144304	
				BIAS CORR	0.318035		
				VAR COEFF	0.018520		0.183105
				EFFICIENCY	100.00		100.00
				EFF(M/N)	52.60		6.83

TABLE II

Coefficients for Estimation of Location and Scale Parameters of a Weibull Population from L-Order Statistics (Sample Sizes 11 to 13)

SHAPE PARAMETER = 3.00

R	M	L	i	LOCATION	j	SCALE
11	11	11	1	0.222241	1	0.015637
			2	0.087497	2	0.027885
			3	0.077729	3	0.039006
			4	0.073441	4	0.049887
			5	0.072032	5	0.061124
			6	0.071609	6	0.072979
			7	0.072667	7	0.086130
			8	0.074109	8	0.101153
			9	0.076736	9	0.119770
			10	0.080664	10	0.145421
			11	0.090779	11	0.204536
	BIAS CORR		0.826263			
	VAR COEFF		0.009208		0.010346	
	EFFICIENCY		100.00		100.00	
	EFF(M/N)		100.00		100.00	
11	11	11	1	0.222630	2	0.034012
			2	0.087713	3	0.036977
			3	0.078707	4	0.044912
			4	0.072480	5	0.061079
			5	0.108132	6	0.073034
			6	0.108196	7	0.086074
			7	0.073043	8	0.101230
			8	0.077748	9	0.119763
			9	0.080371	10	0.145467
			10	0.090464	11	0.204599
				BIAS CORR		0.826247
	VAR COEFF		0.009221		0.010344	
	EFFICIENCY		99.86		99.97	
11	11	11	1	0.222767	2	0.034018
			2	0.088490	3	0.071474
			3	0.076241	4	0.060731
			4	0.109149	5	0.073754
			5	0.145780	6	0.089194
			6	0.104410	7	0.102059
			7	0.071719	8	0.114653
			8	0.081966	9	0.145554
			9	0.090472	10	0.204698
			10	0.081966	11	0.204698
				BIAS CORR		0.826112
	VAR COEFF		0.009236		0.010355	

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	99.70	99.92
11	11	8	1	0.223484	2	0.054954
			2	0.087479	4	0.103816
			3	0.111830	6	0.105139
			5	0.147212	7	0.084049
			7	0.148433	8	0.103590
			9	0.110109	9	0.118539
			10	0.080131	10	0.146153
			11	0.091323	11	0.209842
				BIAS CORR		
				0.825898		
				VAR COEFF		0.010365
				0.009254		
				EFFICIENCY	99.51	99.82
11	11	7	1	0.223800	3	0.092974
			2	0.120944	5	0.123791
			4	0.152836	7	0.123673
			6	0.146615	8	0.098675
			8	0.154052	9	0.122006
			10	0.110892	10	0.145210
			11	0.091261	11	0.210337
				BIAS CORR		
				0.825495		
				VAR COEFF		0.010381
				0.009283		
				EFFICIENCY	99.20	99.66
11	11	6	1	0.255172	3	0.093233
			3	0.167062	5	0.124580
			5	0.148709	7	0.177532
			7	0.149899	9	0.165311
			9	0.164250	10	0.145424
			11	0.114906	11	0.210981
				BIAS CORR		
				0.824359		
				VAR COEFF		0.010413
				0.009347		
				EFFICIENCY	98.51	99.36
11	11	5	1	0.257672	4	0.171244
			3	0.200622	7	0.210894
			6	0.229196	9	0.165412
			9	0.196468	10	0.147106
			11	0.216040	11	0.212066
				BIAS CORR		
				0.823491		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF EFFICIENCY	0.009434 97.60	0.010473 98.79
11	11	4	1	0.287987	5	0.234768
			4	0.287375	8	0.251161
			8	0.286939	10	0.195675
			11	0.137699	11	0.214231
				BIAS CORR		
				VAR COEFF		0.010586
				EFFICIENCY		97.74
11	11	3	1	0.323912	6	0.312226
			5	0.396893	9	0.309975
			10	0.279195	11	0.262113
				BIAS CORR		
				VAR COEFF		0.010342
				EFFICIENCY		95.43
11	11	2	1	0.408856	8	0.530603
			7	0.591144	11	0.314686
				BIAS CORR		
				VAR COEFF		0.011617
				EFFICIENCY		89.06
11	11	1	5	1.000000	9	0.882538
				BIAS CORR		
				VAR COEFF		0.014845
				EFFICIENCY		69.70
11	13	13	1	0.226604	1	0.017187
			2	0.089759	2	0.030769
			3	0.079073	3	0.042472
			4	0.075258	4	0.055839
			5	0.072760	5	0.065563
			6	0.073626	6	0.081900
			7	0.073448	7	0.093139
			8	0.075581	8	0.111389
			9	0.077645	9	0.130335
			10	0.156245	10	0.344439
				BIAS CORR		
				VAR COEFF		0.011386

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				EFFICIENCY		90.85
				EFF(M/N)		
11	10	9	1	0.227019	2	0.043001
			2	0.089470	3	0.042442
			3	0.080081	4	0.055868
			4	0.074274	5	0.065511
			5	0.109881	6	0.081907
			7	0.109941	7	0.093130
			8	0.074541	8	0.111474
			9	0.078688	9	0.130353
			10	0.156105	10	0.344551
				BIAS CORR		
				0.802033		
				VAR COEFF		0.011392
				0.009403		99.97
				EFFICIENCY		
11	10	8	1	0.227142	2	0.060324
			2	0.090725	4	0.079901
			3	0.077572	5	0.065141
			4	0.111327	6	0.082701
			6	0.148575	7	0.092174
			8	0.111265	8	0.112369
			9	0.076114	9	0.129999
			10	0.157280	10	0.344862
				BIAS CORR		
				0.801911		
				VAR COEFF		0.011398
				0.009418		99.91
				EFFICIENCY		
11	10	7	1	0.227904	2	0.060366
			2	0.089239	4	0.110838
			3	0.114030	6	0.116367
			5	0.149937	7	0.090951
			7	0.151029	8	0.114024
			9	0.111697	9	0.129027
			10	0.156165	10	0.345543
				BIAS CORR		
				0.801583		
				VAR COEFF		0.011410
				0.009437		99.81
				EFFICIENCY		
11	10	6	1	0.228207	3	0.102343
			2	0.122878	5	0.135836

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			4	0.155789	7	0.135331
			6	0.149433	8	0.108648
			8	0.156450	9	0.132880
			10	0.187243	10	0.345048
			BIAS CORR	0.801199		
			VAR COEFF	0.009466		0.011432
			EFFICIENCY	99.19		99.62
11	10		1	0.260744	3	0.102700
			3	0.170407	5	0.136746
			5	0.189168	7	0.194691
			8	0.190632	9	0.180515
			10	0.189048	10	0.345957
			BIAS CORR	0.802274		
			VAR COEFF	0.009543		0.011470
			EFFICIENCY	98.39		99.28
11	10	4	1	0.264190	4	0.188679
			3	0.238187	7	0.231225
			7	0.279058	9	0.180803
			10	0.218564	10	0.348926
			BIAS CORR	0.800631		
			VAR COEFF	0.009683		0.011542
			EFFICIENCY	96.96		98.67
11	10	7	1	0.323912	5	0.258207
			5	0.396893	8	0.275633
			10	0.279195	10	0.404184
			BIAS CORR	0.799416		
			VAR COEFF	0.010079		0.011677
			EFFICIENCY	93.16		97.53
11	10	2	1	0.408856	6	0.425312
			7	0.591144	10	0.500388
			BIAS CORR	0.732789		
			VAR COEFF	0.011311		0.012122
			EFFICIENCY	83.01		93.94
11	10	1	5	1.000000	9	0.882538
			BIAS CORR	0.810293		
			VAR COEFF	0.015549		0.014845

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				60.39		76.71
				EFFICIENCY		
11	9	9	1	0.232516	1	0.019187
			2	0.091783	2	0.033507
			3	0.082139	3	0.049689
			4	0.074862	4	0.056521
			5	0.077693	5	0.080243
			6	0.072491	6	0.083749
			7	0.076827	7	0.107228
			8	0.076308	8	0.121008
			9	0.215380	9	0.469597
				BIAS CORR		
				VAR COEFF		0.012674
				EFFICIENCY		100.00
				EFF(M/N)		81.03
11	9	3	1	0.232920	2	0.047163
			2	0.091497	3	0.049657
			3	0.083129	4	0.056554
			4	0.073893	5	0.080190
			5	0.114230	6	0.083869
			7	0.112754	7	0.107167
			8	0.075283	8	0.121108
			9	0.216286	9	0.469740
				BIAS CORR		
				VAR COEFF		0.012679
				EFFICIENCY		99.96
11	9	7	1	0.233327	2	0.067438
			2	0.091505	4	0.084678
			3	0.116425	5	0.079773
			5	0.153515	6	0.084801
			7	0.114267	7	0.106054
			8	0.073465	8	0.122166
			9	0.217496	9	0.469684
				BIAS CORR		
				VAR COEFF		0.012688
				EFFICIENCY		99.89
11	9	6	1	0.233810	3	0.113012
			2	0.091264	5	0.110961



TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			3	0.116913	6	0.082396
			5	0.154099	7	0.109588
			7	0.154244	8	0.119303
			9	0.249670	9	0.471547
			BIAS CORR	0.775205		
			VAR COEFF	0.009681		0.012705
			EFFICIENCY	99.51		99.76
11	9		1	0.265553	3	0.113283
			3	0.173749	5	0.151882
			5	0.154710	7	0.150427
			7	0.155170	8	0.118218
			9	0.250818	9	0.472869
			BIAS CORR	0.777701		
			VAR COEFF	0.009729		0.012723
			EFFICIENCY	99.02		99.62
11	9	4	1	0.268267	3	0.113660
			3	0.208891	5	0.152919
			6	0.237680	7	0.215074
			9	0.285163	9	0.525796
			BIAS CORR	0.776322		
			VAR COEFF	0.009824		0.012768
			EFFICIENCY	98.06		99.26
11	9	3	1	0.324708	4	0.208564
			5	0.350548	7	0.257236
			9	0.324744	9	0.529441
			BIAS CORR	0.782390		
			VAR COEFF	0.010107		0.012864
			EFFICIENCY	95.31		98.53
11	9	2	1	0.408856	5	0.353050
			7	0.591144	9	0.630067
			BIAS CORR	0.732789		
			VAR COEFF	0.011311		0.013155
			EFFICIENCY	85.17		96.35
11	9	1	5	1.000000	9	0.882538
			BIAS CORR	0.810293		
			VAR COEFF	0.015549		0.014845

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	61.95	85.38
11	8	8	1	0.239895	1	0.021290
			2	0.095617	2	0.039843
			3	0.081706	3	0.048672
			4	0.082833	4	0.076957
			5	0.073403	5	0.074285
			6	0.079433	6	0.105393
			7	0.076444	7	0.114091
			8	0.270669	8	0.593504
				BIAS CORR	0.747298	
				VAR COEFF	0.009943	0.014293
				EFFICIENCY	100.00	100.00
				EFF(M/N)	92.59	72.39
11	8	7	1	0.240175	2	0.054999
			2	0.095984	3	0.048636
			3	0.081340	4	0.077000
			4	0.118008	5	0.074224
			6	0.117407	6	0.105534
			7	0.075075	7	0.114025
			8	0.272012	8	0.593774
				BIAS CORR	0.747362	
				VAR COEFF	0.009959	0.014299
				EFFICIENCY	99.86	99.96
11	8	6	1	0.240465	2	0.074856
			2	0.096614	4	0.104543
			3	0.080176	5	0.073816
			4	0.119256	6	0.106444
			5	0.156267	7	0.112944
			8	0.307222	8	0.594754
				BIAS CORR	0.746894	
				VAR COEFF	0.009975	0.014308
				EFFICIENCY	99.70	99.90
11	8	5	1	0.240993	2	0.074915
			2	0.129633	4	0.139614
			4	0.164592	6	0.144601
			6	0.156686	7	0.111594
			8	0.308096	8	0.596309

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.747737	
				VAR COEFF	0.009999	0.014322
				EFFICIENCY	99.46	99.80
11	8	4	1	0.275625	2	0.074935
			3	0.179779	4	0.140456
			5	0.198942	6	0.202491
			8	0.345654	8	0.649488
				BIAS CORR	0.748355	
				VAR COEFF	0.010087	0.014357
				EFFICIENCY	98.59	99.56
11	8	7	1	0.306360	4	0.191441
			4	0.305301	6	0.203057
			8	0.388339	8	0.652312
				BIAS CORR	0.751304	
				VAR COEFF	0.010263	0.014420
				EFFICIENCY	96.90	99.12
11	8	2	1	0.408856	5	0.320201
			7	0.591144	8	0.710375
				BIAS CORR	0.732789	
				VAR COEFF	0.011311	0.014625
				EFFICIENCY	87.93	97.73
11	8	1	5	1.000000	8	0.959262
				BIAS CORR	0.810293	
				VAR COEFF	0.015549	0.015736
				EFFICIENCY	63.96	90.93
11	7	7	1	0.249664	1	0.024968
			2	0.097611	2	0.041317
			3	0.089775	3	0.067470
			4	0.078046	4	0.068704
			5	0.083393	5	0.102285
			6	0.077628	6	0.109336
			7	0.323682	7	0.721370
				BIAS CORR	0.716344	
				VAR COEFF	0.010340	0.016390
				EFFICIENCY	100.00	100.00
				EFF(M/N)	89.05	63.12

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE			
11	7	6	1	0.250123	2	0.059093			
			2	0.097319	3	0.067438			
			3	0.090830	4	0.068751			
			4	0.077046	5	0.102228			
			5	0.122617	6	0.109533			
			7	0.362065	7	0.721617			
				BIAS CORR	0.716085				
	VAR COEFF	0.010356		0.016398					
	EFFICIENCY	99.85		99.95					
11	7	5	1	0.250565	2	0.059017			
			2	0.097344	3	0.098316			
			3	0.125548	5	0.139205			
			5	0.163571	6	0.108457			
			7	0.362972	7	0.723049			
				BIAS CORR	0.716370				
				VAR COEFF	0.010374		0.016412		
	EFFICIENCY	99.68		99.87					
11	7	4	1	0.284515	3	0.145943			
			3	0.186232	5	0.139674			
			5	0.164269	6	0.107792			
			7	0.364984	7	0.724661			
				BIAS CORR	0.718745				
				VAR COEFF	0.010429		0.016438		
				EFFICIENCY	99.16		99.71		
11	7	3	1	0.288352	3	0.146361			
			3	0.259488	5	0.193279			
			7	0.452160	7	0.778484			
				BIAS CORR	0.718364				
				VAR COEFF	0.010577		0.016468		
				EFFICIENCY	97.77		99.52		
			11	7	2	1	0.408856	4	0.266903
7	0.591144	7				0.836586			
	BIAS CORR	0.732789							
	VAR COEFF	0.011311					0.016622		
	EFFICIENCY	91.42					98.60		
11	7	1				5	1.000000	7	1.039605

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.810293	
				VAR COEFF	0.015549	0.017337
				EFFICIENCY	66.50	94.27
11	6	6	1	0.261491	1	0.028148
			2	0.104376	2	0.053321
			3	0.088864	3	0.065825
			4	0.088005	4	0.095773
			5	0.082254	5	0.106845
			6	0.375010	6	0.858555
				BIAS CORR	0.682435	
				VAR COEFF	0.010849	0.019211
				EFFICIENCY	100.00	100.00
				EFF(M/N)	84.38	53.85
11	6	5	1	0.261853	2	0.073367
			2	0.104794	3	0.065789
			3	0.098500	4	0.095835
			4	0.127417	5	0.106783
			6	0.417436	6	0.859033
				BIAS CORR	0.682350	
				VAR COEFF	0.010867	0.019221
				EFFICIENCY	99.83	99.95
11	6	4	1	0.262503	2	0.100252
			2	0.141279	4	0.133094
			4	0.177500	5	0.106293
			6	0.418719	6	0.860164
				BIAS CORR	0.683079	
				VAR COEFF	0.010897	0.019237
				EFFICIENCY	99.56	99.86
11	6	3	1	0.300268	2	0.100387
			3	0.231679	4	0.183667
			6	0.468054	6	0.915526
				BIAS CORR	0.684835	
				VAR COEFF	0.010997	0.019268
				EFFICIENCY	98.66	99.71
11	6	2	1	0.393151	3	0.213543
			6	0.606849	6	0.973174

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	6	1	5	1.000000	6	1.128961
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	5	1	1	0.277880	1	0.034633
			2	0.108866	2	0.059318
			3	0.097201	3	0.086934
			4	0.089597	4	0.105678
			5	0.426456	5	1.012354
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				EFF(M/N)		
11	5	4	1	0.278474	2	0.083989
			2	0.108929	3	0.086934
			3	0.137610	4	0.105762
			5	0.474987	5	1.012895
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	5	3	1	0.316663	2	0.119536
			3	0.205635	4	0.155017
			5	0.477701	5	1.013828
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	5	2	1	0.383070	3	0.202311
			5	0.616930	5	1.072812
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
11	5	1	5	1.000000	5	1.234122

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.810242	
				VAR COEFF	0.015549	0.023687
				EFFICIENCY	74.08	97.49
11	4	4	1	0.299701	1	0.042380
			2	0.117997	2	0.075955
			3	0.102900	3	0.103909
			4	0.479407	4	1.194795
				BIAS CORR	0.601916	
				VAR COEFF	0.017443	0.029274
				EFFICIENCY	100.00	100.00
				EFF(M/N)	74.00	39.32
11	4	2	1	0.300597	2	0.106160
			2	0.160481	3	0.103843
			4	0.538927	4	1.145616
				BIAS CORR	0.607479	
				VAR COEFF	0.017484	0.024316
				EFFICIENCY	99.68	99.93
11	4	2	1	0.377880	2	0.148684
			4	0.622120	4	1.255702
				BIAS CORR	0.607084	
				VAR COEFF	0.012683	0.024357
				EFFICIENCY	98.11	99.74
11	4	1	4	1.000000	4	1.366278
				BIAS CORR	0.731947	
				VAR COEFF	0.015861	0.024606
				EFFICIENCY	78.45	98.95
11	3	2	1	0.337316	1	0.096161
			2	0.129666	2	0.098563
			3	0.938018	3	1.424644
				BIAS CORR	0.991984	
				VAR COEFF	0.013019	0.034688
				EFFICIENCY	100.00	100.00
				EFF(M/N)	66.69	26.07
11	3	2	1	0.378141	2	0.138219
			3	0.621804	3	1.430913

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

P	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.553589	
				VAR COEFF	0.013911	0.039727
				EFFICIENCY	99.30	99.90
11	2	1	3	1.000000	3	1.547804
				BIAS CORR	0.646077	
				VAR COEFF	0.016643	0.039872
				EFFICIENCY	83.00	99.54
11	2	2	1	0.396695	1	0.082021
			2	0.613305	2	1.777381
				BIAS CORR	0.488964	
				VAR COEFF	0.016132	0.061345
				EFFICIENCY	100.00	100.00
				EFF(M/N)	57.08	16.87
11	7	1	2	1.000000	2	1.837909
				BIAS CORR	0.544097	
				VAR COEFF	0.018189	0.061427
				EFFICIENCY	88.71	99.87
11	1	1	1	1.000000	1	2.490516
				BIAS CORR	0.401523	
				VAR COEFF	0.021296	0.132093
				EFFICIENCY	100.00	100.00
				EFF(M/N)	43.24	7.83
12	12	12	1	0.213879	1	0.013535
			2	0.083091	2	0.024049
			3	0.072716	3	0.033487
			4	0.068080	4	0.042707
			5	0.066459	5	0.051902
			6	0.065377	6	0.061752
			7	0.066213	7	0.072015
			8	0.066691	8	0.083795
			9	0.068597	9	0.097138
			10	0.070800	10	0.113861
			11	0.074464	11	0.136973
			12	0.083634	12	0.195281
				BIAS CORR	0.824626	
				VAR COEFF	0.008426	0.009467



TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		100.00
12	12	11	1	0.214258	2	0.033729
			2	0.082391	3	0.033444
			3	0.074609	4	0.042756
			4	0.065796	5	0.051800
			5	0.099599	6	0.061921
			7	0.100235	7	0.071846
			8	0.063121	8	0.083960
			9	0.072775	9	0.097070
			10	0.068120	10	0.113921
			11	0.075505	11	0.136994
			12	0.083590	12	0.195324
				BIAS CORR		
				0.824607		
				VAR COEFF		0.009469
				0.008435		
				EFFICIENCY		99.98
				99.89		
12	12	10	1	0.214086	2	0.047254
			2	0.084706	4	0.067051
			3	0.059214	5	0.051007
			4	0.102283	6	0.063414
			5	0.132350	7	0.069683
			8	0.103390	8	0.086285
			9	0.061275	9	0.095476
			10	0.075681	10	0.114703
			11	0.072973	11	0.136858
			12	0.084040	12	0.195424
				BIAS CORR		
				0.824616		
				VAR COEFF		0.009473
				0.008445		
				EFFICIENCY		99.94
				99.78		
12	12	9	1	0.214920	2	0.047255
			2	0.081457	4	0.086019
			3	0.104726	6	0.090745
			5	0.135674	7	0.066827
			7	0.133423	8	0.090536
			9	0.104302	9	0.091480
			10	0.065203	10	0.117089
			11	0.076661	11	0.136224
			12	0.083634	12	0.195634

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.824634	
				VAR COEFF	0.008455	0.009479
				EFFICIENCY	99.66	99.87
12	12	5	1	0.214626	2	0.047083
			2	0.112796	4	0.086919
			4	0.142331	6	0.124212
			6	0.133125	8	0.123694
			8	0.137732	9	0.089421
			10	0.102349	10	0.118958
			11	0.072689	11	0.135618
			12	0.084351	12	0.195951
				BIAS CORR	0.824835	
				VAR COEFF	0.008471	0.009488
				EFFICIENCY	99.46	99.77
12	12	7	1	0.243350	3	0.080045
			3	0.155692	5	0.105942
			5	0.137035	7	0.146361
			7	0.134610	9	0.140247
			9	0.143281	10	0.108999
			11	0.101971	11	0.139316
			12	0.084060	12	0.195749
				BIAS CORR	0.825699	
				VAR COEFF	0.008507	0.009503
				EFFICIENCY	99.04	99.62
12	12	6	1	0.246011	4	0.120016
			3	0.183814	6	0.125203
			6	0.174635	8	0.173128
			8	0.136682	10	0.158224
			10	0.152937	11	0.135862
			12	0.105921	12	0.196941
				BIAS CORR	0.823656	
				VAR COEFF	0.008574	0.009535
				EFFICIENCY	98.27	99.28
12	12	7	1	0.247900	4	0.144233
			3	0.216428	7	0.178897
			7	0.248149	9	0.204269
			10	0.180173	11	0.183235

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			12	0.107351	12	0.197748
			BIAS CORR	0.822529		
			VAR COEFF	0.008666		0.009601
			EFFICIENCY	97.23		98.60
12	12	4	1	0.276511	5	0.241049
			4	0.267058	9	0.273982
			8	0.255579	11	0.184116
			11	0.200852	12	0.199722
			BIAS CORR	0.804000		
			VAR COEFF	0.008861		0.009705
			EFFICIENCY	95.09		97.54
12	12	2	1	0.311299	6	0.317213
			5	0.361413	10	0.328918
			10	0.327287	12	0.244147
			BIAS CORR	0.781682		
			VAR COEFF	0.009276		0.009934
			EFFICIENCY	90.83		95.30
12	12	2	1	0.409962	8	0.542806
			9	0.590038	12	0.321968
			BIAS CORR	0.744958		
			VAR COEFF	0.010422		0.010715
			EFFICIENCY	80.85		88.34
12	12	1	6	1.000000	10	0.865936
			BIAS CORR	0.851146		
			VAR COEFF	0.014310		0.013600
			EFFICIENCY	58.88		69.61
12	11	11	1	0.217642	1	0.014790
			2	0.084461	2	0.026023
			3	0.074297	3	0.037304
			4	0.068480	4	0.044619
			5	0.068925	5	0.059898
			6	0.064835	6	0.063164
			7	0.068797	7	0.082155
			8	0.066722	8	0.088598
			9	0.070112	9	0.106792
			10	0.071388	10	0.122625

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			11	0.144342	11	0.321213
			BIAS CORR	0.802616		
			VAR COEFF	0.008574		0.010332
			EFFICIENCY	100.00		100.00
			EFF(M/N)	98.27		91.63
12	11	10	1	0.218016	2	0.036602
			2	0.083766	3	0.037264
			3	0.076174	4	0.044673
			4	0.066215	5	0.059789
			5	0.101789	6	0.063349
			7	0.102536	7	0.081973
			8	0.063182	8	0.086780
			9	0.074255	9	0.106721
			10	0.068730	10	0.122692
			11	0.145338	11	0.321291
			BIAS CORR	0.802610		
			VAR COEFF	0.008583		0.010334
			EFFICIENCY	99.89		99.98
12	11	9	1	0.218401	2	0.051675
			2	0.082902	4	0.066173
			3	0.079207	5	0.058910
			4	0.061130	6	0.065013
			5	0.105540	7	0.079569
			7	0.135262	8	0.091374
			9	0.103882	9	0.104950
			10	0.067821	10	0.123569
			11	0.145855	11	0.321234
			BIAS CORR	0.802250		
			VAR COEFF	0.008593		0.010339
			EFFICIENCY	99.78		99.93
12	11	8	1	0.218682	2	0.051681
			2	0.082831	4	0.093865
			3	0.106479	6	0.096187
			5	0.138090	7	0.076292
			7	0.135760	8	0.086348
			9	0.105824	9	0.100346
			10	0.065799	10	0.126336
			11	0.146536	11	0.320731

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.802627	
				VAR COEFF	0.008603	0.010347
				EFFICIENCY	99.66	99.85
12	11	7	1	0.219177	3	0.086973
			2	0.082625	5	0.114414
			3	0.106666	7	0.118169
			5	0.139153	8	0.080277
			7	0.136000	9	0.114790
			9	0.144549	10	0.118440
			11	0.171831	11	0.323243
				BIAS CORR	0.801215	
				VAR COEFF	0.008620	0.010357
				EFFICIENCY	99.46	99.76
12	11	6	1	0.247610	3	0.087067
			3	0.158319	5	0.115739
			5	0.139478	7	0.159756
			7	0.136977	9	0.152316
			9	0.145174	10	0.117602
			11	0.172442	11	0.324129
				BIAS CORR	0.803607	
				VAR COEFF	0.008657	0.010372
				EFFICIENCY	99.04	99.61
12	11	5	1	0.249995	4	0.131167
			3	0.190263	6	0.135953
			6	0.208948	8	0.188425
			9	0.176382	10	0.171598
			11	0.174411	11	0.321671
				BIAS CORR	0.803163	
				VAR COEFF	0.008731	0.010416
				EFFICIENCY	98.20	99.19
12	11	4	1	0.276511	4	0.156915
			4	0.267058	7	0.195769
			3	0.255579	9	0.221587
			11	0.200852	11	0.373642
				BIAS CORR	0.804000	
				VAR COEFF	0.008861	0.010489
				EFFICIENCY	96.76	98.50

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
12	11	3	1	0.311299	5	0.263447
			5	0.361413	9	0.297985
			10	0.327287	11	0.376658
			BIAS CORR	0.781682		
			VAR COEFF	0.009276		0.010612
			EFFICIENCY	92.42		97.36
12	11	2	1	0.409962	7	0.443131
			8	0.590038	11	0.468592
			BIAS CORR	0.744958		
			VAR COEFF	0.010422		0.011040
			EFFICIENCY	82.27		93.58
12	11	1	6	1.000000	10	0.865936
			BIAS CORR	0.851146		
			VAR COEFF	0.014310		0.013600
			EFFICIENCY	59.91		75.97
12	10	10	1	0.222550	1	0.016106
			2	0.086919	2	0.029915
			3	0.073920	3	0.036105
			4	0.074803	4	0.060532
			5	0.062939	5	0.047842
			6	0.074412	6	0.088954
			7	0.063790	7	0.074709
			8	0.071815	8	0.106117
			9	0.069434	9	0.112143
			10	0.199420	10	0.437901
			BIAS CORR	0.778702		
			VAR COEFF	0.008770		0.011379
			EFFICIENCY	100.00		100.00
EFF(M/N)	96.07		83.20			
12	10	9	1	0.222610	2	0.041436
			2	0.087998	3	0.036059
			3	0.071320	4	0.060594
			4	0.078804	5	0.047721
			5	0.059494	6	0.089161
			6	0.108111	7	0.074510
			7	0.103688	8	0.106320
			8			

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			9	0.067062	9	0.112067
			10	0.200913	10	0.438047
			BIAS CORR	0.778573		
			VAR COEFF	0.008779		0.011382
			EFFICIENCY	99.90		99.97
12	10	5	1	0.222727	2	0.056021
			2	0.088456	4	0.081397
			3	0.070568	5	0.046872
			4	0.107218	6	0.090769
			6	0.138360	7	0.072184
			8	0.107098	8	0.108827
			9	0.062470	9	0.110352
			10	0.203104	10	0.438851
			BIAS CORR	0.778771		
			VAR COEFF	0.008787		0.011336
			EFFICIENCY	99.80		99.93
12	10	7	1	0.222932	2	0.056021
			2	0.089245	4	0.103419
			3	0.068263	6	0.115865
			4	0.109316	7	0.069577
			6	0.139004	8	0.112764
			8	0.141137	9	0.106681
			10	0.230098	10	0.440660
			BIAS CORR	0.778071		
			VAR COEFF	0.008799		0.011391
			EFFICIENCY	99.67		99.89
12	10	9	1	0.223791	2	0.055844
			2	0.117102	4	0.104360
			4	0.148058	6	0.150711
			4	0.139157	8	0.147239
			8	0.142118	9	0.104546
			10	0.230275	10	0.442309
			BIAS CORR	0.778915		
			VAR COEFF	0.008815		0.011402
			EFFICIENCY	99.49		99.80
12	10	11	1	0.254962	4	0.142716
			3	0.190091	6	0.150802

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			6	0.181276	8	0.148464
			8	0.140735	9	0.103732
			10	0.232935	10	0.443971
			BIAS CORR	0.781214		
			VAR COEFF	0.008885		0.011434
			EFFICIENCY	98.70		99.51
12	10	4	1	0.257671	4	0.143721
			3	0.192580	6	0.152003
			6	0.258388	8	0.205207
			10	0.291361	10	0.489676
			BIAS CORR	0.777386		
			VAR COEFF	0.008986		0.011466
			EFFICIENCY	97.60		99.24
12	10	3	1	0.311299	4	0.215041
			5	0.361413	8	0.280426
			10	0.327287	10	0.493437
			BIAS CORR	0.781682		
			VAR COEFF	0.009276		0.011571
			EFFICIENCY	94.54		98.34
12	10	2	1	0.409962	6	0.376825
			8	0.590038	10	0.588202
			BIAS CORR	0.744958		
			VAR COEFF	0.010422		0.011835
			EFFICIENCY	84.15		96.15
12	10	1	6	1.000000	10	0.815936
			BIAS CORR	0.851146		
			VAR COEFF	0.014310		0.013600
			EFFICIENCY	61.29		83.67
12	9	9	1	0.229019	1	0.018437
			2	0.087592	2	0.029089
			3	0.082259	3	0.055073
			4	0.063330	4	0.035103
			5	0.083259	5	0.097356
			6	0.058904	6	0.057174
			7	0.076840	7	0.109920
			8	0.067358	8	0.102723



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			9	0.251440	9	0.552880
			BIAS CORR	0.753021		
			VAR COEFF	0.009017		0.012665
			EFFICIENCY	100.00		100.00
			EFF(M/N)	93.45		74.74
12	9	9	1	0.229339	1	0.018464
			2	0.086968	2	0.028945
			3	0.083900	3	0.070730
			4	0.061398	5	0.116716
			5	0.113008	6	0.055743
			7	0.107452	7	0.112498
			8	0.064200	8	0.099558
			9	0.253735	9	0.554716
			BIAS CORR	0.753073		
			VAR COEFF	0.009024		0.012669
			EFFICIENCY	99.92		99.97
12	9	7	1	0.229734	2	0.042150
			2	0.086096	3	0.070715
			3	0.086964	5	0.116530
			4	0.056276	6	0.055966
			5	0.116788	7	0.112287
			7	0.140707	8	0.099784
			9	0.283435	9	0.554800
			BIAS CORR	0.752681		
			VAR COEFF	0.009034		0.012673
			EFFICIENCY	99.80		99.94
12	9	5	1	0.229972	2	0.041606
			2	0.086035	3	0.071406
			3	0.112063	5	0.143882
			5	0.146720	7	0.141265
			7	0.141156	8	0.096953
			9	0.284053	9	0.556990
			BIAS CORR	0.753091		
			VAR COEFF	0.009043		0.012679
			EFFICIENCY	99.71		99.89
12	9	3	1	0.259624	3	0.105116
			3	0.165876	5	0.143849

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			5	0.147087	7	0.142432
			7	0.142193	8	0.077471
			9	0.285221	9	0.558198
			BIAS CORR	0.755405		
			VAR COEFF	0.009082		0.012691
			EFFICIENCY	99.28		99.79
12	9	4	1	0.262303	3	0.105262
			3	0.200174	5	0.145458
			6	0.217801	7	0.191940
			9	0.319723	9	0.602911
			BIAS CORR	0.754369		
			VAR COEFF	0.009166		0.012714
			EFFICIENCY	98.36		99.62
12	9	3	1	0.313665	5	0.222778
			5	0.327781	7	0.192758
			9	0.358554	9	0.607173
			BIAS CORR	0.761286		
			VAR COEFF	0.009374		0.012806
			EFFICIENCY	96.19		98.90
12	9	2	1	0.409962	5	0.321641
			3	0.590038	9	0.701138
			BIAS CORR	0.744958		
			VAR COEFF	0.010422		0.012977
			EFFICIENCY	86.52		97.60
12	9	1	5	1.000000	9	0.936396
			BIAS CORR	0.851146		
			VAR COEFF	0.014310		0.014171
			EFFICIENCY	63.01		89.37
12	8	4	1	0.236302	1	0.019553
			2	0.094087	2	0.041231
			3	0.073243	3	0.033773
			4	0.087504	4	0.092397
			5	0.059846	5	0.046852
			6	0.080650	6	0.111828
			7	0.068721	7	0.096789
			8	0.300247	8	0.668912

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

\* SHAPE PARAMETER = 3.00

N	M	L	J	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				EFF(M/N)		
				0.725348		
				0.009324		0.014285
				100.00		100.00
				90.37		66.27
12	8		1	0.236471	1	0.019527
			2	0.094545	2	0.054918
			3	0.072536	4	0.111788
			4	0.116053	5	0.046218
			6	0.112616	6	0.113198
			7	0.064965	7	0.094687
			8	0.302865	8	0.670389
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.725541		
				0.009332		0.014289
				99.91		99.97
12	8	0	1	0.236496	2	0.068868
			2	0.095603	4	0.111834
			3	0.070016	5	0.046083
			4	0.118398	6	0.113443
			6	0.145142	7	0.094460
			8	0.334345	8	0.670712
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.725315		
				0.009341		0.014273
				99.41		99.94
12	8		1	0.236875	2	0.068888
			2	0.124176	4	0.133448
			4	0.158143	6	0.138009
			6	0.145304	7	0.092055
			8	0.335502	8	0.672736
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.720137		
				0.009358		0.014298
				99.63		99.91
12	8	4	1	0.271032	2	0.068692
			3	0.201446	4	0.134713
			6	0.191046	6	0.184141
			8	0.316476	8	0.717786
				BIAS CORR		
				VAR COEFF		
				0.727991		
				0.009447		0.014317

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

L	M	I	I	LOCATION		SCALE	
				EFFICIENCY			
				98.75		99.78	
12	5	3	1	0.298061	4	0.182009	
			4	0.288504	6	0.184348	
			3	0.413435	8	0.720433	
			BIAS CORR	0.730276			
			VAR COEFF	0.009566		0.014366	
			EFFICIENCY	97.46		99.44	
12	6	4	1	0.409962	4	0.269004	
			8	0.590038	8	0.816615	
			BIAS CORR	0.744958			
			VAR COEFF	0.010422		0.014521	
			EFFICIENCY	89.46		98.38	
12	3	1	6	1.000000	8	1.008518	
			BIAS CORR	0.851146			
			VAR COEFF	0.014310		0.015350	
			EFFICIENCY	65.15		93.06	
12	7	7	1	0.246762	1	0.024213	
			2	0.092929	2	0.034939	
			3	0.090405	3	0.073452	
			4	0.068084	4	0.049472	
			5	0.083840	5	0.106576	
			6	0.070407	6	0.094972	
			7	0.347573	7	0.789969	
			BIAS CORR	0.695336			
			VAR COEFF	0.009708		0.016395	
			EFFICIENCY	100.00		100.00	
			EFF(M/N)	86.79		57.78	
12	7	6	1	0.247183	1	0.035809	
			2	0.092257	3	0.093144	
			3	0.092205	4	0.049291	
			4	0.066111	5	0.107065	
			5	0.119185	6	0.094079	
			7	0.383060	7	0.790895	
			BIAS CORR	0.695220			
			VAR COEFF	0.009719		0.016391	
			EFFICIENCY	99.89		99.95	

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 NORMAL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE			
12	7	5	1	0.247507	1	0.035798			
			2	0.092201	3	0.117013			
			3	0.121714	5	0.134062			
			5	0.154367	6	0.092360			
			7	0.384210	7	0.792594			
			BIAS CORR	0.695554					
			VAR COEFF	0.009730		0.016398			
	EFFICIENCY	99.77		99.92					
12	7	4	1	0.279371	1	0.039691			
			3	0.179443	3	0.117556			
			5	0.154794	5	0.179038			
			7	0.386393	7	0.839511			
			BIAS CORR	0.697781					
			VAR COEFF	0.009776		0.016416			
			EFFICIENCY	99.30		99.81			
12	7	3	1	0.282448	3	0.139249			
			3	0.246692	5	0.179090			
			7	0.470859	7	0.840526			
			BIAS CORR	0.697887					
			VAR COEFF	0.009891		0.016436			
			EFFICIENCY	98.15		99.69			
			12	7	2	1	0.393237	4	0.245073
7	0.606763	7				0.898181			
BIAS CORR	0.711041								
VAR COEFF	0.010494					0.016579			
EFFICIENCY	92.51					98.83			
12	7	1				5	1.000000	7	1.066491
						BIAS CORR	0.851146		
			VAR COEFF	0.014310		0.017149			
			EFFICIENCY	67.94		95.55			
12	6	6	1	0.250280	1	0.026079			
			2	0.102279	2	0.052735			
			3	0.093088	3	0.055782			
			4	0.086210	4	0.095259			
			5	0.076578	5	0.095791			

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			6	0.393565	6	0.922001
			BIAS CORR	0.662485		
			VAR COEFF	0.010197		0.019208
			EFFICIENCY	100.00		100.00
			EFF(M/N)	82.63		49.29
12	6		1	0.258519	2	0.071409
			2	0.102830	3	0.055939
			3	0.082392	4	0.095339
			4	0.122612	5	0.095648
			6	0.433648	6	0.922477
			BIAS CORR	0.662483		
			VAR COEFF	0.010211		0.019215
			EFFICIENCY	99.87		99.96
12	6	4	1	0.259055	2	0.094081
			2	0.136504	4	0.127339
			4	0.169427	5	0.094827
			6	0.435014	6	0.923697
			BIAS CORR	0.663194		
			VAR COEFF	0.010235		0.019226
			EFFICIENCY	99.64		99.90
12	6		1	0.295775	2	0.094195
			3	0.221043	4	0.171837
			6	0.483182	6	0.973669
			BIAS CORR	0.664919		
			VAR COEFF	0.010323		0.019247
			EFFICIENCY	98.78		99.79
12	6	2	1	0.381699	4	0.236969
			6	0.618301	6	0.977950
			BIAS CORR	0.675144		
			VAR COEFF	0.010747		0.019339
			EFFICIENCY	94.88		99.32
12	6	1	6	1.000000	6	1.174886
			BIAS CORR	0.851146		
			VAR COEFF	0.014310		0.019753
			EFFICIENCY	71.26		97.24

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE	
12	5	5	1	0.275075	1	0.032964	
			2	0.105251	2	0.054574	
			3	0.094161	3	0.083214	
			4	0.084921	4	0.097225	
			5	0.440592	5	1.072194	
			BIAS CORR	0.625974			
			VAR COEFF	0.010838		0.023203	
			EFFICIENCY	100.00		100.00	
	EFF(M/N)	77.74		40.80			
12	5	4	1	0.275600	2	0.078165	
			2	0.105230	3	0.083178	
			3	0.132107	4	0.097327	
			4	0.487063	5	1.072652	
				BIAS CORR	0.626138		
			VAR COEFF	0.010857		0.023216	
			EFFICIENCY	99.82		99.95	
12	5	3	1	0.312177	2	0.111913	
			3	0.198113	4	0.144943	
			5	0.489710	5	1.073352	
				BIAS CORR	0.628230		
				VAR COEFF	0.010916		0.023240
			EFFICIENCY	99.28		99.84	
12	5	2	1	0.374602	3	0.189916	
			5	0.625398	5	1.128109	
				BIAS CORR	0.634617		
				VAR COEFF	0.011197		0.023284
				EFFICIENCY	96.79		99.65
12	5	1	5	1.000000	5	1.280227	
				BIAS CORR	0.781111		
				VAR COEFF	0.014390		0.023585
				EFFICIENCY	75.32		98.38
12	4	4	1	0.296808	1	0.039862	
			2	0.114777	2	0.071661	
			3	0.098970	3	0.096975	
			4	0.489445	4	1.252488	
				BIAS CORR	0.584479		

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF	0.011718	0.029292
				EFFICIENCY	100.00	100.00
				EFF(M/N)	71.90	32.32
12	4	1	1	0.297598	2	0.100199
			2	0.155297	3	0.096939
			4	0.547104	4	1.253208
				BIAS CORR	0.585039	
				VAR COEFF	0.011753	0.029310
				EFFICIENCY	99.71	99.94
12	4	2	1	0.371617	2	0.139551
			4	0.628383	4	1.309587
				BIAS CORR	0.589439	
				VAR COEFF	0.011926	0.029343
				EFFICIENCY	98.26	99.83
12	4	1	4	1.000000	4	1.413711
				BIAS CORR	0.707358	
				VAR COEFF	0.014783	0.029545
				EFFICIENCY	79.27	99.14
12	3	3	1	0.329445	1	0.052963
			2	0.126167	2	0.092849
			3	0.544388	3	1.486995
				BIAS CORR	0.535684	
				VAR COEFF	0.013020	0.039687
				EFFICIENCY	100.00	100.00
				EFF(M/N)	64.71	25.85
12	3	2	1	0.373698	2	0.130790
			3	0.626302	3	1.489007
				BIAS CORR	0.537605	
				VAR COEFF	0.013105	0.039719
				EFFICIENCY	99.35	99.92
12	3	1	3	1.000000	3	1.598339
				BIAS CORR	0.625650	
				VAR COEFF	0.015594	0.039838
				EFFICIENCY	83.49	99.62



TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
12	2	2	1	0.383705	1	0.077301
			2	0.616295	2	1.837580
			BIAS CORR	0.474934		
			VAR COEFF	0.015215		0.061343
			EFFICIENCY	100.00		100.00
		EFF(M/N)	55.38			15.43
12	2	1	2	1.000000	2	1.894708
			BIAS CORR	0.527786		
			VAR COEFF	0.017107		0.061412
			EFFICIENCY	86.94		99.89
12	1	1	1	1.000000	1	2.563809
			BIAS CORR	0.390045		
			VAR COEFF	0.020096		0.132093
			EFFICIENCY	100.00		100.00
			EFF(M/N)	41.93		7.17
13	13	13	1	0.206577	1	0.011856
			2	0.078884	2	0.020970
			3	0.068670	3	0.029201
			4	0.063324	4	0.036872
			5	0.062275	5	0.045040
			6	0.059820	6	0.052741
			7	0.061493	7	0.061778
			8	0.060257	8	0.070596
			9	0.062801	9	0.081454
			10	0.063192	10	0.093252
			11	0.066056	11	0.108545
			12	0.069087	12	0.129506
			13	0.077563	13	0.182967
				BIAS CORR	0.823056	
	VAR COEFF	0.007765		0.008725		
	EFFICIENCY	100.00		100.00		
	EFF(M/N)	100.00		100.00		
13	12	12	1	0.207071	2	0.029509
			2	0.076917	3	0.029073
			3	0.074296	4	0.037097
			4	0.054208	5	0.044694
			5	0.096907	6	0.053186

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			7	0.096638	7	0.061287
			8	0.047117	8	0.071104
			9	0.079541	9	0.081051
			10	0.048486	10	0.093539
			11	0.074220	11	0.108436
			12	0.066676	12	0.129565
			13	0.077921	13	0.182994
			BIAS CORR	0.823085		
			VAR COEFF	0.007771		0.008726
			EFFICIENCY	99.92		99.98
12	13	11	1	0.207442	2	0.041030
			2	0.075112	4	0.055775
			3	0.080199	5	0.040628
			4	0.043554	6	0.058192
			5	0.104587	7	0.055083
			7	0.119651	8	0.073355
			9	0.104823	9	0.074293
			10	0.043482	10	0.098208
			11	0.077498	11	0.106318
			12	0.065521	12	0.130191
			13	0.078131	13	0.182978
			BIAS CORR	0.822936		
			VAR COEFF	0.007775		0.008729
			EFFICIENCY	99.87		99.95
12	13	12	1	0.206214	2	0.040741
			2	0.083647	4	0.075196
			3	0.054685	6	0.082778
			4	0.103670	7	0.046975
			6	0.122549	8	0.089563
			8	0.122794	9	0.061414
			10	0.103456	10	0.109551
			11	0.052324	11	0.101125
			12	0.073532	12	0.131719
			13	0.077130	13	0.182865
			BIAS CORR	0.822911		
			VAR COEFF	0.007778		0.008732
			EFFICIENCY	99.83		99.92
12	13	9	1	0.207790	2	0.040311

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			2	0.074144	4	0.076619
			3	0.099421	6	0.105794
			5	0.129559	8	0.114774
			7	0.119893	9	0.055534
			9	0.130091	10	0.115104
			11	0.096134	11	0.096889
			12	0.064659	12	0.133259
			13	0.078310	13	0.182744
			BIAS CORR	0.822803		
			VAR COEFF	0.007783		0.008736
			EFFICIENCY	99.77		99.87
12	13	8	1	0.206633	3	0.069238
			2	0.105522	5	0.093296
			4	0.134830	7	0.121870
			6	0.124052	9	0.130783
			8	0.124131	10	0.070440
			10	0.134437	11	0.121454
			12	0.093174	12	0.125760
			13	0.077221	13	0.183842
			BIAS CORR	0.822566		
			VAR COEFF	0.007798		0.008742
			EFFICIENCY	99.58		99.80
12	13	7	1	0.233873	3	0.068118
			3	0.146017	5	0.096578
			5	0.130414	7	0.122288
			7	0.122212	9	0.168841
			9	0.130943	11	0.151801
			11	0.139781	12	0.125609
			13	0.096759	13	0.184170
			BIAS CORR	0.821712		
			VAR COEFF	0.007839		0.008756
			EFFICIENCY	99.06		99.65
12	13	6	1	0.235693	5	0.147082
			3	0.145934	7	0.121570
			5	0.191295	9	0.170336
			9	0.189876	11	0.152813
			11	0.139651	12	0.125602
			13	0.097551	13	0.184966

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.821084	
				VAR COEFF	0.007897	0.008791
				EFFICIENCY	98.33	99.24
13	13		1	0.238276	4	0.155975
			3	0.202866	8	0.199954
			7	0.266614	10	0.197478
			11	0.193785	12	0.172143
			13	0.098459	13	0.184763
				BIAS CORR	0.819891	
				VAR COEFF	0.007989	0.008841
				EFFICIENCY	97.20	98.69
17	13	4	1	0.264719	6	0.266110
			4	0.251065	10	0.265187
			8	0.276830	12	0.173327
			12	0.207387	13	0.186929
				BIAS CORR	0.801215	
				VAR COEFF	0.008165	0.008948
				EFFICIENCY	95.10	97.51
17	13	5	1	0.297454	7	0.328046
			5	0.372600	11	0.314790
			11	0.329946	13	0.228734
				BIAS CORR	0.781992	
				VAR COEFF	0.008551	0.009171
				EFFICIENCY	90.81	95.13
13	13	2	1	0.393629	9	0.551551
			8	0.606371	13	0.303260
				BIAS CORR	0.725651	
				VAR COEFF	0.009692	0.009928
				EFFICIENCY	80.12	87.98
17	13	1	5	1.000000	11	0.251677
				BIAS CORR	0.821573	
				VAR COEFF	0.013261	0.012584
				EFFICIENCY	58.56	69.33
12	12	12	1	0.209790	1	0.012704
			2	0.080500	2	0.023647

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			3	0.068507	3	0.028498
			4	0.066939	4	0.046529
			5	0.059230	5	0.038664
			6	0.065562	6	0.069215
			7	0.057566	7	0.054614
			8	0.065459	8	0.087186
			9	0.060257	9	0.079360
			10	0.066281	10	0.106304
			11	0.065590	11	0.113817
			12	0.134321	12	0.301732
			BIAS CORR	0.802860		
			VAR COEFF	0.007888		0.009454
			EFFICIENCY	100.00		100.00
			EFF(M/N)	98.44		92.28
13	12	11	1	0.209560	2	0.032798
			2	0.082905	3	0.028361
			3	0.061798	4	0.046773
			4	0.078107	5	0.038293
			5	0.047453	6	0.069694
			6	0.099735	7	0.054066
			8	0.099092	8	0.087734
			9	0.048484	9	0.078927
			10	0.077637	10	0.106614
			11	0.058820	11	0.113701
			12	0.136409	12	0.301822
			BIAS CORR	0.802866		
			VAR COEFF	0.007893		0.009456
			EFFICIENCY	99.93		99.98
13	12	10	1	0.209559	2	0.044037
			2	0.083764	4	0.064993
			3	0.058587	5	0.034326
			4	0.102353	6	0.074576
			6	0.106369	7	0.046035
			7	0.037899	8	0.094805
			8	0.106720	9	0.072335
			10	0.101612	10	0.111167
			11	0.056043	11	0.111635
			12	0.137095	12	0.302417
			BIAS CORR	0.802812		

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF	0.007897	0.009458
				EFFICIENCY	99.88	99.76
13	12	9	1	0.209425	2	0.043791
			2	0.085009	4	0.081398
			3	0.055225	6	0.095342
			4	0.105282	7	0.041187
			6	0.124775	8	0.104268
			8	0.124756	9	0.061453
			10	0.104740	10	0.119901
			11	0.052598	11	0.107245
			12	0.138182	12	0.303620
				BIAS CORR	0.802822	
				VAR COEFF	0.007900	0.009461
				EFFICIENCY	99.85	95.93
12	12	8	1	0.211127	2	0.043412
			2	0.075403	4	0.082642
			3	0.101126	6	0.115517
			5	0.131534	8	0.125365
			7	0.121785	9	0.056298
			9	0.132044	10	0.125642
			11	0.097277	11	0.103525
			12	0.130204	12	0.304870
				BIAS CORR	0.802384	
				VAR COEFF	0.007908	0.009463
				EFFICIENCY	99.74	99.90
12	12	7	1	0.209855	2	0.042497
			2	0.107104	4	0.084290
			4	0.136752	6	0.117154
			6	0.126291	8	0.154787
			8	0.126110	10	0.152020
			10	0.135886	11	0.102310
			12	0.158003	12	0.305596
				BIAS CORR	0.802455	
				VAR COEFF	0.007920	0.009470
				EFFICIENCY	99.60	99.83
12	12	6	1	0.211546	4	0.113731
			2	0.107347	6	0.116908

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	k	LOCATION	k	SCALE			
			4	0.195500	8	0.155453			
			8	0.191215	10	0.152974			
			10	0.134679	11	0.101632			
			12	0.159713	12	0.306336			
			BIAS CORR	0.802489					
			VAR COEFF	(.00748)		0.009478			
			EFFICIENCY	98.81		99.64			
13	12	5	1	0.240053	4	0.113521			
			3	0.149655	6	0.120786			
			5	0.143069	8	0.155156			
			9	0.239901	10	0.213330			
			12	0.181722	12	0.345993			
			BIAS CORR	0.800231					
			VAR COEFF	0.008043		0.009528			
EFFICIENCY	98.97		99.23						
13	12	4	1	0.264719	4	0.168859			
			4	0.251062	8	0.217282			
			8	0.276030	10	0.212437			
			12	0.273887	12	0.344517			
			BIAS CORR	0.801215					
			VAR COEFF	0.008165		0.009585			
			EFFICIENCY	98.61		98.63			
13	12	3	1	0.297454	6	0.289152			
			9	0.377600	10	0.286131			
			11	0.329946	12	0.391911			
			BIAS CORR	0.781992					
			VAR COEFF	0.008991		0.009710			
			EFFICIENCY	92.25		97.37			
			13	12	2	1	0.193829	8	0.457409
8	0.606171	12				0.441702			
BIAS CORR	0.729691								
VAR COEFF	0.009692					0.011151			
EFFICIENCY	81.19					93.13			
13	12	1				6	1.000000	11	0.451672
						BIAS CORR	0.821873		
			VAR COEFF	0.013261		0.012504			

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

P	M	L	I	LOCATION	J	SCALE
				59.48		75.13
				EFFICIENCY		
12	11	11	1	0.214345	1	0.014581
			2	0.080018	2	0.020725
			3	0.077067	3	0.048330
			4	0.052849	4	0.013662
			5	0.083744	5	0.098213
			6	0.040287	6	0.011130
			7	0.083491	7	0.114091
			8	0.046072	8	0.045380
			9	0.077434	9	0.124948
			10	0.056120	10	0.088373
			11	0.188773	11	0.417015
				BIAS CORR		
				VAR COEFF		0.010315
				EFFICIENCY		100.00
				(E(M/N))		84.56
12	11	10	1	0.214640	1	0.014644
			2	0.078701	2	0.020352
			3	0.080773	3	0.047353
			4	0.046857	4	0.011474
			5	0.106844	5	0.104620
			7	0.106924	7	0.125554
			8	0.037425	8	0.042476
			9	0.088542	9	0.124028
			10	0.046313	10	0.088647
			11	0.142977	11	0.418173
				BIAS CORR		
				VAR COEFF		0.010318
				EFFICIENCY		100.00
12	11	9	1	0.214916	1	0.014676
			2	0.077264	2	0.020140
			3	0.085437	3	0.054728
			4	0.038440	4	0.111154
			5	0.112408	5	0.127210
			7	0.125182	7	0.039648
			9	0.108611	9	0.131316
			10	0.047384	10	0.083361
			11	0.144888	11	0.417011



TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.781270	
				VAR COEFF	0.008053	0.010319
				EFFICIENCY	99.94	99.99
13	11	5	1	0.215053	1	0.021307
			2	0.077014	3	0.067217
			3	0.102440	5	0.111155
			5	0.133474	7	0.128358
			7	0.125223	8	0.037717
			9	0.113795	9	0.132938
			10	0.035769	10	0.082520
			11	0.197232	11	0.419372
				BIAS CORR	0.781589	
				VAR COEFF	0.008057	0.010321
				EFFICIENCY	99.89	99.98
13	11	7	1	0.215231	1	0.021049
			2	0.076332	3	0.067248
			3	0.102395	5	0.112730
			5	0.135116	7	0.146748
			7	0.125397	9	0.151898
			9	0.133052	10	0.080049
			11	0.212471	11	0.420935
				BIAS CORR	0.781164	
				VAR COEFF	0.008060	0.010323
				EFFICIENCY	99.85	99.95
13	11	9	1	0.241276	3	0.074553
			3	0.150251	5	0.112687
			5	0.135082	7	0.146895
			7	0.126522	9	0.152330
			9	0.134010	10	0.074634
			11	0.212859	11	0.421274
				BIAS CORR	0.783348	
				VAR COEFF	0.008059	0.010330
				EFFICIENCY	99.49	99.39
13	11	5	1	0.241274	3	0.078332
			3	0.150201	5	0.116421
			5	0.135167	7	0.147346
			9	0.145065	9	0.145391

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			11	0.213343	11	0.455730
			BIAS CORR	0.782371		
			VAR COEFF	0.008151		0.010347
			EFFICIENCY	98.73		99.72
12	11	4	1	0.245942	5	0.174580
			3	0.209231	7	0.146660
			7	0.275337	9	0.197216
			11	0.269490	11	0.457785
			BIAS CORR	0.780805		
			VAR COEFF	0.008248		0.010394
			EFFICIENCY	97.58		99.27
12	11	3	1	0.297454	5	0.246965
			5	0.372600	9	0.268401
			11	0.329946	11	0.460130
			BIAS CORR	0.781992		
			VAR COEFF	0.008551		0.010477
			EFFICIENCY	94.12		98.48
12	11	2	1	0.393629	7	0.396474
			8	0.606371	11	0.552623
			BIAS CORR	0.725651		
			VAR COEFF	0.009692		0.010760
			EFFICIENCY	83.04		95.89
12	11	1	6	1.000000	11	0.851677
			BIAS CORR	0.821573		
			VAR COEFF	0.013261		0.012584
			EFFICIENCY	60.69		81.99
12	10	10	1	0.218776	1	0.014114
			2	0.087654	2	0.036267
			3	0.059183	3	0.006272
			4	0.096219	4	0.114827
			5	0.024415	5	-0.037548
			6	0.105867	6	0.165236
			7	0.030778	7	0.001125
			8	0.084869	8	0.151120
			9	0.044097	9	0.053862
			10	0.243146	10	0.537546

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.758088	
				VAR COEFF	0.008245	0.011349
				EFFICIENCY	100.00	100.00
				EFF(M/N)	94.18	76.88
13	10	9	1	0.218695	1	0.014112
			2	0.088286	2	0.036311
			3	0.057458	3	0.006149
			4	0.108864	4	0.115025
			6	0.120362	5	-0.037748
			7	0.026222	6	0.166582
			8	0.096590	8	0.151768
			9	0.036225	9	0.053647
			10	0.247298	10	0.537673
				BIAS CORR	0.758334	
				VAR COEFF	0.008246	0.011349
				EFFICIENCY	99.99	100.00
13	11	8	1	0.218579	1	0.014101
			2	0.087231	2	0.038770
			3	0.054825	4	0.118779
			4	0.111158	5	-0.038282
			6	0.133105	6	0.166819
			8	0.110918	8	0.152536
			9	0.032597	9	0.052487
			10	0.249587	10	0.538190
				BIAS CORR	0.758412	
				VAR COEFF	0.008247	0.011349
				EFFICIENCY	99.97	100.00
13	10	7	1	0.218509	2	0.048874
			2	0.090278	4	0.118884
			3	0.051180	5	-0.038560
			4	0.114176	6	0.166999
			6	0.133979	8	0.152792
			8	0.127453	9	0.052148
			10	0.264425	10	0.538478
				BIAS CORR	0.748221	
				VAR COEFF	0.008249	0.011351
				EFFICIENCY	99.94	99.98

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE				
13	13	6	1	0.218692	2	0.049060				
			2	0.110983	4	0.100730				
			4	0.143228	6	0.147650				
			6	0.133609	8	0.146387				
			8	0.129003	9	0.063266				
			10	0.264486	10	0.532817				
			BIAS CORR		0.758981					
			VAR COEFF		0.008258		0.011354			
			EFFICIENCY		99.84		99.96			
			13	10	5	1	0.220649	2	0.048047	
2	0.112281	4				0.102594				
4	0.142042	6				0.149460				
6	0.202224	8				0.178350				
10	0.322804	10				0.561937				
BIAS CORR		0.756762								
VAR COEFF		0.008326					0.011363			
EFFICIENCY		99.03					99.88			
13	10	4				1	0.252402	4	0.135916	
						3	0.178567	6	0.149197	
			6	0.244789	8	0.179142				
			10	0.324242	10	0.563103				
			BIAS CORR		0.759010					
			VAR COEFF		0.008397		0.011385			
			EFFICIENCY		98.19		99.68			
			13	10	3	1	0.279889	4	0.204590	
						4	0.327636	8	0.256229	
						10	0.392475	10	0.565150	
BIAS CORR		0.758938								
VAR COEFF		0.008636					0.011473			
EFFICIENCY		95.47					98.92			
13	10	2				1	0.393629	6	0.348467	
						8	0.606371	10	0.654555	
						BIAS CORR		0.725651		
						VAR COEFF		0.005692		0.011637
			EFFICIENCY		85.07		97.52			
			13	10	1	6	1.000000	10	0.917117	

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.821573	
				VAR COEFF	0.013261	0.012926
				EFFICIENCY	62.17	87.80
13	9	9	1	0.226551	1	0.018940
			2	0.080370	2	0.016798
			3	0.094557	3	0.087362
			4	0.030045	4	-0.037121
			5	0.117633	5	0.179274
			6	0.021512	6	-0.024379
			7	0.097025	7	0.157404
			8	0.041133	8	0.045377
			9	0.291174	9	0.647300
				BIAS CORR	0.733190	
				VAR COEFF	0.008487	0.012628
				EFFICIENCY	100.00	100.00
				EFF(M/N)	91.50	69.09
12	9	6	1	0.226676	1	0.018825
			2	0.079796	2	0.017459
			3	0.096016	3	0.085726
			4	0.027998	4	-0.034801
			5	0.129145	5	0.166256
			7	0.109183	7	0.143650
			8	0.037295	8	0.049735
			9	0.293891	9	0.644309
				BIAS CORR	0.733338	
				VAR COEFF	0.008488	0.012629
				EFFICIENCY	99.99	99.99
13	9	7	1	0.226783	1	0.024575
			2	0.079444	3	0.096779
			3	0.108580	4	-0.035296
			5	0.144170	5	0.166481
			7	0.112730	7	0.144668
			8	0.030024	8	0.049000
			9	0.298269	9	0.645270
				BIAS CORR	0.733674	
				VAR COEFF	0.008489	0.012631
				EFFICIENCY	99.97	99.98

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE			
13	9	5	1	0.226985	1	0.024661			
			2	0.078377	3	0.081276			
			3	0.109346	5	0.147609			
			5	0.145337	7	0.140284			
			7	0.127363	8	0.057144			
			9	0.312592	9	0.640000			
			BIAS CORR	0.733554					
			VAR COEFF	0.008491		0.012633			
			EFFICIENCY	99.95		99.96			
			13	9	5	1	0.253751	1	0.024289
3	0.158499	3				0.081453			
5	0.145321	5				0.149863			
7	0.128521	7				0.168151			
9	0.313908	9				0.667468			
BIAS CORR	0.735708								
VAR COEFF	0.008522					0.012640			
EFFICIENCY	99.59					99.91			
13	9	4				1	0.255759	3	0.095623
						3	0.158467	5	0.149809
			5	0.209429	7	0.168328			
			9	0.374345	9	0.567959			
			BIAS CORR	0.734605					
			VAR COEFF	0.008586		0.012648			
			EFFICIENCY	98.85		99.94			
			13	9	3	1	0.303452	5	0.221088
						5	0.312628	7	0.167546
						9	0.383920	9	0.672794
BIAS CORR	0.742141								
VAR COEFF	0.008751					0.012718			
EFFICIENCY	96.98					99.29			
13	9	2				1	0.393629	5	0.304114
						8	0.606371	9	0.756962
						BIAS CORR	0.725651		
						VAR COEFF	0.009692		0.012827
			EFFICIENCY	87.57		98.45			
			13	9	1	6	1.000000	9	0.982884

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.821573	
				VAR COEFF	0.013261	0.013779
				EFFICIENCY	64.00	91.64
12	8	P	1	0.232810	1	0.016951
			2	0.095839	2	0.049509
			3	0.056958	3	-0.000664
			4	0.107204	4	0.142510
			5	0.031947	5	-0.015427
			6	0.093864	6	0.145988
			7	0.051972	7	0.060152
			8	0.329407	8	0.746455
				BIAS CORR	0.705024	
				VAR COEFF	0.008790	0.014261
				EFFICIENCY	100.00	100.00
				EFF(M/N)	88.34	61.18
12	8	P	1	0.232770	1	0.016952
			2	0.096299	2	0.049242
			3	0.056003	4	0.142118
			4	0.122698	5	-0.015396
			6	0.111710	6	0.145930
			7	0.047769	7	0.060254
			8	0.332750	8	0.746388
				BIAS CORR	0.706260	
				VAR COEFF	0.008792	0.014261
				EFFICIENCY	99.98	100.00
13	8	P	1	0.232634	1	0.016997
			2	0.097843	2	0.049220
			3	0.051949	4	0.134935
			4	0.126320	6	0.137376
			5	0.134749	7	0.062218
			8	0.356505	8	0.744885
				BIAS CORR	0.706215	
				VAR COEFF	0.008796	0.014261
				EFFICIENCY	99.93	100.00
12	8	P	1	0.232822	2	0.061400
			2	0.118860	4	0.134913
			4	0.155811	6	0.137658

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
			6	0.134373	7	0.061726
			8	0.358132	8	0.745327
				BIAS CORR		
				VAR COEFF		0.014264
				EFFICIENCY		99.97
11	3	4	1	0.234736	2	0.061024
			2	0.119170	4	0.136608
			4	0.218443	6	0.167481
			8	0.427652	8	0.776057
				BIAS CORR		
				VAR COEFF		0.014271
				EFFICIENCY		99.93
11	5	3	1	0.290200	4	0.179047
			4	0.277310	6	0.167194
			8	0.432490	8	0.778641
				BIAS CORR		
				VAR COEFF		0.014308
				EFFICIENCY		99.67
11	8	2	1	0.393629	4	0.256211
			3	0.606371	6	0.867507
				BIAS CORR		
				VAR COEFF		0.014416
				EFFICIENCY		98.91
12	8	1	6	1.000000	8	1.052475
				BIAS CORR		
				VAR COEFF		0.015104
				EFFICIENCY		94.42
13	7	2	1	0.244659	1	0.024328
			2	0.087064	2	0.024774
			3	0.096036	3	0.090726
			4	0.052623	4	0.016030
			5	0.090229	5	0.124367
			6	0.060531	6	0.074471
			7	0.368859	7	0.854458
				BIAS CORR		
				VAR COEFF		0.016375



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				84.74		53.28
				EFFICIENCY		
				EFF(M/N)		
13	7	6	1	0.244892	1	0.024345
			2	0.086857	2	0.024693
			3	0.119449	3	0.097835
			5	0.119738	5	0.133327
			6	0.056788	6	0.073321
			7	0.372276	7	0.855448
				BIAS CORR		
				0.677024		
				VAR COEFF		0.016376
				0.009170		
				EFFICIENCY		100.00
				99.93		
13	7	5	1	0.245269	1	0.032492
			2	0.085771	3	0.113174
			3	0.120732	5	0.133801
			5	0.146898	6	0.072014
			7	0.401330	7	0.856532
				BIAS CORR		
				0.676994		
				VAR COEFF		0.016379
				0.009176		
				EFFICIENCY		99.98
				99.86		
13	7	4	1	0.274657	1	0.032306
			3	0.174596	3	0.113869
			5	0.146887	5	0.168239
			7	0.403861	7	0.893567
				BIAS CORR		
				0.679091		
				VAR COEFF		0.016388
				0.009213		
				EFFICIENCY		99.92
				99.46		
13	7	3	1	0.277143	3	0.132752
			3	0.237379	5	0.168185
			7	0.485478	7	0.894512
				BIAS CORR		
				0.679446		
				VAR COEFF		0.016403
				0.009306		
				EFFICIENCY		99.82
				98.47		
13	7	2	1	0.381206	3	0.203232
			7	0.618794	7	0.989690
				BIAS CORR		
				0.692806		
				VAR COEFF		0.016525
				0.009821		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	93.31	99.09
13	7	1	6	1.000000	7	1.129117
				BIAS CORR	0.821573	0.016987
				VAR COEFF	0.013261	96.40
				EFFICIENCY	69.10	
13	6	0	1	0.255428	1	0.023746
			2	0.101411	2	0.054516
			3	0.076426	3	0.042978
			4	0.086687	4	0.099790
			5	0.070613	5	0.083660
			6	0.404235	6	0.980121
				BIAS CORR	0.644684	0.019274
				VAR COEFF	0.009636	100.00
				EFFICIENCY	100.00	45.43
				EFF (M/N)	80.38	
13	6	1	1	0.255546	1	0.023718
			2	0.102164	2	0.071822
			3	0.075282	4	0.124586
			4	0.120278	5	0.082540
			6	0.446750	6	0.981458
				BIAS CORR	0.644740	0.019210
				VAR COEFF	0.009647	99.97
				EFFICIENCY	99.89	
13	6	"	1	0.255472	2	0.088940
			2	0.132713	4	0.124662
			4	0.163063	5	0.082293
			6	0.448297	6	0.981905
				BIAS CORR	0.645434	0.019216
				VAR COEFF	0.009665	99.94
				EFFICIENCY	99.70	
13	6	"	1	0.292273	2	0.088948
			3	0.211999	4	0.162864
			6	0.495728	6	1.025654
				BIAS CORR	0.647089	0.019230
				VAR COEFF	0.009748	99.86
				EFFICIENCY	98.85	

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

n	m	L	l	LOCATION	l	SCALE	
11	6	7	1	0.272576	4	0.224739	
			6	0.677477	6	1.927467	
			BIAS CORR		0.694769		
			VAR CORR		0.019100		0.019397
			EFFICIENCY		99.35		99.97
11	6	1	6	1.926091	6	1.217177	
			BIAS CORR		0.677477		
			VAR CORR		0.019100		0.019466
			EFFICIENCY		97.97		97.97
			11	6	7	1	0.272576
7	0.677477	7				0.049816	
8	0.694769	8				0.061197	
9	0.696977	9				0.073100	
10	0.698200	10				1.127069	
BIAS CORR		0.694769					
VAR CORR		0.019100		0.021751			
EFFICIENCY		100.00		100.00			
EFFICIENCY		99.35		97.69			
11	6	8	1	0.272576	7	0.072577	
			7	0.677477	8	0.061000	
			6	0.677467	9	0.060056	
			5	0.677019	10	1.127067	
			BIAS CORR		0.677467		
VAR CORR		0.019100		0.072777			
EFFICIENCY		99.35		97.95			
11	6	9	1	0.272576	8	0.072576	
			8	0.677477	9	0.127066	
			7	0.677467	10	1.127067	
			BIAS CORR		0.677467		
			VAR CORR		0.019100		0.072777
EFFICIENCY		99.35		99.97			
11	6	10	1	0.272576	9	0.127066	
			9	0.677477	10	1.127066	
			BIAS CORR		0.677467		
			VAR CORR		0.019100		0.021766
			EFFICIENCY		0.019061		0.021766

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 12)

SHAPE PARAMETER = 3.00

n	k	i	j	LOCATION		SCALE	
				EFFICIENCY			
11	3	1	1	1.000000	9	1.323067	
			2	0.796073			
			3	0.013033			0.023914
			EFFICIENCY	76.30			48.67
11	4	2	1	0.274385	1	0.037633	
			2	0.117177	2	0.044197	
			3	0.076647	3	0.040933	
			4	0.047865	4	1.306757	
			BIAS CORR	0.960907			
			VAR CORR	0.011091			0.027773
			EFFICIENCY	100.00			100.00
EFFICIENCY	70.01			74.74			
11	4	3	1	0.274385	2	0.044197	
			2	0.117177	3	0.040933	
			3	0.076647	4	1.306757	
			BIAS CORR	0.960907			
VAR CORR	0.011120			0.027916			
EFFICIENCY	99.76			99.95			
11	4	4	1	0.264441	2	0.119176	
			2	0.683333	3	1.334971	
			BIAS CORR	0.972277			
			VAR CORR	0.011773			0.027337
EFFICIENCY	98.24			99.86			
11	4	5	1	1.000000	4	1.490117	
			2	0.800000			
			VAR CORR	0.013076			0.023901
			EFFICIENCY	79.73			49.79
11	5	6	1	0.327027	1	0.009173	
			2	0.129771	2	0.014441	
			3	0.047741	3	1.000000	
			BIAS CORR	0.971471			
VAR CORR	0.012331			0.023644			
EFFICIENCY	100.00			100.00			
EFFICIENCY	67.77			71.98			

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM 1-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.00

N	M	L	LOCATION		SCALE	
			1	2	1	2
11	2	2	1	2.362797	2	0.123751
			3	2.630058	3	1.941203
			BIAS CORR		0.571317	
			VAR COEFF		0.017407	0.037117
		EFFICIENCY		97.37	99.73	
11	1	1	1	1.073001	3	1.645877
			BIAS CORR		0.207695	
			VAR COEFF		0.014688	0.034417
					EFFICIENCY	
11	2	2	1	0.181187	1	0.073757
			2	2.618610	2	1.974137
			BIAS CORR		0.817381	
			VAR COEFF		0.014410	0.061351
		EFFICIENCY		130.70	100.00	
		EFFICIENCY		93.82	121.77	
11	2	1	2	1.000000	2	1.740716
			BIAS CORR		0.513776	
			VAR COEFF		0.014177	0.041401
					EFFICIENCY	
11	1	1	1	1.000000	1	1.611116
			BIAS CORR		1.177777	
			VAR COEFF		0.013957	0.137013
					EFFICIENCY	
		EFFICIENCY		82.74	81.00	

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.90

n	m	l	i	LOCATION		SCALE	
				1	2	1	2
11	11	11	1	0.167430	0.013276	1	0.013276
			2	0.077750	0.073249	2	0.073249
			3	0.073197	0.026417	3	0.026417
			4	0.077457	0.047319	4	0.047319
			5	0.073407	0.059219	5	0.059219
			6	0.074446	0.071564	6	0.071564
			7	0.074517	0.085657	7	0.085657
			8	0.083472	0.101744	8	0.101744
			9	0.084065	0.117499	9	0.117499
			10	0.078177	0.135160	10	0.135160
			11	0.115207	0.221710	11	0.221710
BIAS CORR				0.004837			
VAR CORR				0.007284		0.007279	
EFFICIENCY				100.00		100.00	
EFFICIENCY				100.00		100.00	
11	11	11	1	0.167996	0.039077	1	0.039077
			2	0.078484	0.034477	2	0.034477
			3	0.077407	0.047947	3	0.047947
			4	0.107947	0.051138	4	0.051138
			5	0.118137	0.071707	5	0.071707
			6	0.076497	0.088865	6	0.088865
			7	0.086787	0.101851	7	0.101851
			8	0.084714	0.117477	8	0.117477
			9	0.077760	0.130707	9	0.130707
			10	0.118338	0.221710	10	0.221710
			11	0.078833			
BIAS CORR				0.007276		0.007271	
VAR CORR				99.84		99.84	
11	11	11	1	0.163694	0.067504	1	0.067504
			2	0.077181	0.068667	2	0.068667
			3	0.104067	0.088951	3	0.088951
			4	0.130111	0.077088	4	0.077088
			5	0.120570	0.084057	5	0.084057
			6	0.078273	0.101716	6	0.101716
			7	0.078104	0.117137	7	0.117137
			8	0.078681	0.130671	8	0.130671
			9	0.118863	0.221667	9	0.221667
			10	0.079074			
			11	0.077208			
BIAS CORR				0.007616		0.007616	
VAR CORR				0.007208		0.007208	

TABLE 11  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

L	M	L	L	LOCATION	L	SCALE
				EFFICIENCY	99.68	99.92
11	11	8	1	0.163505	2	0.049537
			2	0.076829	4	0.046037
			3	0.106737	6	0.103875
			5	0.150484	7	0.087065
			7	0.167440	8	0.105806
			9	0.177820	9	0.119673
			10	0.095527	10	0.191740
			11	0.114117	11	0.221473
				BIAS CORR		
				VAN COEFF		0.007647
				EFFICIENCY	99.68	99.92
11	11	9	1	0.153484	3	0.088801
			2	0.107476	5	0.119776
			4	0.150414	7	0.124176
			6	0.150864	8	0.097767
			8	0.176116	9	0.129614
			10	0.174975	10	0.149601
			11	0.115882	11	0.2272617
				BIAS CORR		
				VAN COEFF		0.007654
				EFFICIENCY	99.19	99.67
11	11	6	1	0.159785	3	0.086466
			2	0.106864	5	0.120737
			3	0.152803	7	0.124316
			7	0.164738	9	0.168977
			9	0.171493	10	0.149474
			11	0.145016	11	0.223248
				BIAS CORR		
				VAN COEFF		0.007477
				EFFICIENCY	98.41	99.14
11	11	5	1	0.147041	4	0.167314
			2	0.107950	7	0.209481
			4	0.243033	9	0.168567
			9	0.228714	10	0.151710
			11	0.144767	11	0.229415
				BIAS CORR		

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

L	P	I	I	LOCATION		SCALE	
				VAR COEFF	0.007460		0.007773
				EFFICIENCY	97.38		98.79
11	11	6	1	0.217923	5	0.226403	
			4	0.294772	8	0.252965	
			8	0.324333	10	0.202720	
			11	0.173372	11	0.226713	
				BIAS CORR	0.005871		
				VAR COEFF	0.007636		0.007809
			EFFICIENCY	93.14		97.74	
11	11	9	1	0.268191	5	0.282616	
			6	0.427202	9	0.391694	
			12	0.309647	11	0.276670	
				BIAS CORR	0.079084		
				VAR COEFF	0.008045		0.007475
				EFFICIENCY	90.30		99.49
11	11	12	3	0.488836	8	0.332637	
			9	0.511164	11	0.332400	
				BIAS CORR	0.403795		
				VAR COEFF	0.007060		0.008937
				EFFICIENCY	80.18		87.16
11	11	1	4	1.000001	4	0.047292	
				BIAS CORR	0.400143		
				VAR COEFF	0.011711		0.010932
				EFFICIENCY	40.99		69.78
11	12	1	1	0.166782	1	0.014561	
			2	0.080106	2	0.071448	
			3	0.074781	3	0.034376	
			4	0.075200	4	0.081479	
			5	0.074468	5	0.062777	
			6	0.074367	6	0.081672	
			7	0.080338	7	0.091610	
			8	0.085441	8	0.112601	
			9	0.090881	9	0.132458	
			10	0.147494	10	0.337274	
				BIAS CORR	0.044646		
	VAR COEFF	0.007498		0.008379			



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION		SCALE			
				EFFICIENCY (EFF(M/N))	100.00 97.60	100.00 90.84			
11	10	9	1	0.166915	2	0.038744			
			2	0.080614	3	0.039789			
			3	0.074067	4	0.054020			
			4	0.110552	5	0.062179			
			5	0.118842	6	0.081776			
			6	0.077800	7	0.091500			
			7	0.099327	8	0.112721			
			8	0.088382	9	0.132458			
			9	0.123497	10	0.357398			
						BIAS CORR	0.004885		
			VAR COEFF	0.007470		0.008421			
			EFFICIENCY	99.95		99.97			
11	10	8	1	0.167071	2	0.054376			
			2	0.081903	3	0.076809			
			3	0.072087	4	0.061556			
			4	0.112940	5	0.081061			
			5	0.124406	6	0.084840			
			6	0.124784	7	0.114201			
			7	0.087421	8	0.131701			
			8	0.124708	9	0.357771			
						BIAS CORR	0.004473		
						VAR COEFF	0.007482		0.008406
			EFFICIENCY	99.68		99.91			
11	10	7	1	0.167282	2	0.094365			
			2	0.117320	3	0.107577			
			3	0.124018	4	0.115665			
			4	0.129727	5	0.081746			
			5	0.127262	6	0.114179			
			6	0.086409	7	0.130012			
			7	0.124467	8	0.356745			
						BIAS CORR	0.004580		
						VAR COEFF	0.007477		0.008413
						EFFICIENCY	99.50		99.82
11	10	6	1	0.167865	2	0.094776			
			2	0.110482	3	0.106479			

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
			4	0.154874	6	0.160383
			6	0.159618	8	0.158997
			8	0.177923	9	0.129159
			10	0.229754	10	0.359839
				BIAS CORR		
				0.864108		
				VAR COEFF		0.008429
				EFFICIENCY		99.63
11	10	1	1	0.195507	3	0.095582
			3	0.191547	5	0.132445
			6	0.203229	7	0.193376
			8	0.178088	9	0.184622
			10	0.231629	10	0.358141
				BIAS CORR		
				0.866709		
				VAR COEFF		0.008457
				EFFICIENCY		99.30
11	11	1	1	0.220100	4	0.146046
			4	0.248490	6	0.161949
			7	0.263879	8	0.235184
			10	0.267980	10	0.413716
				BIAS CORR		
				0.867795		
				VAR COEFF		0.008911
				EFFICIENCY		98.48
11	12	1	1	0.268191	5	0.248804
			6	0.472202	8	0.221308
			10	0.309647	10	0.519118
				BIAS CORR		
				0.879084		
				VAR COEFF		0.008612
				EFFICIENCY		97.92
11	13	1	3	0.488836	6	0.416609
			9	0.911164	10	0.519735
				BIAS CORR		
				0.903789		
				VAR COEFF		0.008792
				EFFICIENCY		94.92
11	11	1	6	1.000000	4	0.489271
				BIAS CORR		
				0.900143		
				VAR COEFF		0.010911

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	J	LOCATION	J	SCALE
				EFFICIENCY	62.62	76.81
11	9	9	1	0.172539	1	0.016344
			2	0.082277	2	0.029948
			3	0.079401	3	0.047872
			4	0.073087	4	0.050700
			5	0.064367	5	0.081992
			6	0.071834	6	0.078344
			7	0.086571	7	0.109916
			8	0.086571	8	0.170617
			9	0.260346	9	0.480456
				BIAS CORR		
				VAR COEFF	0.007715	0.009349
				EFFICIENCY	100.00	100.00
				EFF (M/N)	94.14	81.60
11	9	8	1	0.172905	2	0.047050
			2	0.081740	3	0.047814
			3	0.080977	4	0.050749
			4	0.071346	5	0.081971
			5	0.121490	6	0.074936
			7	0.125069	7	0.108799
			8	0.086597	8	0.170754
			9	0.261906	9	0.480507
				BIAS CORR	0.007730	
				VAR COEFF	0.007726	0.009357
				EFFICIENCY	99.97	99.97
11	9	7	1	0.173507	2	0.041971
			2	0.091661	3	0.070214
			3	0.112959	4	0.107044
			4	0.159453	5	0.077071
			7	0.127589	7	0.111250
			8	0.091363	8	0.114601
			9	0.264027	9	0.481997
				BIAS CORR	0.030166	
				VAR COEFF	0.007788	0.007130
				EFFICIENCY	97.79	99.97
11	9	6	1	0.173687	3	0.106807
			2	0.091159	4	0.119360

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

n	m	l	i	LOCATION		SCALE			
			3	0.113250	6	0.076127			
			5	0.160777	7	0.112551			
			7	0.171133	8	0.117646			
			9	0.300037	9	0.482916			
			BIAS CORR	0.837471					
			VAR COEFF	0.007754		0.009370			
			EFFICIENCY	99.49		99.77			
11	9	5	1	0.200196	3	0.105120			
			3	0.169116	5	0.147607			
			5	0.161306	7	0.151179			
			7	0.172166	8	0.119760			
			9	0.301216	9	0.484649			
			BIAS CORR	0.839860					
			VAR COEFF	0.007788		0.009381			
EFFICIENCY	99.06		99.65						
11	7	6	1	0.207773	3	0.109449			
			3	0.200663	5	0.144961			
			5	0.299767	7	0.211161			
			7	0.141397	9	0.537117			
			BIAS CORR	0.810990					
			VAR COEFF	0.007077		0.009411			
			EFFICIENCY	97.94		99.37			
11	9	7	1	0.290978	4	0.197128			
			3	0.262969	7	0.256378			
			5	0.306493	9	0.341077			
			BIAS CORR	0.849873					
			VAR COEFF	0.008097		0.009459			
			EFFICIENCY	95.27		98.92			
			11	9	7	3	0.488836	5	0.34461
5	0.911164	9				0.649731			
BIAS CORR	0.903755								
VAR COEFF	0.007060					0.009695			
EFFICIENCY	89.15					96.41			
11	9	1				6	1.000000	9	0.899758
						BIAS CORR	0.900143		
			VAR COEFF	0.011911		0.010932			

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZE 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	J	LOCATION	J	SCALE
				EFFICIENCY	64.77	85.31
11	8	0	1	0.179563	1	0.017952
			2	0.087391	2	0.027079
			3	0.076840	3	0.042209
			4	0.087217	4	0.079276
			5	0.073315	5	0.065402
			6	0.088824	6	0.107996
			7	0.084384	7	0.111219
			8	0.327466	8	0.100047
				BIAS CORR		
				VAR (COEFF)		0.010967
				EFFICIENCY	100.00	100.00
				EFF (M/N)	90.37	72.33
11	8	2	1	0.179721	1	0.050379
			2	0.087079	2	0.042165
			3	0.076179	3	0.079339
			4	0.121999	4	0.065797
			5	0.127672	5	0.108192
			6	0.081925	6	0.111026
			7	0.124640	7	0.090331
			8	0.080675	8	
				BIAS CORR		
				VAR (COEFF)		0.010591
				EFFICIENCY	69.70	99.91
11	9	0	1	0.179500	1	0.087100
			2	0.084014	2	0.103701
			3	0.079107	3	0.064612
			4	0.124062	4	0.100552
			5	0.169424	5	0.109371
			6	0.163663	6	0.081625
			7	0.080773	7	
			8	0.089064	8	
				BIAS CORR		
				VAR (COEFF)		0.010596
				EFFICIENCY	99.79	99.91
11	9	2	1	0.180727	1	0.087148
			2	0.118663	2	0.134019
			3	0.165720	3	0.143757
			4	0.167889	4	0.107219
			5	0.164688	5	0.603729

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

r	M	L	j	LOCATION		SCALE	
				BIAS CORR	0.809618		
				VAR COEFF	0.008082		0.010565
				EFFICIENCY	99.47		99.83
11	11	4	1		0.210307	2	0.067069
			3		0.209276	4	0.135144
			5		0.217464	6	0.198456
			7		0.367003	8	0.655338
				BIAS CORR	0.811855		
				VAR COEFF	0.008156		0.010559
				EFFICIENCY	98.97		99.60
11	5	2	1		0.236224	4	0.182675
			4		0.304022	6	0.194949
			7		0.454744	8	0.658147
				BIAS CORR	0.813488		
				VAR COEFF	0.008294		0.010503
				EFFICIENCY	96.87		99.19
11	7	1	2		0.409610	5	0.304648
			8		0.590390	8	0.717501
				BIAS CORR	0.853391		
				VAR COEFF	0.009088		0.010795
				EFFICIENCY	88.46		97.70
11	11	1	4		1.000000	8	0.965919
				BIAS CORR	0.909143		
				VAR COEFF	0.011911		0.011609
				EFFICIENCY	67.90		90.97
11	7	3	1		0.189163	1	0.021441
			2		0.088678	2	0.035977
			3		0.089974	3	0.067123
			4		0.076154	4	0.089426
			5		0.091409	5	0.104174
			6		0.083454	6	0.104793
			7		0.380718	7	0.726721
				BIAS CORR	0.777726		
				VAR COEFF	0.008431		0.011111
				EFFICIENCY	100.00		100.00
				EFFICIENCY	82.76		83.08

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE				
11	7	6	1	0.189597	2	0.051856				
			2	0.088064	3	0.067085				
			3	0.091694	4	0.059489				
			4	0.074340	5	0.104071				
			5	0.133516	6	0.105027				
			7	0.422789	7	0.720923				
			BIAS CORR		0.777565					
			VAR COEFF		0.009465		0.012106			
			EFFICIENCY		99.84		99.95			
			11	7	6	1	0.189921	2	0.051742	
2	0.088014	3				0.093313				
3	0.124567	5				0.136775				
5	0.173513	6				0.103414				
7	0.423905	7				0.722695				
BIAS CORR		0.777948								
VAR COEFF		0.008478					0.012115			
EFFICIENCY		99.58					99.80			
11	7	4				1	0.218793	3	0.136040	
						3	0.180883	5	0.137416	
			5	0.174141	6	0.102291				
			7	0.420184	7	0.724505				
			BIAS CORR		0.780285					
			VAR COEFF		0.008518		0.012133			
			EFFICIENCY		97.71		99.74			
			11	7	2	1	0.221937	3	0.136531	
						3	0.256046	5	0.187513	
						7	0.522017	7	0.776221	
BIAS CORR		0.780669								
VAR COEFF		0.009649					0.012154			
EFFICIENCY		97.71					99.57			
11	7	2				1	0.328867	4	0.252575	
						7	0.671133	7	0.835275	
						BIAS CORR		0.797603		
						VAR COEFF		0.009251		0.012276
			EFFICIENCY		91.34		98.58			
			11	7	1	6	1.000000	7	1.034963	

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.900143	
				VAR COEFF	0.011911	0.012828
				EFFICIENCY	70.95	94.34
11	6	5	1	0.200303	1	0.023673
			2	0.097786	2	0.049739
			3	0.085860	3	0.058370
			4	0.092942	4	0.094826
			5	0.087222	5	0.101486
			6	0.435883	6	0.847379
				BIAS CORR	0.743630	
				VAR COEFF	0.008980	0.014195
				EFFICIENCY	100.00	100.00
				EFF(M/N)	80.89	53.74
11	6	4	1	0.200553	2	0.067276
			2	0.098364	3	0.058326
			3	0.085180	4	0.094907
			4	0.134270	5	0.101371
			6	0.481633	6	0.847860
				BIAS CORR	0.743642	
				VAR COEFF	0.008996	0.014201
				EFFICIENCY	99.82	99.95
11	6	3	1	0.201002	2	0.090438
			2	0.132482	4	0.128680
			4	0.183341	5	0.100596
			6	0.483175	6	0.849151
				BIAS CORR	0.744461	
				VAR COEFF	0.009019	0.014212
				EFFICIENCY	99.57	99.88
11	6	2	1	0.234437	2	0.090569
			3	0.228749	4	0.175782
			6	0.536815	6	0.902273
				BIAS CORR	0.746442	
				VAR COEFF	0.009106	0.014234
				EFFICIENCY	98.62	99.73
11	6	1	1	0.316980	4	0.240298
			6	0.683020	6	0.907007



TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.758567	
				VAR COEFF	0.009527	0.014315
				EFFICIENCY	94.26	99.16
11	6	1	6	1.000000	6	1.110934
				BIAS CORR	0.900143	
				VAR COEFF	0.011911	0.014700
				EFFICIENCY	75.39	96.55
11	5	3	1	0.216403	1	0.029656
			2	0.107122	2	0.052966
			3	0.098106	3	0.082673
			4	0.093347	4	0.099736
			5	0.490022	5	0.986270
				BIAS CORR	0.705694	
				VAR COEFF	0.009681	0.017155
				EFFICIENCY	100.00	100.00
				EFF(M/N)	75.04	44.44
11	5		1	0.216906	2	0.074940
			2	0.102109	3	0.062634
			3	0.139436	4	0.099840
			4	0.541549	5	0.966755
				BIAS CORR	0.705920	
				VAR COEFF	0.009702	0.017176
				EFFICIENCY	99.78	99.94
11	5	3	1	0.250592	2	0.107794
			3	0.204914	4	0.147730
			5	0.544494	5	0.987567
				BIAS CORR	0.709199	
				VAR COEFF	0.009755	0.017197
				EFFICIENCY	99.23	99.81
11	5	2	1	0.310426	3	0.183585
			5	0.689574	5	1.044198
				BIAS CORR	0.715736	
				VAR COEFF	0.010032	0.017237
				EFFICIENCY	96.49	99.58
11	5	1	5	1.000000	5	1.199349

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.833786	
				VAR COEFF	0.012173	0.017511
				EFFICIENCY	79.52	98.03
11	4	4	1	0.237552	1	0.035981
			2	0.113394	2	0.069242
			3	0.104661	3	0.092875
			4	0.544392	4	1.147166
				BIAS CORR	0.662425	
				VAR COEFF	0.010656	0.021704
				EFFICIENCY	100.00	100.00
				EFF(M/N)	68.17	35.15
11	4	4	1	0.238251	2	0.095916
			2	0.155405	3	0.096797
			4	0.606344	4	1.147918
				BIAS CORR	0.663111	
				VAR COEFF	0.010691	0.021720
				EFFICIENCY	99.67	99.93
11	4	2	1	0.308531	2	0.134426
			4	0.691469	4	1.205034
				BIAS CORR	0.668133	
				VAR COEFF	0.010858	0.021750
				EFFICIENCY	98.14	99.79
11	4	1	4	1.000000	4	1.309072
				BIAS CORR	0.763900	
				VAR COEFF	0.012797	0.021929
				EFFICIENCY	83.27	98.97
11	3	4	1	0.269875	1	0.047897
			2	0.127295	2	0.089749
			3	0.602829	3	1.348793
				BIAS CORR	0.611166	
				VAR COEFF	0.012124	0.029486
				EFFICIENCY	100.00	100.00
				EFF(M/N)	59.92	25.87
11	3	2	1	0.312286	2	0.125274
			3	0.687714	3	1.349934

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.613369	
				VAR COEFF	0.012207	0.029514
				EFFICIENCY	99.32	99.91
11	3	1	3	1.000000	3	1.457804
				BIAS CORR	0.685963	
				VAR COEFF	0.013937	0.029618
				EFFICIENCY	86.99	99.55
11	2	2	1	0.324875	1	0.069993
			2	0.675125	2	1.637745
				BIAS CORR	0.546475	
				VAR COEFF	0.014664	0.045824
				EFFICIENCY	100.00	100.00
				EFF(M/N)	49.54	16.65
11	2	1	2	1.000000	2	1.691435
				BIAS CORR	0.591214	
				VAR COEFF	0.016037	0.045882
				EFFICIENCY	91.43	99.87
11	1	1	1	1.000000	1	2.205059
				BIAS CORR	0.453503	
				VAR COEFF	0.020596	0.100146
				EFFICIENCY	100.00	100.00
				EFF(M/N)	35.27	7.62
12	12	12	1	0.154941	1	0.011440
			2	0.072847	2	0.021683
			3	0.067709	3	0.031081
			4	0.066331	4	0.040529
			5	0.067302	5	0.049909
			6	0.068364	6	0.060354
			7	0.071333	7	0.071018
			8	0.073831	8	0.083764
			9	0.079041	9	0.098009
			10	0.082785	10	0.116313
			11	0.089869	11	0.141718
			12	0.106648	12	0.206886
				BIAS CORR	0.889273	
				VAR COEFF	0.006653	0.006978

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	100.00	100.00
				EFF(M/N)	100.00	100.00
12	12	11	1	0.155345	2	0.030198
			2	0.071590	3	0.031020
			3	0.071114	4	0.040626
			4	0.061750	5	0.049728
			5	0.102806	6	0.060626
			7	0.108558	7	0.070730
			8	0.066709	8	0.084038
			9	0.096210	9	0.097864
			10	0.077401	10	0.116409
			11	0.091929	11	0.141727
			12	0.106487	12	0.206932
				BIAS CORR	0.889326	
				VAR COEFF	0.006661	0.006980
				EFFICIENCY	99.89	99.98
12	12	11	1	0.154877	2	0.042363
			2	0.075398	4	0.059300
			3	0.061392	5	0.048071
			4	0.102828	6	0.063327
			5	0.137734	7	0.066948
			8	0.117435	8	0.088122
			9	0.064108	9	0.094896
			10	0.092082	10	0.117900
			11	0.086803	11	0.141378
			12	0.107342	12	0.207062
				BIAS CORR	0.889404	
				VAR COEFF	0.006668	0.006983
				EFFICIENCY	99.78	99.94
12	12	9	1	0.155915	2	0.042313
			2	0.069989	4	0.081685
			3	0.099303	6	0.090255
			5	0.137671	7	0.061938
			7	0.143085	8	0.095430
			9	0.121570	9	0.087920
			10	0.072084	10	0.122106
			11	0.093957	11	0.140127
			12	0.106427	12	0.207354

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		0.889457
				VAR COEFF		0.00665
				EFFICIENCY		99.68
12	12	8	1	0.155134	2	0.042019
			2	0.099377	4	0.083008
			4	0.139344	6	0.120670
			6	0.138819	8	0.127140
			8	0.152973	9	0.084431
			10	0.120451	10	0.125178
			11	0.086156	11	0.138969
			12	0.107745	12	0.207747
				BIAS CORR		0.889702
				VAR COEFF		0.006687
				EFFICIENCY		99.50
12	12	7	1	0.178828	3	0.074033
			3	0.144008	5	0.102628
			5	0.139527	7	0.143847
			7	0.144514	9	0.144723
			9	0.163916	10	0.107331
			11	0.122305	11	0.145552
			12	0.106902	12	0.207085
				BIAS CORR		0.890484
				VAR COEFF		0.006713
				EFFICIENCY		99.11
12	12	6	1	0.181756	4	0.114020
			3	0.169986	6	0.121951
			6	0.183340	8	0.172926
			8	0.150532	10	0.162889
			10	0.180167	11	0.138902
			12	0.134218	12	0.208755
				BIAS CORR		0.888929
				VAR COEFF		0.006777
				EFFICIENCY		98.17
12	12	5	1	0.201525	5	0.160740
			4	0.256066	7	0.144355
			8	0.226868	9	0.208992
			10	0.179932	11	0.188814

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
			12	0.135609	12	0.208952
			BIAS CORR	0.892052		
			VAR COEFF	0.006857		0.007074
			EFFICIENCY	97.03		98.65
12	12	4	1	0.223866	5	0.232290
			5	0.312717	9	0.277008
			9	0.303606	11	0.190132
			12	0.159812	12	0.211148
			BIAS CORR	0.890094		
			VAR COEFF	0.007017		0.007147
			EFFICIENCY	94.82		97.65
12	12	5	1	0.253912	6	0.309252
			6	0.432337	10	0.335076
			11	0.313751	12	0.258001
			BIAS CORR	0.871545		
			VAR COEFF	0.007408		0.007314
			EFFICIENCY	89.82		95.41
12	12	2	3	0.453112	8	0.540801
			9	0.546888	12	0.340698
			BIAS CORR	0.880450		
			VAR COEFF	0.008353		0.007890
			EFFICIENCY	79.65		88.44
12	12	1	7	1.000000	10	0.884666
			BIAS CORR	0.930380		
			VAR COEFF	0.010953		0.010012
			EFFICIENCY	60.75		69.70
12	11	11	1	0.158671	1	0.012539
			2	0.074364	2	0.023200
			3	0.070111	3	0.035543
			4	0.066040	4	0.040352
			5	0.071927	5	0.060710
			6	0.066214	6	0.052046
			7	0.076420	7	0.084505
			8	0.072893	8	0.085835
			9	0.081128	9	0.109499
			10	0.083495	10	0.124326

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
			11	0.178736	11	0.333999
			BIAS CORR	0.866309		
			VAR COEFF	0.006812		0.007617
			EFFICIENCY	100.00		100.00
			EFF(M/N)	97.66		91.62
12	11	10	1	0.159057	2	0.032533
			2	0.073144	3	0.035477
			3	0.073406	4	0.040460
			4	0.061603	5	0.060515
			5	0.106309	6	0.058344
			7	0.112565	7	0.084193
			8	0.065997	8	0.086135
			9	0.089037	9	0.109343
			10	0.078280	10	0.124434
			11	0.180601	11	0.334056
			BIAS CORR	0.866396		
			VAR COEFF	0.006820		0.007618
			EFFICIENCY	99.89		99.98
12	11	9	1	0.159440	2	0.032207
			2	0.071717	3	0.053324
			3	0.078326	5	0.064033
			4	0.052943	6	0.054794
			5	0.112681	7	0.089832
			7	0.145988	8	0.079300
			9	0.121055	9	0.115097
			10	0.076287	10	0.121497
			11	0.181563	11	0.334999
			BIAS CORR	0.866156		
			VAR COEFF	0.006827		0.007622
			EFFICIENCY	99.78		99.93
12	11	8	1	0.159621	2	0.031314
			2	0.071557	3	0.054387
			3	0.101517	5	0.110460
			5	0.141075	7	0.119381
			7	0.146629	8	0.074188
			9	0.124047	9	0.121152
			10	0.072987	10	0.117440
			11	0.182568	11	0.336539

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.866542	
				VAR COEFF	0.006833	0.007627
				EFFICIENCY	99.69	99.87
12	11	7	1	0.160047	3	0.080318
			2	0.071100	5	0.110401
			3	0.101670	7	0.120935
			5	0.142810	8	0.072066
			7	0.146950	9	0.122616
			9	0.166309	10	0.116958
			11	0.211115	11	0.336934
				BIAS CORR	0.865299	
				VAR COEFF	0.006849	0.007633
				EFFICIENCY	99.47	99.79
12	11	6	1	0.183064	3	0.080345
			3	0.147240	5	0.112293
			5	0.142971	7	0.157287
			7	0.148104	9	0.157089
			9	0.166942	10	0.115460
			11	0.211679	11	0.338019
				BIAS CORR	0.867500	
				VAR COEFF	0.006873	0.007642
				EFFICIENCY	99.12	99.55
12	11	5	1	0.185460	4	0.124783
			3	0.179903	6	0.132005
			6	0.217793	8	0.168213
			9	0.201914	10	0.176726
			11	0.214930	11	0.332609
				BIAS CORR	0.867441	
				VAR COEFF	0.006947	0.007675
				EFFICIENCY	98.07	99.24
12	11	4	1	0.207288	5	0.175470
			4	0.262494	7	0.157964
			8	0.284636	9	0.226410
			11	0.245582	11	0.386476
				BIAS CORR	0.868624	
				VAR COEFF	0.007047	0.007726
				EFFICIENCY	96.68	96.59



TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE			
12	11		1	0.253912	5	0.254013			
			6	0.432337	9	0.301112			
			11	0.313751	11	0.390195			
			BIAS CORR	0.871545					
			VAR COEFF	0.007408		0.007813			
			EFFICIENCY	91.47		97.49			
12	11	2	3	0.453112	7	0.436721			
			9	0.546888	11	0.466177			
			BIAS CORR	0.880450					
			VAR COEFF	0.008353		0.008130			
			EFFICIENCY	81.56		93.69			
			12	11	1	7	1.000000	10	0.884666
BIAS CORR	0.930380								
VAR COEFF	0.010953					0.010012			
EFFICIENCY	62.20					76.27			
12	13	1				1	0.163319	1	0.013460
						2	0.077872	2	0.028041
			3	0.067517	3	0.029713			
			4	0.078663	4	0.062643			
			5	0.057614	5	0.033711			
			6	0.086110	6	0.049669			
			7	0.063781	7	0.063191			
			8	0.084591	8	0.117442			
			9	0.077367	9	0.104167			
			10	0.243161	10	0.452799			
			BIAS CORR	0.841858					
VAR COEFF	0.007019		0.005389						
EFFICIENCY	100.00		100.00						
(E/M/N)	94.79		83.19						
12	13	9	1	0.161706	2	0.034074			
			2	0.078727	3	0.029641			
			3	0.065704	4	0.065773			
			4	0.106598	5	0.033697			
			6	0.118461	6	0.099927			
			7	0.057666	7	0.062852			
			8	0.093937	8	0.113819			

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
			9	0.068862	9	0.108000
			10	0.247169	10	0.450974
			BIAS CORR	0.842151		
			VAR COEFF	0.007025		0.008391
			EFFICIENCY	99.92		99.98
12	10	8	1	0.163226	2	0.038462
			2	0.080091	3	0.028555
			3	0.061961	4	0.082079
			4	0.110020	6	0.118884
			6	0.146772	7	0.059263
			8	0.123287	8	0.119023
			9	0.065296	9	0.103017
			10	0.249344	10	0.453306
			BIAS CORR	0.842133		
			VAR COEFF	0.007031		0.008393
			EFFICIENCY	99.84		99.95
12	10	7	1	0.163308	2	0.049663
			2	0.081251	4	0.098557
			3	0.058165	6	0.120504
			4	0.113385	7	0.055956
			6	0.147809	8	0.122541
			8	0.158139	9	0.100510
			10	0.277942	10	0.454376
			BIAS CORR	0.841575		
			VAR COEFF	0.007040		0.008395
			EFFICIENCY	99.71		99.92
12	10	6	1	0.163493	2	0.049397
			2	0.104298	4	0.099746
			4	0.146891	6	0.147961
			6	0.147875	8	0.151177
			8	0.159477	9	0.097364
			10	0.277965	10	0.456472
			BIAS CORR	0.842383		
			VAR COEFF	0.007050		0.008401
			EFFICIENCY	99.57		99.86
12	10	5	1	0.190741	2	0.048673
			3	0.177642	4	0.101488

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
			6	0.193203	6	0.149597
			8	0.156601	8	0.203221
			10	0.281814	10	0.499820
			BIAS CORR	0.844866		
			VAR COEFF	0.007111		0.008421
			EFFICIENCY	98.72		99.62
12	10	4	1	0.211383	4	0.136276
			4	0.268918	6	0.149545
			8	0.237048	8	0.204127
			10	0.282651	10	0.501036
			BIAS CORR	0.847616		
			VAR COEFF	0.007197		0.008443
			EFFICIENCY	97.53		99.36
12	10	3	1	0.254470	4	0.204619
			6	0.384430	8	0.280389
			10	0.361101	10	0.504617
			BIAS CORR	0.855165		
			VAR COEFF	0.007441		0.008521
			EFFICIENCY	94.33		98.45
12	10	2	3	0.453112	6	0.367773
			9	0.546888	10	0.601636
			BIAS CORR	0.880450		
			VAR COEFF	0.008353		0.008712
			EFFICIENCY	84.03		96.29
12	10	1	7	1.000000	10	0.894666
			BIAS CORR	0.930380		
			VAR COEFF	0.010953		0.010012
			EFFICIENCY	64.09		83.79
12	9	9	1	0.169758	1	0.015902
			2	0.077015	2	0.023838
			3	0.083235	3	0.059440
			4	0.053079	4	0.016413
			5	0.098940	5	0.115813
			6	0.051541	6	0.035835
			7	0.092405	7	0.122668
			8	0.070634	8	0.092365

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
			9	0.303384	9	0.564705
			BIAS CORR	0.815878		
			VAR COEFF	0.007276		0.009338
			EFFICIENCY	100.00		100.00
			EFF(M/N)	91.44		74.73
12	9	5	1	0.170026	1	0.015926
			2	0.076094	2	0.023698
			3	0.085626	3	0.066671
			4	0.049985	5	0.125243
			5	0.125402	6	0.034548
			7	0.120413	7	0.124839
			8	0.065463	8	0.089642
			9	0.306991	9	0.566221
			BIAS CORR	0.816043		
			VAR COEFF	0.007281		0.009338
			EFFICIENCY	99.94		99.99
12	9	7	1	0.170207	1	0.016038
			2	0.075791	2	0.023069
			3	0.107642	3	0.067335
			5	0.152326	5	0.141837
			7	0.124989	7	0.143408
			8	0.057554	8	0.086501
			9	0.311491	9	0.568449
			BIAS CORR	0.816483		
			VAR COEFF	0.007286		0.009340
			EFFICIENCY	99.87		99.97
12	9	9	1	0.170518	1	0.023298
			2	0.074581	3	0.081977
			3	0.108627	5	0.141796
			5	0.153812	7	0.144334
			7	0.154046	8	0.085169
			9	0.338416	9	0.569204
			BIAS CORR	0.816193		
			VAR COEFF	0.007292		0.009343
			EFFICIENCY	99.78		99.95
12	9	11	1	0.194695	3	0.096318
			3	0.156455	5	0.141794

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
			5	0.154012	7	0.144916
			7	0.155276	8	0.084485
			9	0.339563	9	0.570031
			BIAS CORR	0.818365		
			VAR COEFF	0.007319		0.009351
			EFFICIENCY	99.42		99.96
12	9	4	1	0.197058	3	0.096380
			3	0.157198	5	0.144000
			5	0.231784	7	0.187624
			9	0.413961	9	0.609988
			BIAS CORR	0.816920		
			VAR COEFF	0.007403		0.009363
			EFFICIENCY	98.29		99.72
12	9	5	1	0.240656	5	0.217103
			5	0.336944	7	0.187708
			9	0.422400	9	0.614892
			BIAS CORR	0.825191		
			VAR COEFF	0.007553		0.009429
			EFFICIENCY	96.34		99.03
12	9	7	3	0.453112	5	0.311092
			9	0.546888	9	0.708263
			BIAS CORR	0.880450		
			VAR COEFF	0.008353		0.009552
			EFFICIENCY	87.11		97.75
12	9	1	7	1.000000	9	0.946053
			BIAS CORR	0.930380		
			VAR COEFF	0.010953		0.010441
			EFFICIENCY	66.43		89.43
12	8	8	1	0.176282	1	0.016045
			2	0.087253	2	0.040678
			3	0.063552	3	0.020107
			4	0.099785	4	0.107783
			5	0.049760	5	0.022987
			6	0.095972	6	0.125256
			7	0.070014	7	0.085192
			8	0.357382	8	0.674822

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		0.787964
				VAR COEFF		0.007597
				EFFICIENCY		100.00
				EFF(M/N)		87.58
12	9	7	1	0.176273	1	0.015994
			2	0.087829	2	0.040923
			3	0.062449	3	0.019582
			4	0.123512	4	0.118721
			6	0.123508	6	0.137956
			7	0.065326	7	0.083015
			8	0.361103	8	0.676503
				BIAS CORR		0.788235
				VAR COEFF		0.007601
				EFFICIENCY		99.94
12	8	6	1	0.176210	1	0.015973
			2	0.089360	2	0.048633
			3	0.058445	4	0.129986
			4	0.127215	6	0.138976
			6	0.155535	7	0.080869
			8	0.393235	8	0.677904
				BIAS CORR		0.788115
				VAR COEFF		0.007608
				EFFICIENCY		99.95
12	8	5	1	0.176396	2	0.060495
			2	0.112519	4	0.129964
			4	0.160883	6	0.139213
			6	0.155602	7	0.080521
			8	0.394600	8	0.678274
				BIAS CORR		0.788924
				VAR COEFF		0.007618
				EFFICIENCY		99.95
12	8	4	1	0.206646	2	0.060168
			3	0.191540	4	0.131654
			6	0.206656	6	0.178706
			8	0.395158	8	0.718094
				BIAS CORR		0.790930
				VAR COEFF		0.007696

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	98.71	99.85
12	3	2	1	0.228305	4	0.174774
			4	0.291095	6	0.178730
			8	0.480599	8	0.720763
				BIAS CORR		
				0.793612		
				VAR COEFF		0.010595
				0.007786		
				EFFICIENCY	97.57	99.53
12	8	2	2	0.386274	4	0.256898
			8	0.613726	8	0.815097
				BIAS CORR		
				0.831194		
				VAR COEFF		0.010698
				0.008454		
				EFFICIENCY	89.96	98.49
12	8	1	7	1.000000	8	1.006251
				BIAS CORR		
				0.930380		
				VAR COEFF		0.011310
				0.010953		
				EFFICIENCY	69.36	93.09
12	7	7	1	0.186868	1	0.021064
			2	0.082672	2	0.027783
			3	0.093881	3	0.078621
			4	0.060356	4	0.031704
			5	0.095693	5	0.115551
			6	0.072699	6	0.085440
			7	0.407831	7	0.785706
				BIAS CORR		
				0.757706		
				VAR COEFF		0.012094
				0.007997		
				EFFICIENCY	100.00	100.00
				EFF(M/N)	83.19	57.70
12	7	6	1	0.187105	1	0.021094
			2	0.082471	2	0.027640
			3	0.120409	3	0.092509
			5	0.129727	5	0.133384
			6	0.069058	6	0.083506
			7	0.411230	7	0.787419
				BIAS CORR		
				0.758116		
				VAR COEFF		0.012097
				0.008005		
				EFFICIENCY	99.90	99.98

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE			
12	7	3	1	0.187490	1	0.029798			
			2	0.081425	3	0.110065			
			3	0.121738	5	0.133902			
			5	0.162828	6	0.082250			
			7	0.446518	7	0.788524			
			BIAS CORR	0.758073					
			VAR COEFF	0.008013		0.012100			
			EFFICIENCY	99.80		99.95			
12	7	4	1	0.213957	1	0.029639			
			3	0.174019	3	0.110756			
			5	0.163080	5	0.173302			
			7	0.448944	7	0.830791			
			BIAS CORR	0.760231					
			VAR COEFF	0.009045		0.012112			
			EFFICIENCY	99.41		99.86			
			12	7	5	1	0.216408	3	0.129033
3	0.242737	5				0.173308			
7	0.540856	7				0.831769			
BIAS CORR	0.760920								
VAR COEFF	0.008147					0.012125			
EFFICIENCY	98.16					99.75			
12	7	2				1	0.314635	3	0.200550
						7	0.685365	7	0.930981
			BIAS CORR	0.776834					
			VAR COEFF	0.008645		0.012239			
			EFFICIENCY	92.51		98.82			
			12	7	1	7	1.000000	7	1.074829
						BIAS CORR	0.930380		
						VAR COEFF	0.010953		0.012653
EFFICIENCY	73.02					95.58			
12	6	-				1	0.197331	1	0.021517
						2	0.096375	2	0.050461
						3	0.078011	3	0.045760
						4	0.092556	4	0.097395
			5	0.079501	5	0.088162			



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
			6	0.456226	6	0.905150
			BIAS CORR	0.724636		
			VAR COEFF	0.008510		0.014191
			EFFICIENCY	100.00		100.00
			EFF(M/N)	78.19		49.17
12	6	5	1	0.197447	2	0.066468
			2	0.097164	3	0.045706
			3	0.076814	4	0.097502
			4	0.130057	5	0.087938
			5	0.498518	6	0.905647
			BIAS CORR	0.724718		
			VAR COEFF	0.008521		0.014196
			EFFICIENCY	99.86		99.96
12	6	4	1	0.197789	2	0.084475
			2	0.127670	4	0.124262
			4	0.174369	5	0.086779
			5	0.500173	6	0.907044
			BIAS CORR	0.725492		
			VAR COEFF	0.008539		0.014203
			EFFICIENCY	99.66		99.92
12	6	3	1	0.230582	2	0.084590
			3	0.216782	4	0.164349
			6	0.552635	6	0.953393
			BIAS CORR	0.727408		
			VAR COEFF	0.008618		0.014216
			EFFICIENCY	98.74		99.82
12	6	2	1	0.306428	4	0.225233
			6	0.693572	6	0.957471
			BIAS CORR	0.738896		
			VAR COEFF	0.008964		0.014283
			EFFICIENCY	94.93		99.36
12	6	1	6	1.000000	6	1.149549
			BIAS CORR	0.869906		
			VAR COEFF	0.011040		0.014589
			EFFICIENCY	77.08		97.27

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE			
12	5	3	1	0.213957	1	0.028254			
			2	0.098085	2	0.047867			
			3	0.095181	3	0.079787			
			4	0.087609	4	0.090497			
			5	0.505168	5	1.039065			
			BIAS CORR	0.687823					
			VAR COEFF	0.009183		0.017163			
			EFFICIENCY	100.00		100.00			
			EFF(M/N)	72.45		40.66			
		12	5	4	1	0.214406	2	0.068893	
2	0.097957				3	0.079741			
3	0.133644				4	0.090633			
4	0.553993				5	1.039458			
	BIAS CORR				0.688072				
	VAR COEFF			0.009200		0.017172			
	EFFICIENCY			99.82		99.95			
12	5			2	1	0.246457	2	0.068688	
					3	0.196688	3	0.119404	
					5	0.556855	5	1.090062	
			BIAS CORR		0.690212				
			VAR COEFF		0.009246		0.017190		
			EFFICIENCY	99.32		99.84			
		12	5	2	1	0.302556	3	0.176453	
					5	0.697444	5	1.091909	
						BIAS CORR	0.697366		
						VAR COEFF	0.009482		0.017219
	EFFICIENCY				96.85		99.67		
12	5			1	5	1.000000	5	1.237645	
						BIAS CORR	0.807986		
						VAR COEFF	0.011395		0.017440
						EFFICIENCY	80.66		98.41
					12	4	4	1	0.234850
		2	0.110046	2				0.065191	
		3	0.100164	3				0.089778	
		4	0.554930	4				1.196530	
			BIAS CORR	0.645801					

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF	0.010118	0.021702
				EFFICIENCY	100.00	100.00
				EFF(M/N)	65.76	32.16
12	4	2	1	0.235468	2	0.090242
			2	0.149921	3	0.089728
			4	0.614611	4	1.197191
				BIAS CORR	0.646470	
				VAR COEFF	0.010148	0.021715
				EFFICIENCY	99.71	99.94
12	4	2	1	0.302597	2	0.125653
			4	0.697403	4	1.250410
				BIAS CORR	0.651232	
				VAR COEFF	0.010293	0.021739
				EFFICIENCY	98.30	99.83
12	4	1	4	1.000000	4	1.347970
				BIAS CORR	0.741856	
				VAR COEFF	0.012045	0.021896
				EFFICIENCY	84.01	99.16
12	2	2	1	0.267138	1	0.044978
			2	0.123489	2	0.083896
			3	0.609373	3	1.396276
				BIAS CORR	0.595956	
				VAR COEFF	0.011521	0.029485
				EFFICIENCY	100.00	100.00
				EFF(M/N)	57.75	23.67
12	3	2	1	0.307941	2	0.117401
			3	0.692059	3	1.397173
				BIAS CORR	0.598056	
				VAR COEFF	0.011594	0.029508
				EFFICIENCY	99.37	99.92
12	3	1	3	1.000000	3	1.498504
				BIAS CORR	0.667332	
				VAR COEFF	0.013179	0.029594
				EFFICIENCY	87.42	99.63

TABLE I'

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE	
12	2	2	1	0.321899	1	0.065694	
			2	0.678101	2	1.685694	
			BIAS CORR	0.532977			
			VAR COEFF	0.013945		0.045823	
			EFFICIENCY	100.00		100.00	
			EFF(M/N)	47.71		15.23	
12	2	1	2	1.000000	2	1.736140	
				BIAS CORR	0.575990		
				VAR COEFF	0.015219		0.045872
				EFFICIENCY	91.63		99.89
12	1	1	1	1.000000	1	2.260565	
				BIAS CORR	0.442367		
				VAR COEFF	0.019597		0.100146
				EFFICIENCY	100.00		100.00
				EFF(M/N)	33.95		6.97
12	13	13	1	0.148494	1	0.010003	
			2	0.068202	2	0.018672	
			3	0.064292	3	0.027496	
			4	0.059079	4	0.033143	
			5	0.064787	5	0.044389	
			6	0.059382	6	0.049972	
			7	0.067533	7	0.061810	
			8	0.063397	8	0.068832	
			9	0.072765	9	0.0829 6	
			10	0.070388	10	0.093393	
			11	0.078916	11	0.111685	
			12	0.083447	12	0.134062	
			13	0.099317	13	0.194082	
				BIAS CORR	0.888752		
	VAR COEFF	0.006137		0.006430			
	EFFICIENCY	100.00		100.00			
	EFF(M/N)	100.00		100.00			
12	13	12	1	0.149296	1	0.010457	
			2	0.063055	2	0.015491	
			3	0.080609	3	0.042884	
			4	0.028676	5	0.077474	
			5	0.113837	6	0.024815	

TABLE 11  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
			7	0.113273	7	0.086554
			8	0.074931	8	0.041012
			9	0.116231	9	0.112565
			10	0.033418	10	0.069578
			11	0.097463	11	0.124419
			12	0.077019	12	0.130154
			13	0.100199	13	0.194619
				BIAS CORR		
				VAR COEFF		0.006431
				EFFICIENCY		99.99
11	13	11	1	0.149524	1	0.016696
			2	0.061471	2	0.017234
			3	0.095968	3	0.044944
			4	0.019365	4	0.093500
			5	0.121286	5	0.107407
			6	0.124898	6	0.031925
			7	0.132128	7	0.123916
			8	0.026943	8	0.059076
			9	0.103346	9	0.130563
			10	0.075664	10	0.126196
			11	0.100400	11	0.194897
				BIAS CORR		
				VAR COEFF		0.006451
				EFFICIENCY		99.98
13	13	13	1	0.149581	1	0.016022
			2	0.061185	2	0.053791
			3	0.093975	3	0.090619
			4	0.131361	4	0.103960
			5	0.124909	5	0.029309
			6	0.136536	6	0.125999
			7	0.021089	7	0.057795
			8	0.105890	8	0.131179
			9	0.075047	9	0.128034
			10	0.100476	10	0.194947
				BIAS CORR		
				VAR COEFF		0.006432
				EFFICIENCY		99.96
13	13	9	1	0.149571	2	0.034752

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

n	M	L	l	LOCATION	l	SCALE
			2	0.060571	4	0.074477
			3	0.093832	6	0.103412
			5	0.132883	8	0.123170
			7	0.125069	9	0.035490
			9	0.147507	10	0.133634
			11	0.115084	11	0.089249
			12	0.074860	12	0.141315
			13	0.100525	13	0.193234
			BIAS CORR	0.888630		
			VAR COEFF	0.006141		0.006433
			EFFICIENCY	99.93		99.94
12	12	0	1	0.147599	2	0.033850
			2	0.090923	4	0.076051
			4	0.131616	6	0.105134
			6	0.129210	8	0.149187
			9	0.134431	10	0.150866
			11	0.156342	11	0.087726
			12	0.111603	12	0.142082
			13	0.098196	13	0.193152
			BIAS CORR	0.988425		
			VAR COEFF	0.006151		0.006435
			EFFICIENCY	99.77		99.91
13	13	0	1	0.169726	3	0.061465
			3	0.132544	5	0.076617
			5	0.133928	7	0.113034
			7	0.128449	9	0.170179
			9	0.148288	11	0.157790
			11	0.164708	12	0.126578
			13	0.122357	13	0.195513
			BIAS CORR	0.887498		
			VAR COEFF	0.006184		0.006442
			EFFICIENCY	99.24		99.81
13	13	0	1	0.171221	4	0.099778
			3	0.131756	6	0.109823
			5	0.197196	8	0.140127
			9	0.212404	10	0.202364
			11	0.163912	12	0.176244
			13	0.123511	13	0.193674

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.887386	
				VAR COEFF	0.006233	0.006465
				EFFICIENCY	98.46	99.45
13	13	5	1	0.173360	4	0.148995
			3	0.189155	8	0.198485
			7	0.284641	10	0.200052
			11	0.228055	12	0.177897
			13	0.124789	13	0.195164
				BIAS CORR	0.886914	
				VAR COEFF	0.006316	0.006503
				EFFICIENCY	97.16	98.28
13	13	4	1	0.211494	6	0.259368
			5	0.292861	10	0.269947
			9	0.330746	12	0.178424
			13	0.164899	13	0.197123
				BIAS CORR	0.883011	
				VAR COEFF	0.006486	0.006578
				EFFICIENCY	94.62	97.75
13	13	3	1	0.224244	7	0.331941
			5	0.380814	11	0.322810
			11	0.394942	13	0.241384
				BIAS CORR	0.846948	
				VAR COEFF	0.006847	0.006744
				EFFICIENCY	89.63	95.35
13	13	2	4	0.486355	9	0.551693
			10	0.513645	13	0.321265
				BIAS CORR	0.904114	
				VAR COEFF	0.007716	0.007308
				EFFICIENCY	79.54	87.99
13	13	1	7	1.000000	11	0.872110
				BIAS CORR	0.900200	
				VAR COEFF	0.010758	0.009261
				EFFICIENCY	60.41	69.43
13	12	12	1	0.151177	1	0.009767
			2	0.073296	2	0.027738

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 2.50

N	M	L	I	LOCATION	I	SCALE
			3	0.053785	3	0.005143
			4	0.083617	4	0.084871
			5	0.035076	5	-0.016376
			6	0.092560	6	0.120232
			7	0.038685	7	0.004162
			8	0.095513	8	0.138282
			9	0.043279	9	0.025480
			10	0.096332	10	0.151786
			11	0.066723	11	0.092193
			12	0.169958	12	0.320766
			BIAS CORR	0.867725		
			VAR COEFF	0.006269		0.006965
			EFFICIENCY	100.00		100.00
			EFF(M/N)	97.89		92.32
12	12	11	1	0.150765	1	0.009711
			2	0.076258	2	0.028128
			3	0.044352	3	0.003909
			4	0.107121	4	0.087155
			6	0.121359	5	-0.019177
			7	0.017172	6	0.123726
			8	0.120058	8	0.141745
			9	0.016316	9	0.022602
			10	0.118581	10	0.154282
			11	0.054704	11	0.090774
			12	0.173313	12	0.321175
			BIAS CORR	0.867873		
			VAR COEFF	0.006270		0.006965
			EFFICIENCY	99.99		100.00
13	12	11	1	0.150619	1	0.009691
			2	0.077346	2	0.029512
			3	0.040981	4	0.090121
			4	0.109991	5	-0.020585
			6	0.129761	6	0.124465
			8	0.130631	8	0.142922
			9	0.011224	9	0.020634
			10	0.123645	10	0.155622
			11	0.051482	11	0.090158
			12	0.174321	12	0.321331
			BIAS CORR	0.867880		



TABLE 11  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF EFFICIENCY		0.006270 99.98 0.006965 100.00
12	12	9	1	0.150560	1	0.009322
			2	0.077878	2	0.029850
			3	0.039001	4	0.080237
			4	0.111618	6	0.113756
			6	0.130272	8	0.136901
			8	0.136098	9	0.031772
			10	0.129164	10	0.146881
			11	0.050862	11	0.094606
			12	0.174546	12	0.320187
				BIAS CORR		
				VAR COEFF		0.006966
				EFFICIENCY		99.99
13	12	8	1	0.150619	2	0.036276
			2	0.093162	4	0.095327
			4	0.134027	5	-0.032268
			6	0.129836	6	0.131265
			8	0.138050	8	0.153280
			10	0.130806	10	0.167561
			11	0.048303	11	0.085980
			12	0.175195	12	0.322313
				BIAS CORR		
				VAR COEFF		0.006967
				EFFICIENCY		99.98
13	12	7	1	0.150704	2	0.036359
			2	0.092720	4	0.081605
			4	0.134041	6	0.115324
			6	0.132604	8	0.152211
			8	0.137482	10	0.162334
			10	0.158661	11	0.073201
			12	0.193788	12	0.320863
				BIAS CORR		
				VAR COEFF		0.006968
				EFFICIENCY		99.96
13	12	5	1	0.190955	4	0.107901
			4	0.181502	6	0.114915

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
			6	0.132462	8	0.153073
			8	0.139499	10	0.163706
			10	0.160572	11	0.091923
			12	0.195010	12	0.321697
			BIAS CORR	0.872443		
			VAR COEFF	0.006333		0.006980
			EFFICIENCY	98.99		99.79
12	12		1	0.192258	4	0.107129
			4	0.242071	6	0.127341
			8	0.210311	8	0.152205
			10	0.157742	10	0.217110
			12	0.197619	12	0.357879
			BIAS CORR	0.872864		
			VAR COEFF	0.006387		0.007002
			EFFICIENCY	98.15		99.47
12	12	4	1	0.195470	4	0.161146
			4	0.245253	8	0.215241
			8	0.305594	10	0.214693
			12	0.253683	12	0.361016
			BIAS CORR	0.867137		
			VAR COEFF	0.006489		0.007047
			EFFICIENCY	90.62		98.84
12	12	4	1	0.224244	6	0.282209
			5	0.380814	10	0.290863
			11	0.394942	12	0.363521
			BIAS CORR	0.848948		
			VAR COEFF	0.006847		0.007133
			EFFICIENCY	91.56		97.64
12	12	4	4	0.486355	6	0.453112
			10	0.513645	12	0.459000
			BIAS CORR	0.904114		
			VAR COEFF	0.007716		0.007469
			EFFICIENCY	81.25		93.25
12	12	1	7	1.000000	11	0.872110
			BIAS CORR	0.900200		
			VAR COEFF	0.010158		0.009251

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				61.72		75.21
				EFFICIENCY		
12	11	11	1	0.157468	1	0.015503
			2	0.057753	2	-0.004671
			3	0.112365	3	0.119981
			4	-0.027052	4	-0.133333
			5	0.186825	5	0.283846
			6	-0.058727	6	-0.176586
			7	0.181620	7	0.258352
			8	-0.044672	8	-0.134928
			9	0.187519	9	0.313986
			10	-0.017248	10	-0.067102
			11	0.264150	11	0.491517
				BIAS CORR		
				0.846592		
				VAR COEFF		0.007567
				0.006429		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		84.98
				95.46		
12	11	10	1	0.157250	1	0.014092
			2	0.059360	3	0.116205
			3	0.107052	4	-0.131430
			4	-0.016588	5	0.281367
			5	0.173101	6	-0.174034
			6	-0.045384	7	0.285814
			7	0.169910	8	-0.132170
			8	-0.032944	9	0.311076
			9	0.171377	10	-0.064888
			11	0.256866	11	0.490622
				BIAS CORR		
				0.846499		
				VAR COEFF		0.007567
				0.006429		
				EFFICIENCY		100.00
				100.00		
12	11	9	1	0.157149	3	0.126183
			2	0.060106	4	-0.134507
			3	0.099359	5	0.285336
			5	0.161562	6	-0.178075
			6	-0.040560	7	0.289907
			7	0.163454	8	-0.136657
			8	-0.023729	9	0.315753
			9	0.165490	10	-0.068505
			11	0.257169	11	0.492254

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		0.846238
				VAR COEFF		0.006429
				EFFICIENCY		99.99
12	11	0	1	0.156963	3	0.110238
			2	0.061573	4	-0.093858
			3	0.098296	5	0.232034
			5	0.157052	6	-0.126434
			6	-0.034074	7	0.245106
			7	0.149447	8	-0.092070
			9	0.153875	9	0.252905
			11	0.258868	11	0.463475
				BIAS CORR		0.846179
				VAR COEFF		0.006430
				EFFICIENCY		99.98
12	11	7	1	0.156823	3	0.096076
			2	0.062624	4	-0.060746
			3	0.097232	5	0.195317
			5	0.141047	6	-0.097368
			7	0.133674	7	0.189259
			9	0.151684	9	0.205370
			11	0.256917	11	0.463505
				BIAS CORR		0.845837
				VAR COEFF		0.006432
				EFFICIENCY		99.95
12	11	6	1	0.176915	3	0.069940
			3	0.137440	5	0.159646
			5	0.140750	6	-0.089076
			7	0.135005	7	0.185738
			9	0.152839	9	0.200519
			11	0.257052	11	0.463460
				BIAS CORR		0.847763
				VAR COEFF		0.006449
				EFFICIENCY		99.68
12	11	5	1	0.178559	3	0.069151
			3	0.136660	5	0.117852
			5	0.207346	7	0.144672
			9	0.220305	9	0.195015

TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
			11	0.257131	11	0.466085
			BIAS CORR	0.847251		
			VAR COEFF	0.006504		0.007601
			EFFICIENCY	98.85		99.55
13	11	4	1	0.180839	5	0.170948
			3	0.197070	7	0.143195
			7	0.297764	9	0.197399
			11	0.324327	11	0.462011
			BIAS CORR	0.846376		
			VAR COEFF	0.006593		0.007632
			EFFICIENCY	97.51		99.14
13	11	2	1	0.224244	5	0.240217
			5	0.390814	9	0.269130
			11	0.394942	11	0.469541
			BIAS CORR	0.848948		
			VAR COEFF	0.006847		0.007693
			EFFICIENCY	93.89		98.35
13	11	2	4	0.486355	7	0.390046
			11	0.513645	11	0.565895
			BIAS CORR	0.904114		
			VAR COEFF	0.007716		0.007905
			EFFICIENCY	83.32		95.72
13	11	1	7	1.000000	11	0.872110
			BIAS CORR	0.900200		
			VAR COEFF	0.010158		0.009261
			EFFICIENCY	63.28		81.71
13	10	10	1	0.157491	1	0.007706
			2	0.092807	2	0.060727
			3	0.005286	3	-0.086967
			4	0.190303	4	0.285162
			5	-0.097812	5	-0.262935
			6	0.227970	6	0.376711
			7	-0.071545	7	-0.195540
			8	0.210891	8	0.359926
			9	-0.070310	9	-0.177185
			10	0.354920	10	0.662781

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.824672	
				VAR COEFF	0.006620	0.008272
				EFFICIENCY	100.00	100.00
				EFF(M/N)	92.70	77.73
13	10	9	1	0.157438	2	0.066585
			2	0.094787	3	-0.087365
			4	0.194869	4	0.285897
			5	-0.100552	5	-0.263908
			6	0.230778	6	0.377739
			7	-0.074543	7	-0.196593
			8	0.214429	8	0.361083
			9	-0.074019	9	-0.179330
			10	0.356812	10	0.663401
				BIAS CORR	0.824798	
				VAR COEFF	0.006621	0.008273
				EFFICIENCY	100.00	99.99
13	10	9	1	0.158294	2	0.034594
			2	0.096478	4	0.210905
			4	0.170859	5	-0.219151
			5	-0.057515	6	0.332112
			6	0.193149	7	-0.147430
			7	-0.045565	8	0.303333
			8	0.163950	9	-0.117376
			10	0.320351	10	0.633495
				BIAS CORR	0.824460	
				VAR COEFF	0.006626	0.008299
				EFFICIENCY	99.92	99.79
13	10	7	1	0.158703	4	0.239052
			2	0.096737	5	-0.225199
			4	0.164952	6	0.337900
			5	-0.048626	7	-0.153612
			6	0.167567	8	0.311725
			8	0.142408	9	-0.126703
			10	0.318258	10	0.639057
				BIAS CORR	0.824075	
				VAR COEFF	0.006628	0.008299
				EFFICIENCY	99.88	99.67

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE			
13	10	5	1	0.158946	4	0.200785			
			2	0.096671	5	-0.151821			
			4	0.142808	6	0.273867			
			6	0.144124	7	-0.104477			
			8	0.140662	8	0.225747			
			10	0.316788	10	0.577306			
			BIAS CORR	0.823304					
			VAR COEFF	0.006632		0.006315			
			EFFICIENCY	99.82		99.48			
			13	10	5	1	0.200976	4	0.183194
4	0.192362	5				-0.131633			
6	0.144051	6				0.215410			
8	0.142787	8				0.176546			
10	0.319821	10				0.573189			
BIAS CORR	0.828146								
VAR COEFF	0.006689					0.008329			
EFFICIENCY	98.98					99.31			
13	10	4				1	0.203393	4	0.128438
						4	0.190427	6	0.152237
			6	0.219424	8	0.172183			
			10	0.386756	10	0.570641			
			BIAS CORR	0.826893					
			VAR COEFF	0.006751		0.008357			
			EFFICIENCY	98.06		98.90			
			13	10	3	1	0.241945	4	0.197170
						6	0.360735	8	0.253653
						10	0.397320	10	0.571494
BIAS CORR	0.836613								
VAR COEFF	0.006936					0.008429			
EFFICIENCY	95.45					96.13			
13	10	2				4	0.486355	6	0.342102
						10	0.513645	10	0.660971
						BIAS CORR	0.904114		
						VAR COEFF	0.007716		0.009535
			EFFICIENCY	85.81		96.92			
			13	10	1	7	1.000000	10	0.929261

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.900200	
				VAR COEFF	0.010158	0.009520
				EFFICIENCY	65.17	86.89
13	9	4	1	0.168581	1	0.018616
			2	0.060297	2	-0.004867
			3	0.125221	3	0.143184
			4	-0.036882	4	-0.152376
			5	0.200689	5	0.313100
			6	-0.048312	6	-0.151637
			7	0.168747	7	0.269480
			8	-0.026946	8	-0.091901
			9	0.388604	9	0.725564
				BIAS CORR	0.798720	
				VAR COEFF	0.006877	0.009233
				EFFICIENCY	100.00	100.00
				EFF(M/N)	89.24	69.64
13	9	-	1	0.168349	1	0.017172
			2	0.062066	3	0.139952
			3	0.119723	4	-0.151705
			4	-0.027115	5	0.312354
			5	0.189798	6	-0.150761
			6	-0.039588	7	0.268398
			7	0.152243	8	-0.090500
			9	0.374524	9	0.727827
				BIAS CORR	0.798532	
				VAR COEFF	0.006878	0.009233
				EFFICIENCY	99.99	100.00
13	9	7	1	0.168332	3	0.151095
			2	0.062357	4	-0.152946
			3	0.107849	5	0.313784
			5	0.173846	6	-0.152370
			6	-0.035825	7	0.273510
			7	0.150582	8	-0.093149
			9	0.372858	9	0.721622
				BIAS CORR	0.798012	
				VAR COEFF	0.006879	0.009237
				EFFICIENCY	99.97	99.95



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE			
11	9	1	1	0.169188	3	0.136764			
			2	0.063962	4	-0.119425			
			3	0.106733	5	0.276626			
			5	0.157021	6	-0.122952			
			7	0.131998	7	0.213985			
			9	0.170598	9	0.681541			
			BIAS CORR	0.747642					
			VAR COEFF	0.006681		0.009246			
			EFFICIENCY	99.94		99.86			
11	9	2	1	0.144555	3	0.130008			
			3	0.147484	4	-0.107520			
			5	0.156725	5	0.212813			
			7	0.135347	7	0.157395			
			9	0.171885	9	0.674352			
			BIAS CORR	0.793568					
			VAR COEFF	0.006899		0.009262			
			EFFICIENCY	99.68		99.63			
			11	9	4	1	0.140207	3	0.084590
3	0.146705	5				0.156833			
5	0.223499	7				0.158026			
9	0.239589	9				0.671093			
BIAS CORR	0.799040								
VAR COEFF	0.006954					0.009291			
EFFICIENCY	98.90					99.35			
13	9	1				1	0.230025	5	0.222031
						5	0.321882	7	0.156286
			9	0.448093	9	0.675415			
			BIAS CORR	0.806685					
			VAR COEFF	0.007075		0.009334			
			EFFICIENCY	97.20		98.08			
			13	9	2	3	0.428251	5	0.297834
						9	0.571749	9	0.755432
						BIAS CORR	0.858484		
VAR COEFF	0.007778					0.009410			
EFFICIENCY	84.42					98.12			
13	9	1				7	1.000000	9	0.986148

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.900200	
				VAR COEFF	0.010158	0.010154
				EFFICIENCY	87.70	90.93
11	5	-	1	0.172325	1	0.012392
			2	0.093836	2	0.056996
			3	0.031647	3	-0.039688
			4	0.145715	4	0.201557
			5	-0.007752	5	-0.087452
			6	0.132258	6	0.199386
			7	0.027835	7	0.003311
			8	0.404136	8	0.774123
				BIAS CORR	0.770188	
				VAR COEFF	0.007205	0.010484
				EFFICIENCY	100.00	100.00
				EFF(M/N)	85.17	81.33
11	6	7	1	0.172365	1	0.012356
			2	0.093632	2	0.057151
			3	0.032144	3	-0.040150
			4	0.141804	4	0.202261
			5	0.127651	5	-0.093116
			7	0.029720	6	0.201239
			8	0.402684	8	0.775839
				BIAS CORR	0.770098	
				VAR COEFF	0.007205	0.010484
				EFFICIENCY	100.00	100.00
11	8	-	1	0.172181	2	0.066398
			2	0.095040	3	-0.040209
			3	0.028176	4	0.202377
			4	0.145352	5	-0.068389
			6	0.141468	6	0.201409
			8	0.417763	8	0.776024
				BIAS CORR	0.770130	
				VAR COEFF	0.007207	0.010485
				EFFICIENCY	99.98	99.98
11	8	-	1	0.172207	2	0.066721
			2	0.106099	4	0.170460
			4	0.161537	5	-0.066279

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
			6	0.141034	6	0.201140
			8	0.419124	8	0.774454
				BIAS CORR		
				VAR COEFF		0.010490
				EFFICIENCY		99.94
12	8	4	1	0.173730	2	0.050758
			2	0.106023	4	0.139127
			4	0.226242	6	0.159713
			8	0.494004	8	0.769835
				BIAS CORR		
				VAR COEFF		0.010502
				EFFICIENCY		99.23
13	8	3	1	0.220010	4	0.175849
			4	0.280787	6	0.159094
			8	0.492202	8	0.772489
				BIAS CORR		
				VAR COEFF		0.010524
				EFFICIENCY		99.61
17	8	2	2	0.369126	4	0.247756
			8	0.630874	8	0.858572
				BIAS CORR		
				VAR COEFF		0.010603
				EFFICIENCY		98.88
12	8	1	7	1.000000	8	1.045753
				BIAS CORR		
				VAR COEFF		0.011138
				EFFICIENCY		94.13
13	7	7	1	0.185471	1	0.021866
			2	0.074072	2	0.013494
			3	0.106824	3	0.107836
			4	0.033273	4	-0.019769
			5	0.111364	5	0.149256
			6	0.054442	6	0.051694
			7	0.434554	7	0.851151
				BIAS CORR		
				VAR COEFF		0.012078

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		53.24
13	7	5	1	0.185585	1	0.021932
			2	0.073778	2	0.013682
			3	0.121470	3	0.099161
			5	0.130703	5	0.137777
			6	0.050297	6	0.054169
			7	0.438168	7	0.849134
				BIAS CORR		
				0.740341		
				VAR COEFF		0.012078
				0.007605		
				EFFICIENCY		99.99
13	7	4	1	0.185941	1	0.026112
			2	0.072301	3	0.107899
			3	0.123177	5	0.138228
			5	0.154300	6	0.052899
			7	0.464280	7	0.350114
				BIAS CORR		
				0.740369		
				VAR COEFF		0.012079
				0.007609		
				EFFICIENCY		99.99
13	7	3	1	0.209227	1	0.025903
			3	0.169691	3	0.108648
			5	0.153956	5	0.163041
			7	0.467126	7	0.877606
				BIAS CORR		
				0.742339		
				VAR COEFF		0.012083
				0.007633		
				EFFICIENCY		99.95
13	7	2	1	0.211110	3	0.124742
			3	0.233782	5	0.162915
			7	0.555108	7	0.878522
				BIAS CORR		
				0.743130		
				VAR COEFF		0.012093
				0.007715		
				EFFICIENCY		99.88
13	7	1	1	0.303744	3	0.191126
			7	0.696256	7	0.972690
				BIAS CORR		
				0.758098		
				VAR COEFF		0.012184
				0.008145		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	93.34	99.12
13	7	1	7	1.000000	7	1.110864
				BIAS CORR	0.900200	
				VAR COEFF	0.010158	0.012535
				EFFICIENCY	74.85	96.35
13	6	2	1	0.194562	1	0.019043
			2	0.096723	2	0.054264
			3	0.068147	3	0.024032
			4	0.095907	4	0.107298
			5	0.070902	5	0.072166
			6	0.473759	6	0.958364
				BIAS CORR	0.707675	
				VAR COEFF	0.008102	0.014187
				EFFICIENCY	100.00	100.00
				EFF(M/N)	75.75	45.32
13	6	3	1	0.194542	1	0.019018
			2	0.097798	2	0.065253
			3	0.066302	4	0.123893
			4	0.129446	5	0.070916
			6	0.511911	6	0.959625
				BIAS CORR	0.707803	
				VAR COEFF	0.008110	0.014189
				EFFICIENCY	99.90	99.98
13	6	4	1	0.194776	2	0.079434
			2	0.123941	4	0.123999
			4	0.167549	5	0.070558
			6	0.513734	6	0.960162
				BIAS CORR	0.708524	
				VAR COEFF	0.008122	0.014193
				EFFICIENCY	99.75	99.96
13	6	5	1	0.227703	2	0.079546
			3	0.206358	4	0.156249
			6	0.565933	6	0.998154
				BIAS CORR	0.710364	
				VAR COEFF	0.008201	0.014201
				EFFICIENCY	98.79	99.90

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
13	6	2	1	0.298024	4	0.214005
			6	0.701976	6	1.001721
			BIAS CORR	0.721281		
			VAR COEFF	0.008491		0.014256
			EFFICIENCY	95.42		99.51
13	6	1	6	1.000000	e	1.184919
			BIAS CORR	0.843940		
			VAR COEFF	0.010335		0.014510
			EFFICIENCY	78.39		97.77
13	5	5	1	0.212012	1	0.027264
			2	0.094275	2	0.042543
			3	0.093466	3	0.078902
			4	0.082299	4	0.081560
			5	0.517949	5	1.087204
			BIAS CORR	0.671827		
			VAR COEFF	0.008751		0.017161
			EFF(M/N)	100.00		100.00
13	5	4	1	0.212428	2	0.062995
			2	0.094017	3	0.078848
			3	0.129392	4	0.081745
			5	0.564164	5	1.087506
			BIAS CORR	0.672088		
			VAR COEFF	0.008765		0.017159
			EFFICIENCY	99.84		99.95
13	5	3	1	0.242975	1	0.040596
			3	0.190037	3	0.141277
			5	0.566988	5	1.133658
			BIAS CORR	0.674107		
			EFFICIENCY	99.39		99.88
13	5	2	1	0.296181	3	0.166568
			5	0.703819	5	1.135749
			BIAS CORR	0.680919		
			VAR COEFF	0.009009		0.017205

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	97.13	99.74
13	5	1	5	1.000000	5	1.273050
				BIAS CORR	0.785515	
				VAR COEFF	0.010729	0.017388
				EFFICIENCY	81.56	98.69
13	4	4	1	0.232577	1	0.031580
			2	0.107312	2	0.061880
			3	0.096344	3	0.083603
			4	0.563767	4	1.241793
				BIAS CORR	0.630905	
				VAR COEFF	0.009649	0.021701
				EFFICIENCY	100.00	100.00
				EFF(M/N)	63.60	29.63
13	4	3	1	0.233113	2	0.085474
			2	0.145411	3	0.083542
			4	0.621476	4	1.242381
				BIAS CORR	0.631555	
				VAR COEFF	0.009675	0.021711
				EFFICIENCY	99.74	99.95
13	4	2	1	0.297696	2	0.118230
			4	0.702304	4	1.292138
				BIAS CORR	0.636095	
				VAR COEFF	0.009804	0.021731
				EFFICIENCY	98.43	99.86
13	4	1	4	1.000000	4	1.384174
				BIAS CORR	0.722453	
				VAR COEFF	0.011406	0.021853
				EFFICIENCY	84.60	99.30
13	3	3	1	0.264836	1	0.042470
			2	0.120291	2	0.078866
			3	0.614873	3	1.440211
				BIAS CORR	0.582313	
				VAR COEFF	0.010995	0.029484
				EFFICIENCY	100.00	100.00
				EFF(M/N)	55.82	21.81

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 3.50

N	M	L	I	LOCATION	I	SCALE
13	3	2	1	0.304311	2	0.110612
			3	0.695689	3	1.440994
			BIAS CORR	0.584325		
			VAR COEFF	0.011060		0.029503
			EFFICIENCY	99.41		99.93
13	3	1	3	1.000000	3	1.536580
			BIAS CORR	0.650796		
			VAR COEFF	0.012526		0.029575
			EFFICIENCY	87.77		99.69
13	2	2	1	0.319390	1	0.061961
			2	0.680610	2	1.730491
			BIAS CORR	0.520861		
			VAR COEFF	0.013315		0.045822
			EFFICIENCY	100.00		100.00
			EFF(M/N)	46.09		14.03
13	2	1	2	1.000000	2	1.778127
			BIAS CORR	0.562389		
			VAR COEFF	0.014508		0.045863
			EFFICIENCY	91.79		99.91
13	1	1	1	1.000000	1	2.312858
			BIAS CORR	0.432365		
			VAR COEFF	0.018721		0.100146
			EFFICIENCY	100.00		100.00
			EFF(M/N)	32.78		6.42



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE		
11	11	11	1	0.124321	1	0.011686		
			2	0.069273	2	0.023399		
			3	0.068372	3	0.034566		
			4	0.070236	4	0.045778		
			5	0.073905	5	0.057829		
			6	0.077906	6	0.070506		
			7	0.083587	7	0.085314		
			8	0.089689	8	0.102147		
			9	0.097929	9	0.123689		
			10	0.109090	10	0.153793		
			11	0.135692	11	0.231240		
	BIAS CORR		0.929482					
	VAR COEFF		0.005792		0.005858			
	EFFICIENCY		100.00		100.00			
	EFF(M/N)		100.00		100.00			
11	11	10	1	0.124392	2	0.032316		
			2	0.069947	3	0.034523		
			3	0.067222	4	0.045837		
			4	0.105205	5	0.057710		
			5	0.118047	6	0.070695		
			6	0.079575	7	0.085157		
			7	0.094876	8	0.102292		
			8	0.094406	9	0.123565		
			9	0.110641	10	0.153847		
			10	0.135690	11	0.231299		
				BIAS CORR		0.929727		
	VAR COEFF		0.005802		0.005859			
	EFFICIENCY		99.84		99.97			
11	11	9	1	0.124913	2	0.045704		
			2	0.068259	4	0.066297		
			3	0.100160	5	0.056790		
			4	0.149757	6	0.072454		
			5	0.127649	7	0.082873		
			6	0.081475	8	0.104363		
			7	0.104226	9	0.122634		
			8	0.107089	10	0.154259		
			9	0.136472	11	0.231384		
				BIAS CORR		0.930000		
				VAR COEFF		0.005811		0.005863

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	99.68	99.92
11	11	6	1	0.124628	2	0.045734
			2	0.096252	4	0.092567
			4	0.145520	6	0.103227
			6	0.158505	7	0.079832
			8	0.135536	8	0.108278
			9	0.091232	9	0.119952
			10	0.112398	10	0.155451
			11	0.135930	11	0.231431
			BIAS CORR	0.930458		
			VAR COEFF	0.005823		0.005868
			EFFICIENCY	99.48		99.83
11	11	7	1	0.124970	3	0.081812
			2	0.096293	5	0.116681
			4	0.146591	7	0.125076
			6	0.159399	8	0.095166
			8	0.187646	9	0.129133
			10	0.148883	10	0.152306
			11	0.136217	11	0.232275
			BIAS CORR	0.929269		
			VAR COEFF	0.005842		0.005877
			EFFICIENCY	99.15		99.68
11	11	6	1	0.147314	3	0.082090
			3	0.145801	5	0.118091
			5	0.153111	7	0.175343
			7	0.172718	9	0.172069
			9	0.211261	10	0.152201
			11	0.169795	11	0.232986
			BIAS CORR	0.928136		
			VAR COEFF	0.005887		0.005893
			EFFICIENCY	98.39		97.41
11	11	5	1	0.149403	4	0.127979
			3	0.178312	6	0.144752
			6	0.249043	8	0.216119
			9	0.251055	10	0.205000
			11	0.172187	11	0.233394
			BIAS CORR	0.928268		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF EFFICIENCY	0.005957 97.24	0.005929 98.80
11	11	4	1	0.170964	5	0.220068
			4	0.277141	8	0.253550
			8	0.349342	10	0.207313
			11	0.207553	11	0.236538
				BIAS CORR		
				0.926703		
				VAR COEFF		0.005994
				EFFICIENCY		97.73
11	11	2	1	0.215605	5	0.275474
			6	0.432029	9	0.356545
			10	0.352366	11	0.289170
				BIAS CORR		
				0.915893		
				VAR COEFF		0.006131
				EFFICIENCY		95.55
11	11	2	3	0.442936	8	0.533996
			9	0.557064	11	0.346435
				BIAS CORR		
				0.928907		
				VAR COEFF		0.006565
				EFFICIENCY		89.23
11	11	1	7	1.000000	9	0.911817
				BIAS CORR		
				0.969692		
				VAR COEFF		0.008399
				EFFICIENCY		69.84
11	13	13	1	0.128397	1	0.012827
			2	0.071700	2	0.026020
			3	0.069979	3	0.036878
			4	0.074010	4	0.053045
			5	0.073874	5	0.059184
			6	0.083008	6	0.082222
			7	0.084067	7	0.089799
			8	0.093444	8	0.113905
			9	0.099888	9	0.133864
			10	0.221634	10	0.367189
				BIAS CORR		
				0.904564		
				VAR COEFF		0.006449

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				100.00		100.00
				EFF(M/N)		90.83
11	10	9	1	0.128468	2	0.035808
			2	0.072373	3	0.036832
			3	0.068829	4	0.053112
			4	0.108964	5	0.059054
			6	0.123132	6	0.082433
			7	0.080056	7	0.089619
			8	0.098629	8	0.114067
			9	0.096366	9	0.133841
			10	0.223182	10	0.367308
				BIAS CORR		
				0.924808		
				VAR COEFF		0.006451
				0.005997		99.97
				EFFICIENCY		
				99.85		
11	10	8	1	0.128521	2	0.050091
			2	0.073570	4	0.074944
			3	0.065867	5	0.052072
			4	0.111858	6	0.084325
			6	0.163382	7	0.087194
			8	0.137686	8	0.116291
			9	0.094886	9	0.132744
			10	0.224230	10	0.367830
				BIAS CORR		
				0.904641		
				VAR COEFF		0.006455
				0.006003		99.91
				EFFICIENCY		
				99.68		
11	10	7	1	0.128716	2	0.050122
			2	0.099313	4	0.101809
			4	0.150231	6	0.115785
			6	0.163853	7	0.084075
			8	0.139576	8	0.120287
			9	0.093145	9	0.130094
			10	0.225167	10	0.369095
				BIAS CORR		
				0.905516		
				VAR COEFF		0.006460
				0.006015		99.83
				EFFICIENCY		
				99.48		
11	10	6	1	0.129074	2	0.049954
			2	0.099361	4	0.102964

TABLE 11  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE			
			4	0.151335	6	0.158037			
			6	0.154777	8	0.161260			
			8	0.157790	9	0.128599			
			10	0.262667	10	0.370414			
			BIAS CORR	0.904248					
			VAR COEFF	0.006035		0.006471			
			EFFICIENCY	99.15		99.65			
11	10	2	1	0.172981	4	0.159367			
			3	0.179609	6	0.158243			
			6	0.209319	8	0.167367			
			8	0.192476	9	0.128348			
			10	0.265614	10	0.371890			
			BIAS CORR	0.906839					
			VAR COEFF	0.006065		0.006471			
EFFICIENCY	99.34		99.32						
11	10	4	1	0.173319	4	0.160579			
			6	0.200920	6	0.159099			
			8	0.277241	8	0.236197			
			10	0.268919	10	0.424797			
			BIAS CORR	0.909683					
			VAR COEFF	0.006184		0.006531			
			EFFICIENCY	96.76		99.74			
11	10	3	1	0.215605	4	0.214417			
			6	0.432079	8	0.315465			
			10	0.352366	10	0.424679			
			BIAS CORR	0.915893					
			VAR COEFF	0.006497		0.006614			
			EFFICIENCY	97.74		97.71			
			11	10	2	3	0.442936	6	0.410110
4	0.597064	10				0.931909			
BIAS CORR	0.928907								
VAR COEFF	0.007162					0.006854			
EFFICIENCY	83.54					94.09			
11	10	1				7	1.000000	9	0.11817
						BIAS CORR	0.967697		
			VAR COEFF	0.009266		0.008371			

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				64.57		76.87
				EFFICIENCY		
11	9	4	1	0.133845	1	0.014452
			2	0.073715	2	0.027249
			3	0.076428	3	0.047318
			4	0.069070	4	0.044852
			5	0.088015	5	0.085488
			6	0.075585	6	0.072284
			7	0.094167	7	0.111657
			8	0.093151	8	0.119410
			9	0.296020	9	0.488993
				BIAS CORR		
				0.878209		
				VAR COEFF		0.007140
				0.006233		
				EFFICIENCY		100.00
				100.00		
				LEF (M/1)		81.58
				92.94		
11	9	4	1	0.134185	2	0.038242
			2	0.072905	3	0.047270
			3	0.078685	4	0.044924
			4	0.066404	5	0.081351
			5	0.126061	6	0.072519
			7	0.133468	7	0.111471
			8	0.089937	8	0.115545
			9	0.298351	9	0.409099
				BIAS CORR		
				0.878278		
				VAR COEFF		0.007143
				0.006242		
				EFFICIENCY		99.97
				99.86		
11	9	7	1	0.134414	2	0.038114
			2	0.072730	3	0.066837
			3	0.107467	4	0.110645
			5	0.162040	6	0.070452
			7	0.136450	7	0.114847
			8	0.085131	8	0.116240
			9	0.301018	9	0.440940
				BIAS CORR		
				0.878730		
				VAR COEFF		0.007197
				0.006251		
				EFFICIENCY		99.71
				99.72		
11	9	7	1	0.134815	2	0.037414
			2	0.071923	3	0.067195

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
			3	0.108580	5	0.144709
			5	0.163393	7	0.151334
			7	0.181932	8	0.113439
			9	0.339356	9	0.493159
				BIAS CORR		
				VAR COEFF		0.007194
				EFFICIENCY		99.80
11	9		1	0.157235	3	0.099200
			3	0.155442	5	0.144729
			5	0.163817	7	0.152407
			7	0.183039	8	0.112318
			9	0.340466	9	0.494176
				BIAS CORR		
				VAR COEFF		0.007202
				EFFICIENCY		99.69
11	9	4	1	0.159637	3	0.099468
			3	0.190865	5	0.146465
			6	0.254450	7	0.211912
			9	0.395047	9	0.545540
				BIAS CORR		
				VAR COEFF		0.007225
				EFFICIENCY		99.38
11	9	3	1	0.201273	5	0.222576
			5	0.365226	7	0.212945
			9	0.433501	9	0.550563
				BIAS CORR		
				VAR COEFF		0.007289
				EFFICIENCY		98.50
11	9	2	3	0.442936	5	0.333096
			9	0.557064	9	0.653009
				BIAS CORR		
				VAR COEFF		0.007440
				EFFICIENCY		96.92
11	9	1	7	1.000000	9	0.911017
				BIAS CORR		
				VAR COEFF		0.009394

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	67.26	85.61
11	8	8	1	0.140233	1	0.015654
			2	0.090143	2	0.035554
			3	0.070550	3	0.036119
			4	0.091221	4	0.083734
			5	0.069448	5	0.055636
			6	0.096775	6	0.112393
			7	0.088509	7	0.107522
			8	0.363121	8	0.605463
			BIAS CORR	0.850157		
			VAR COEFF	0.006548		0.008103
			EFFICIENCY	100.00		100.00
			EFF(M/N)	88.47		72.30
11	8	7	1	0.140292	2	0.047506
			2	0.080747	3	0.036065
			3	0.069549	4	0.083822
			4	0.124001	5	0.055481
			6	0.134421	6	0.112656
			7	0.094032	7	0.107321
			8	0.366158	8	0.605776
			BIAS CORR	0.850407		
			VAR COEFF	0.006556		0.008175
			EFFICIENCY	99.88		99.97
11	6	7	1	0.140363	2	0.061495
			2	0.092015	4	0.105158
			3	0.066450	5	0.054591
			4	0.127052	6	0.114449
			6	0.177079	7	0.104971
			8	0.407041	8	0.607376
			BIAS CORR	0.850153		
			VAR COEFF	0.006567		0.009107
			EFFICIENCY	99.70		99.92
11	6	8	1	0.140563	2	0.061531
			2	0.107997	4	0.130291
			4	0.169757	6	0.143969
			6	0.177349	7	0.107118
			8	0.408140	8	0.609753



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.851011	
				VAR COEFF	0.00657 <sup>a</sup>	0.008114
				EFFICIENCY	99.52	99.86
11	8	4	1	0.167094	2	0.061354
			3	0.195020	4	0.131832
			6	0.227343	6	0.195339
			8	0.410543	8	0.659437
				BIAS CORR	0.853265	
				VAR COEFF	0.006642	0.008130
				EFFICIENCY	98.58	99.66
11	8	3	1	0.188999	4	0.176671
			4	0.306477	6	0.195733
			8	0.504524	8	0.662248
				BIAS CORR	0.855640	
				VAR COEFF	0.006754	0.008163
				EFFICIENCY	96.95	99.26
11	8	2	2	0.359562	4	0.267776
			8	0.640438	8	0.765615
				BIAS CORR	0.886173	
				VAR COEFF	0.007302	0.008287
				EFFICIENCY	89.67	97.77
11	8	1	7	1.000000	8	0.970731
				BIAS CORR	0.969692	
				VAR COEFF	0.009266	0.008906
				EFFICIENCY	70.66	90.98
11	7	7	1	0.149408	1	0.019133
			2	0.079959	2	0.031683
			3	0.089864	3	0.068565
			4	0.071207	4	0.049995
			5	0.098126	5	0.107983
			6	0.086565	6	0.099971
			7	0.424870	7	0.720575
				BIAS CORR	0.819909	
				VAR COEFF	0.006946	0.009301
				EFFICIENCY	100.00	100.00
				EFF(M/N)	83.40	62.9 <sup>a</sup>

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE			
11	7	6	1	0.149668	2	0.046291			
			2	0.079801	3	0.068519			
			3	0.120949	4	0.050080			
			5	0.138135	5	0.107827			
			6	0.083608	6	0.100285			
			7	0.427838	7	0.720716			
			BIAS CORR	0.020341					
		VAR COEFF	0.006956		0.009375				
		EFFICIENCY	99.85		99.96				
		11	7	5	1	0.150061	2	0.046145	
2	0.078965				3	0.090306			
3	0.122164				5	0.135896			
5	0.178612				6	0.098173			
7	0.470199				7	0.722753			
BIAS CORR	0.820257								
VAR COEFF	0.006967					0.009310			
EFFICIENCY	99.70				99.90				
11	7			4	1	0.174738	3	0.129075	
					3	0.173680	5	0.136729	
		5	0.179132		6	0.096547			
		7	0.472450		7	0.724915			
		BIAS CORR	0.822420						
		VAR COEFF	0.006995			0.009323			
		EFFICIENCY	99.29			99.77			
		11	7	3	1	0.177301	3	0.129649	
					3	0.249045	5	0.185436	
					7	0.573654	7	0.774081	
BIAS CORR	0.823292								
VAR COEFF	0.007107					0.009337			
EFFICIENCY	97.73					99.61			
11	7				2	2	0.338779	4	0.241799
				7		0.661221	7	0.834491	
				BIAS CORR		0.854517			
				VAR COEFF		0.007539		0.009440	
		EFFICIENCY	92.13			98.53			
		11	7	1		7	1.000000	7	1.031256

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.969692	
				VAR COEFF	0.009266	0.009855
				EFFICIENCY	74.96	94.38
11	6	2	1	0.159460	1	0.020596
			2	0.091558	2	0.047717
			3	0.081046	3	0.051804
			4	0.096409	4	0.095625
			5	0.089127	5	0.096605
			6	0.482400	6	0.839159
				BIAS CORR	0.786843	
				VAR COEFF	0.007460	0.010917
				EFFICIENCY	100.00	100.00
				EFF(M/N)	77.65	53.66
11	6	3	1	0.159609	2	0.063438
			2	0.092304	3	0.051751
			3	0.079987	4	0.095726
			4	0.138352	5	0.096435
			6	0.529748	6	0.839653
				BIAS CORR	0.786925	
				VAR COEFF	0.007473	0.010922
				EFFICIENCY	99.82	99.96
11	6	4	1	0.159912	2	0.083539
			2	0.123624	4	0.126235
			4	0.185004	5	0.095369
			6	0.531459	6	0.841108
				BIAS CORR	0.787751	
				VAR COEFF	0.007491	0.010930
				EFFICIENCY	99.59	99.89
11	6	3	1	0.189870	2	0.083669
			3	0.222220	4	0.170347
			6	0.587910	6	0.891996
				BIAS CORR	0.789797	
				VAR COEFF	0.007565	0.010945
				EFFICIENCY	98.61	99.75
11	6	2	1	0.263501	4	0.231914
			6	0.736499	6	0.846589

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.802331	
				VAR COEFF	0.007902	0.011006
				EFFICIENCY	94.41	99.19
11	6	1	6	1.000000	6	1.097312
				BIAS CORR	0.911318	
				VAR COEFF	0.009386	0.011302
				EFFICIENCY	79.48	96.60
11	5		1	0.174836	1	0.026353
			2	0.095025	2	0.048237
			3	0.097535	3	0.080160
			4	0.094499	4	0.094996
			5	0.538104	5	0.967002
				BIAS CORR	0.749972	
				VAR COEFF	0.008145	0.013214
				EFFICIENCY	100.00	100.00
				EFF (M/N)	71.12	44.33
11	5		1	0.175267	2	0.068366
			2	0.094921	3	0.080113
			3	0.138801	4	0.095126
			5	0.591011	5	0.967436
				BIAS CORR	0.750259	
				VAR COEFF	0.008163	0.013222
				EFFICIENCY	99.78	99.94
11	5	3	1	0.205104	2	0.099526
			3	0.200882	4	0.142398
			5	0.594013	5	0.968126
				BIAS CORR	0.752459	
				VAR COEFF	0.008204	0.013239
				EFFICIENCY	99.28	99.81
11	5	2	1	0.259213	3	0.178897
			5	0.740787	5	1.022831
				BIAS CORR	0.760252	
				VAR COEFF	0.008430	0.013267
				EFFICIENCY	96.61	99.60
11	5	1	5	1.000000	5	1.173542

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WELBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.852122	
				VAR COEFF	0.009785	0.013476
				EFFICIENCY	83.24	98.05
11	4	4	1	0.194632	1	0.031646
			2	0.107998	2	0.064644
			3	0.104224	3	0.091670
			4	0.593145	4	1.112336
				BIAS CORR	0.707743	
				VAR COEFF	0.009106	0.016730
				EFFICIENCY	100.00	100.00
				EFF(M/N)	63.61	35.01
11	4	3	1	0.195177	2	0.088828
			2	0.148914	3	0.091620
			4	0.655909	4	1.113042
				BIAS CORR	0.708487	
				VAR COEFF	0.009136	0.016742
				EFFICIENCY	99.68	99.93
11	4	2	1	0.259208	2	0.124483
			4	0.740792	4	1.167939
				BIAS CORR	0.713562	
				VAR COEFF	0.009272	0.016765
				EFFICIENCY	98.21	99.80
11	4	1	4	1.000000	4	1.267281
				BIAS CORR	0.789091	
				VAR COEFF	0.010524	0.016901
				EFFICIENCY	86.53	98.99
11	3	3	1	0.225638	1	0.042323
			2	0.123282	2	0.083372
			3	0.651080	3	1.290538
				BIAS CORR	0.657324	
				VAR COEFF	0.010573	0.022780
				EFFICIENCY	100.00	100.00
				EFF(M/N)	54.79	25.71
11	3	2	1	0.264783	2	0.115737
			3	0.735217	3	1.291490

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.659572	
				VAR COEFF	0.010642	0.022801
				EFFICIENCY	99.35	99.91
11	3	1	3	1.000000	3	1.393016
				BIAS CORR	0.717867	
				VAR COEFF	0.011791	0.022880
				EFFICIENCY	89.67	99.57
11	2	-	1	0.279356	1	0.061910
			2	0.720644	2	1.539069
				BIAS CORR	0.592843	
				VAR COEFF	0.013169	0.035562
				EFFICIENCY	100.00	100.00
				EFF(M/N)	43.99	16.47
11	2	1	2	1.000000	2	1.588000
				BIAS CORR	0.629723	
				VAR COEFF	0.014120	0.035606
				EFFICIENCY	93.27	99.88
11	1	1	1	1.000000	1	2.009218
				BIAS CORR	0.497706	
				VAR COEFF	0.015496	0.078705
				EFFICIENCY	100.00	100.00
				EFF(M/N)	29.71	7.44
12	12	12	1	0.117717	1	0.010034
			2	0.064181	2	0.020041
			3	0.062659	3	0.029337
			4	0.063645	4	0.039007
			5	0.066577	5	0.048365
			6	0.069364	6	0.059399
			7	0.074035	7	0.070172
			8	0.078277	8	0.083820
			9	0.084471	9	0.098580
			10	0.091492	10	0.118218
			11	0.101728	11	0.145351
			12	0.125855	12	0.215996
				BIAS CORR	0.929547	
				VAR COEFF	0.005307	0.005357

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 12)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		100.00
12	12	11	1	0.118177	2	0.027753
			2	0.062164	3	0.029229
			3	0.068301	4	0.039197
			4	0.055319	5	0.048753
			5	0.104572	6	0.059829
			7	0.114377	7	0.069710
			8	0.065693	8	0.084261
			9	0.098491	9	0.098307
			10	0.082139	10	0.118387
			11	0.105282	11	0.145335
			12	0.125485	12	0.216035
				BIAS CORR		
				VAR COEFF		0.005358
				EFFICIENCY		99.89
12	12	10	1	0.117395	2	0.038901
			2	0.067881	4	0.057921
			3	0.052607	5	0.044754
			4	0.102623	6	0.064478
			6	0.139030	7	0.063558
			8	0.128708	8	0.090939
			9	0.061696	9	0.093179
			10	0.106688	10	0.121001
			11	0.096463	11	0.144591
			12	0.126908	12	0.216222
				BIAS CORR		
				VAR COEFF		0.005360
				EFFICIENCY		99.80
12	12	9	1	0.118690	2	0.038751
			2	0.059912	4	0.078739
			3	0.093685	6	0.091007
			5	0.136820	7	0.055739
			7	0.147648	8	0.101887
			9	0.135565	9	0.082551
			10	0.074156	10	0.127607
			11	0.108271	11	0.142508
			12	0.125254	12	0.216523

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.929776	
				VAR COEFF	0.005322	0.005562
				EFFICIENCY	99.72	99.89
12	12	0	1	0.117454	2	0.038333
			2	0.087711	4	0.080535
			4	0.134706	6	0.117912
			6	0.140402	8	0.131441
			8	0.162593	9	0.077533
			10	0.134381	10	0.131962
			11	0.095389	11	0.140739
			12	0.127361	12	0.217092
				BIAS CORR	0.930018	
				VAR COEFF	0.005329	0.005367
				EFFICIENCY	99.58	99.92
12	12	7	1	0.137292	3	0.069695
			3	0.137401	5	0.100586
			5	0.139216	7	0.141609
			7	0.149267	9	0.149693
			9	0.178430	10	0.103884
			11	0.137681	11	0.151155
			12	0.125712	12	0.215795
				BIAS CORR	0.930670	
				VAR COEFF	0.005349	0.005372
				EFFICIENCY	99.23	99.70
12	12	0	1	0.134757	4	0.109948
			4	0.181551	6	0.119443
			6	0.143141	8	0.172751
			8	0.164991	10	0.167145
			10	0.198538	11	0.140299
			12	0.157072	12	0.218098
				BIAS CORR	0.931669	
				VAR COEFF	0.005406	0.005388
				EFFICIENCY	98.16	99.42
12	12		1	0.156208	5	0.157271
			4	0.246655	7	0.141751
			8	0.234213	9	0.211291
			10	0.194013	11	0.193469



TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

L	M	L	J	LOCATION	J	SCALE
			12	0.190710	12	0.717553
			BIAS CORR	0.737407		
			VAN COEFF	0.005464		0.005464
			EFFICIENCY	97.12		90.75
12	12	5	1	0.137495	5	0.726105
			5	0.170007	9	0.779467
			9	0.179009	11	0.194552
			12	0.164574	12	0.717079
			BIAS CORR	0.730972		
			VAN COEFF	0.005476		0.005465
			EFFICIENCY	95.04		91.74
12	12	7	7	0.174954	6	0.100474
			9	0.151745	10	0.101036
			11	0.101700	12	0.764447
			BIAS CORR	0.937401		
			VAN COEFF	0.005451		0.005467
			EFFICIENCY	87.15		95.54
12	12	9	9	0.100160	8	0.004916
			11	0.010612	12	0.150019
			BIAS CORR	0.941761		
			VAN COEFF	0.005461		0.005471
			EFFICIENCY	85.04		89.77
12	12	11	11	0.010000	10	0.005011
			BIAS CORR	0.947717		
			VAN COEFF	0.005462		0.005479
			EFFICIENCY	82.03		87.70
12	11	11	1	0.171745	1	0.010177
			7	0.065401	7	0.020911
			8	0.064176	8	0.010111
			9	0.01507	9	0.01507
			10	0.01517	10	0.064074
			11	0.01545	11	0.061779
			12	0.015196	12	0.064174
			13	0.014004	13	0.060957
			14	0.010201	14	0.111011
			15	0.010179	15	0.129741

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION		SCALE		
11	11	1	11	0.296796	11	0.296796		
			BIAS CORR	0.496796				
			VAN COEFF	0.008464		0.008464		
			EFFICIENCY	100.00		100.00		
			EFFICIENCY	97.13		97.67		
17	11	1	7	0.171679	7	0.079973		
			8	0.063607	8	0.039170		
			9	0.071817	9	0.035861		
			10	0.053878	10	0.032774		
			11	0.104780	11	0.051750		
			12	0.170337	12	0.080480		
			13	0.063704	13	0.031663		
			14	0.103307	14	0.041379		
			15	0.087999	15	0.037909		
			16	0.209759	16	0.296796		
			BIAS CORR	0.496496				
			VAN COEFF	0.008664		0.008664		
EFFICIENCY	99.71		99.99					
17	11	4	7	0.171901	7	0.079981		
			8	0.064287	8	0.039187		
			9	0.072087	9	0.035867		
			10	0.117777	10	0.054967		
			11	0.178085	11	0.079979		
			12	0.064789	12	0.031887		
			13	0.112882	13	0.042112		
			14	0.074968	14	0.037909		
			15	0.211864	15	0.296796		
			BIAS CORR	0.496744				
			VAN COEFF	0.008474		0.008474		
			EFFICIENCY	99.87		99.99		
17	11	6	7	0.172161	7	0.077714		
			8	0.064181	8	0.037711		
			9	0.076171	9	0.037750		
			10	0.151079	10	0.077891		
			11	0.187385	11	0.064912		
			12	0.184071	12	0.069179		
			13	0.075806	13	0.037778		
			14	0.217887	14	0.297711		

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF  $\lambda$   
MULTIPL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 15)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAN COEFF		0.005493
				EFFICIENCY		97.90
12	11	7	1	0.177520	3	0.018497
			2	0.060785	6	0.107917
			3	0.076270	7	0.176940
			6	0.141946	8	0.061470
			7	0.157725	9	0.137774
			9	0.191905	10	0.117654
			11	0.247231	11	0.348177
				BIAS CORR		
				VAN COEFF		0.005487
				EFFICIENCY		97.87
12	11	6	1	0.151781	3	0.075617
			2	0.115946	6	0.115793
			6	0.163567	7	0.156700
			7	0.154071	9	0.147377
			9	0.163319	10	0.111377
			11	0.247476	11	0.347876
				BIAS CORR		
				VAN COEFF		0.005481
				EFFICIENCY		97.75
12	11	5	1	0.147576	4	0.175576
			2	0.178700	6	0.178817
			7	0.173591	6	0.180088
			9	0.191777	10	0.181667
			11	0.244304	11	0.349136
				BIAS CORR		
				VAN COEFF		0.005483
				EFFICIENCY		97.79
12	11	4	1	0.141847	5	0.171485
			6	0.249156	7	0.198847
			8	0.241386	9	0.228549
			11	0.241617	11	0.344587
				BIAS CORR		
				VAN COEFF		0.005471
				EFFICIENCY		96.71

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	K	L	J	LOCATION	J	SCALE
12	11	2	2	0.269594	5	0.247514
			7	0.399745	9	0.303623
			11	0.330700	11	0.400113
			BIAS CORR	0.936983		
			VAR COEFF	0.005953		0.005953
EFFICIENCY	91.79		91.66			
12	11	2	4	0.481368	7	0.431754
			10	0.318637	11	0.477455
			BIAS CORR	0.747293		
			VAR COEFF	0.004863		0.004863
			EFFICIENCY	83.29		83.79
12	11	1	4	1.000000	10	0.894413
			BIAS CORR	0.772717		
			VAR COEFF	0.004956		0.004956
			EFFICIENCY	83.87		86.15
			12	13	1	1
2	0.070687	2				0.071867
3	0.056977	3				0.071607
4	0.045077	4				0.074436
5	0.035916	5				0.075714
6	0.160861	6				0.117537
7	0.056758	7				0.055257
8	0.079371	8				0.177764
9	0.078974	9				0.097481
10	0.279831	10				0.463007
BIAS CORR	0.887884					
VAR COEFF	0.008643					0.008643
EFFICIENCY	100.00					100.00
EFFICIENCY	93.68		81.75			
12	13	1	1	0.175797	1	0.111541
			2	0.071784	2	0.070151
			3	0.056160	3	0.070431
			4	0.047070	4	0.081575
			5	0.177464	5	0.175881
			7	0.047485	7	0.047485
			8	0.110767	8	0.131371

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION		SCALE				
11	10	5	1	0.066901	9	0.094231				
			2	0.285044	10	0.465305				
			BIAS CORR							
			VAR COEFF					0.006439		
			EFFICIENCY				99.95	100.00		
			12	10	5	1	0.175078	1	0.011457	
						2	0.071157	2	0.036071	
						3	0.051576	4	0.075733	
						4	0.117156	6	0.177756	
						5	0.171077	7	0.238796	
6	0.136957	8				0.135467				
7	0.061903	9				0.091177				
10	0.287903	10				0.466660				
BIAS CORR										
VAR COEFF							0.006439			
EFFICIENCY				99.90	99.90					
12	10	7	1	0.175091	7	0.066927				
			2	0.0711607	8	0.075705				
			3	0.051584	9	0.177759				
			4	0.116631	7	0.036152				
			5	0.172801	8	0.135413				
			6	0.147206	9	0.097951				
			10	0.287904	10	0.466660				
			BIAS CORR							
			VAR COEFF					0.006439		
			EFFICIENCY				99.79	99.79		
12	11	5	1	0.175134	7	0.066919				
			2	0.071181	8	0.075707				
			3	0.051603	9	0.177759				
			4	0.116657	8	0.135410				
			5	0.172803	9	0.097951				
			10	0.287924	10	0.466660				
			BIAS CORR							
			VAR COEFF					0.006439		
			EFFICIENCY				99.79	99.79		
			12	11	5	1	0.175164	7	0.066916	
6	0.172864	8				0.097976				

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION		SCALE				
			6	0.192805	6	0.148542				
			8	0.173040	8	0.201853				
			10	0.217797	10	0.908101				
			BIAS CORR		0.888294					
			VAR COEFF EFFICIENCY		0.005737	98.84	0.006456	99.74		
12	11	1	1	0.145533	4	0.131075				
			4	0.262096	6	0.148350				
			8	0.292824	8	0.207914				
			12	0.219827	10	0.909303				
			BIAS CORR		0.888617					
VAR COEFF EFFICIENCY		0.003797	97.72	0.016471	99.39					
12	10	1	1	0.223089	4	0.177616				
			6	0.290494	6	0.279860				
			10	0.404417	10	0.912410				
			BIAS CORR		0.876457					
			VAR COEFF EFFICIENCY		0.005490	94.58	0.006733	98.36		
12	9	1	4	0.401369	4	0.211461				
			10	0.418637	10	0.411461				
			BIAS CORR		0.947287					
			VAR COEFF EFFICIENCY		0.025843	86.32	0.004476	96.45		
			12	8	1	8	1.000000	10	0.898815	
BIAS CORR		0.922117								
VAR COEFF EFFICIENCY		0.008954				66.71	0.007479	88.07		
12	7	1				1	0.131724	1	0.014429	
						2	0.086637	2	0.018362	
			3	0.086767	3	0.020519				
			4	0.019664	4	0.008718				
			5	0.120193	5	0.144005				
			6	0.014635	6	0.008492				
			7	0.117149	7	0.144768				
			8	0.061937	8	0.071628				

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

K	M	L	I	LOCATION	J	SCALE
11	9	1	1	0.340317	9	0.580133
			BIAS CORR	0.057731		
			VAR COEFF	0.005913		0.007166
			EFFICIENCY	100.00		100.00
			EFF(M/N)	77.70		74.70
12	9	1	1	0.111924	1	0.014456
			2	0.065680	2	0.019174
			3	0.037259	3	0.020950
			4	0.02197	4	-0.007347
			5	0.130122	5	0.147111
			7	0.132032	7	0.140196
			8	0.054073	8	0.070613
			9	0.082101		
			BIAS CORR	0.057713		
			VAR COEFF	0.005914		0.007166
			EFFICIENCY	77.77		100.00
12	7	1	1	0.137277	1	0.145377
			2	0.065796	2	0.070312
			3	0.108320	3	0.044073
			4	0.156097	4	0.142131
			7	0.136717	7	0.146075
			8	0.047996	8	0.071107
			9	0.046781	9	0.079934
			BIAS CORR	0.050250		
			VAR COEFF	0.005716		0.007166
			EFFICIENCY	77.76		100.00
12	4	1	1	0.137299	1	0.119701
			2	0.063628	2	0.070711
			3	0.104447	3	0.142093
			4	0.157066	4	0.144077
			7	0.141175	7	0.14636
			8	0.043197	8	0.071636
			9	0.043097	9	0.080478
			BIAS CORR	0.050097		
			VAR COEFF	0.005717		0.007166
			EFFICIENCY	77.47		74.70
12	4	1	1	0.107008	3	0.084916
			3	0.146144	3	0.142782

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
			5	0.157969	7	0.148793
			7	0.162501	8	0.070434
			9	0.381377	9	0.081387
				BIAS CORR		
				VAR COEFF		0.507171
				EFFICIENCY		99.90
12	9	"	1	0.194091	3	0.089595
			3	0.146440	9	0.144713
			5	0.238743	7	0.183471
			9	0.461290	4	0.514916
				BIAS CORR		
				VAR COEFF		0.007178
				EFFICIENCY		99.90
12	9	"	1	0.191490	5	0.214343
			5	0.338410	7	0.183049
			9	0.470100	4	0.620046
				BIAS CORR		
				VAR COEFF		0.007226
				EFFICIENCY		99.14
12	9	"	3	0.408120	5	0.304251
			9	0.591880	4	0.712764
				BIAS CORR		
				VAR COEFF		0.007315
				EFFICIENCY		97.93
12	9	1	9	1.000000	4	0.933101
				BIAS CORR		
				VAR COEFF		0.008013
				EFFICIENCY		99.91
12	8	"	1	0.137059	1	0.013435
			2	0.087087	2	0.042084
			3	0.050461	3	0.004376
			4	0.119437	4	0.124018
			5	0.031735	5	-0.004777
			6	0.115103	6	0.145479
			7	0.063793	7	0.066778
			8	0.404971	8	0.684316



TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.830619	
				VAR COEFF	0.006223	0.008087
				EFFICIENCY	100.00	100.00
				EFF(M/N)	85.28	66.24
12	6	7	1	0.136990	1	0.013447
			2	0.002622	2	0.043775
			3	0.042272	4	0.132334
			4	0.130948	5	-0.007006
			6	0.132347	6	0.145990
			7	0.052196	7	0.062993
			8	0.408627	8	0.684025
				BIAS CORR	0.030851	
				VAR COEFF	0.006224	0.008087
				EFFICIENCY	99.98	100.00
12	6	6	1	0.136022	1	0.013469
			2	0.004484	2	0.043761
			3	0.044098	4	0.129116
			4	0.132723	6	0.141922
			6	0.160769	7	0.067321
			8	0.438104	8	0.684974
				BIAS CORR	0.010817	
				VAR COEFF	0.006225	0.008087
				EFFICIENCY	99.91	100.00
12	6	5	1	0.136091	2	0.024066
			2	0.101591	4	0.129029
			4	0.161354	6	0.142296
			6	0.160737	7	0.068514
			8	0.439465	8	0.684498
				BIAS CORR	0.021489	
				VAR COEFF	0.006234	0.008089
				EFFICIENCY	99.93	99.97
12	6	4	1	0.171423	2	0.053611
			4	0.214887	4	0.131064
			6	0.161283	6	0.124265
			8	0.444608	8	0.712640
				BIAS CORR	0.036256	
				VAR COEFF	0.006293	0.008099

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	98.89	99.90
12	5		1	0.181289	4	0.170694
			4	0.288627	6	0.174079
			8	0.530084	8	0.720351
				BIAS CORR	0.836230	
				VAR COEFF	0.006366	0.008110
				EFFICIENCY	97.75	99.61
12	6		2	0.337391	4	0.249165
			5	0.667609	6	0.814699
				BIAS CORR	0.865120	
				VAR COEFF	0.006830	0.007203
				EFFICIENCY	91.11	90.58
12	8	1	8	1.000000	8	1.000000
				BIAS CORR	0.997217	
				VAR COEFF	0.008556	0.008693
				EFFICIENCY	77.73	91.66
12	7	7	1	0.147671	1	0.019197
			2	0.072435	2	0.071371
			3	0.045314	3	0.086191
			4	0.047405	4	0.011967
			5	0.108267	5	0.128458
			6	0.070068	6	0.073651
			7	0.455339	7	0.788497
				BIAS CORR	0.901148	
				VAR COEFF	0.007613	0.009297
				EFFICIENCY	100.00	100.00
				EFF (M/4)	00.29	97.65
12	7		1	0.147876	1	0.019193
			2	0.072137	2	0.071286
			3	0.119153	3	0.091409
			4	0.135484	4	0.135164
			5	0.069985	5	0.072902
			6	0.499316	6	0.788441
				BIAS CORR	0.801947	
				VAR COEFF	0.008617	0.009293
				EFFICIENCY	99.44	100.00

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE			
12	7	1	1	0.148199	1	0.025564			
			2	0.070729	3	0.105651			
			3	0.120878	5	0.135968			
			5	0.166985	6	0.070984			
			7	0.493205	7	0.786560			
			BIAS CORR		0.001554				
			VAR COEFF		0.006623		0.009295		
EFFICIENCY		99.85		99.98					
12	7	4	1	0.170098	1	0.029360			
			3	0.167144	3	0.106456			
			5	0.167042	5	0.169533			
			7	0.495717	7	0.821450			
			BIAS CORR		0.003567				
			VAR COEFF		0.006644		0.007171		
			EFFICIENCY		99.53		99.90		
12	7	1	1	0.172024	3	0.172956			
			3	0.235937	5	0.169456			
			7	0.592933	7	0.824433			
			BIAS CORR		0.004537				
			VAR COEFF		0.006732		0.007113		
			EFFICIENCY		98.24		99.91		
			12	7	2	2	0.321721	3	0.191177
7	0.678279	7				0.923117			
BIAS CORR		0.014194							
VAR COEFF		0.007125					0.009430		
EFFICIENCY		97.91					98.86		
12	7	1				7	1.000000	7	1.063921
						BIAS CORR		0.930199	
			VAR COEFF		0.000956		0.007272		
			EFFICIENCY		77.29		95.58		
			12	6	1	1	0.196644	1	0.018341
						2	0.071082	2	0.042511
						3	0.070780	3	0.026438
4	0.098720	4				0.101893			
5	0.079072	5				0.080500			

TABLE 11

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

L	M	L	J	LOCATION	J	SCALE			
11	6	1	6	0.504183	6	0.893165			
			BIAS CORR	0.769000					
			VAR COEFF	0.007113		0.010914			
			EFFICIENCY	100.00		100.00			
			EFF(M/6)	74.61		49.09			
			1	0.156691	1	0.018312			
			2	0.492110	2	0.063720			
3	0.069036	4	0.123400						
4	0.135420	5	0.079185						
5	0.946787	6	0.994656						
		BIAS CORR	0.769136						
		VAR COEFF	0.007123		0.010917				
		EFFICIENCY	99.07		99.97				
12	6	1	1	0.156895	2	0.077741			
			2	0.118914	4	0.123499			
			4	0.175619	5	0.078401			
			6	0.948612	6	0.995100			
			BIAS CORR	0.769892					
			VAR COEFF	0.007135		0.010921			
			EFFICIENCY	99.70		99.94			
12	6	1	1	0.156801	2	0.077859			
			2	0.209710	4	0.123503			
			4	0.694184	6	0.937723			
			BIAS CORR	0.771877					
			VAR COEFF	0.007206		0.010930			
			EFFICIENCY	98.72		99.89			
			12	6	1	1	0.253812	4	0.217269
4	0.746108	6				0.941674			
BIAS CORR	0.781994								
VAR COEFF	0.007401					0.010960			
EFFICIENCY	95.09					97.40			
12	6	1				6	1.000000	6	1.125697
						BIAS CORR	0.884480		
			VAR COEFF	0.008775		0.011217			
			EFFICIENCY	81.06		97.85			

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	J	SCALE			
12	5	1	1	0.172717	1	0.025178			
			2	0.090591	2	0.042728			
			3	0.094994	3	0.078227			
			4	0.087769	4	0.084926			
			5	0.553929	5	1.014826			
			BIAS CORR	0.733160					
			VAR COEFF	0.007775		0.013212			
			EFFICIENCY	100.00		100.00			
			EFF(M/N)	68.26		40.55			
			12	5	4	1	0.173108	2	0.062039
2	0.090343	3				0.078172			
3	0.133032	4				0.085102			
5	0.603517	5				1.015163			
BIAS CORR	0.733456								
VAR COEFF	0.007789					0.013218			
EFFICIENCY	99.82					99.95			
12	5	3				1	0.201281	2	0.061759
						3	0.192290	3	0.114936
						5	0.606430	5	1.063249
			BIAS CORR	0.735511					
			VAR COEFF	0.007824		0.013232			
			EFFICIENCY	99.37		99.85			
			12	5	2	1	0.251932	3	0.167089
						5	0.748068	5	1.065017
						BIAS CORR	0.742844		
						VAR COEFF	0.008016		0.013253
EFFICIENCY	96.98					99.69			
12	5	1				5	1.000000	5	1.206261
						BIAS CORR	0.829008		
						VAR COEFF	0.009224		0.013422
						EFFICIENCY	84.28		98.43
						12	4	4	1
			2	0.104625	2				0.060423
			3	0.099289	3				0.084498
			4	0.603968	4				1.155855
			BIAS CORR	0.692070					

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF	0.008701	0.016729
				EFFICIENCY	100.00	100.00
				EFF(M/N)	61.00	32.02
12	4	2	1	0.192584	2	0.083420
			2	0.143290	3	0.084436
			4	0.664125	4	1.156476
				BIAS CORR	0.692785	
				VAR COEFF	0.008726	0.016738
				EFFICIENCY	99.71	99.94
12	4	2	1	0.253614	2	0.116072
			4	0.746386	4	1.207317
				BIAS CORR	0.697579	
				VAR COEFF	0.008844	0.016756
				EFFICIENCY	98.38	99.84
12	4	1	4	1.000000	4	1.300166
				BIAS CORR	0.769133	
				VAR COEFF	0.009978	0.016867
				EFFICIENCY	87.20	99.18
12	3	2	1	0.223040	1	0.039635
			2	0.119274	2	0.077656
			3	0.657686	3	1.731234
				BIAS CORR	0.642926	
				VAR COEFF	0.010110	0.022779
				EFFICIENCY	100.00	100.00
				EFF(M/N)	52.49	23.52
12	3	2	1	0.260611	2	0.100085
			3	0.739389	3	1.332052
				BIAS CORR	0.645064	
				VAR COEFF	0.010172	0.022796
				EFFICIENCY	99.40	99.93
12	3	1	3	1.000000	3	1.426985
				BIAS CORR	0.700778	
				VAR COEFF	0.011227	0.022861
				EFFICIENCY	90.06	99.64

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
12	2	2	1	0.276425	1	0.057912
			2	0.723575	2	1.578844
			BIAS CORR	0.579987		
			VAR COEFF	0.012601		0.035561
			EFFICIENCY	100.00		100.00
			EFF(M/N)	42.12		15.06
12	2	1	2	1.000000	2	1.624664
			BIAS CORR	0.615512		
			VAR COEFF	0.013486		0.035598
			EFFICIENCY	93.44		99.90
12	1	1	1	1.000000	1	2.003400
			BIAS CORR	0.486996		
			VAR COEFF	0.018666		0.079715
			EFFICIENCY	100.00		100.00
			EFF(M/N)	28.43		6.81
12	13	13	1	0.111998	1	0.008711
			2	0.060156	2	0.017472
			3	0.057183	3	0.024974
			4	0.059729	4	0.034197
			5	0.058824	5	0.040642
			6	0.064188	6	0.051082
			7	0.065117	7	0.058941
			8	0.071042	8	0.070627
			9	0.072671	9	0.080625
			10	0.080909	10	0.096345
			11	0.085242	11	0.112491
			12	0.095564	12	0.138077
			13	0.117377	13	0.202737
			BIAS CORR	0.929581		
			VAR COEFF	0.004896		0.004935
EFFICIENCY	100.00		100.00			
EFF(M/N)	100.00		100.00			
12	13	12	1	0.148898	1	0.018097
			2	-0.251453	2	-0.051153
			3	0.255238	3	0.242516
			5	1.569778	4	-0.365820
			6	-2.336344	5	0.520600

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
			7	1.950569	6	-0.397366
			8	-1.735762	7	0.509239
			9	2.119035	8	-0.501031
			10	-1.815373	9	0.487919
			11	1.225056	11	0.225778
			12	-0.296281	12	0.032901
			13	0.167139	13	0.213922
			BIAS CORR	0.914635		
			VAR COEFF	0.004694		0.004866
			EFFICIENCY	104.31		101.42
11	13	11	1	0.128412	1	0.019020
			2	-0.083526	2	-0.057666
			3	0.162149	3	0.263374
			5	0.764746	4	-0.403919
			6	-1.028948	5	0.566738
			7	0.925932	6	-0.441345
			8	-0.764297	7	0.554744
			9	1.023153	8	-0.558247
			10	-0.799001	9	0.523452
			11	0.556154	11	0.247924
			13	0.115227	13	0.221930
			BIAS CORR	0.925815		
			VAR COEFF	0.004779		0.004869
			EFFICIENCY	102.45		101.36
11	13	10	1	0.108652	2	0.074696
			3	0.110339	3	-0.172293
			5	0.626875	4	0.440126
			6	-0.804194	5	-0.516072
			7	0.747291	6	0.382638
			8	-0.590777	8	0.414772
			9	0.827002	9	-0.524498
			10	-0.618582	10	0.492934
			11	0.472301	12	0.159455
			13	0.121094	13	0.189964
			BIAS CORR	0.924309		
			VAR COEFF	0.004798		0.004871
			EFFICIENCY	102.06		101.32
13	13	9	1	0.134967	3	0.209625



TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
			5	0.721945	4	-0.362875
			6	-0.833652	5	0.518500
			7	0.767525	6	-0.394912
			8	-0.613177	7	0.503803
			9	0.863323	8	-0.490592
			10	-0.653917	9	0.481374
			11	0.491264	11	0.248196
			13	0.121723	13	0.224237
			BIAS CORR	0.930913		
			VAR COEFF	0.004856		0.004881
			EFFICIENCY	100.83		101.12
13	13	8	1	0.110388	4	0.236699
			2	0.078136	5	-0.291888
			4	0.127351	6	0.263942
			6	0.131583	8	0.267722
			8	0.139221	9	-0.256662
			10	0.172061	10	0.348439
			12	0.125262	12	0.169896
			13	0.115197	13	0.195605
			BIAS CORR	0.929170		
			VAR COEFF	0.004893		0.004910
			EFFICIENCY	100.06		100.50
13	13	7	1	0.128568	3	0.056117
			3	0.119255	5	0.098549
			5	0.135968	7	0.114051
			7	0.129993	9	0.171707
			9	0.160420	11	0.163697
			11	0.182825	12	0.125019
			13	0.142971	13	0.204540
			BIAS CORR	0.928209		
			VAR COEFF	0.004919		0.004934
			EFFICIENCY	99.54		100.02
13	13	6	1	0.129812	4	0.096017
			3	0.117632	6	0.110337
			5	0.199760	8	0.136924
			9	0.227319	10	0.206233
			11	0.181023	12	0.179866
			13	0.144454	13	0.201338

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)  
 SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.928405	
				VAR COEFF	0.004959	0.004949
				EFFICIENCY	98.75	99.72
13	13	5	1	0.158949	4	0.144865
			5	0.279583	8	0.197441
			9	0.231338	10	0.202072
			11	0.184135	12	0.182022
			13	0.145993	13	0.202867
				BIAS CORR	0.935832	
				VAR COEFF	0.005026	0.004979
				EFFICIENCY	97.43	99.11
13	13	4	1	0.163121	6	0.255164
			5	0.288911	10	0.274290
			9	0.356143	12	0.181664
			13	0.191825	13	0.204606
				BIAS CORR	0.924561	
				VAR COEFF	0.005166	0.005033
				EFFICIENCY	94.77	98.06
13	13	3	2	0.273449	7	0.327732
			8	0.417868	11	0.329321
			12	0.308683	13	0.250690
				BIAS CORR	0.937423	
				VAR COEFF	0.005494	0.005162
				EFFICIENCY	89.12	95.60
13	13	2	5	0.511384	9	0.551684
			11	0.488616	13	0.335399
				BIAS CORR	0.964095	
				VAR COEFF	0.006045	0.005604
				EFFICIENCY	81.01	88.07
12	12	1	8	1.000000	11	0.887607
				BIAS CORR	0.961021	
				VAR COEFF	0.007899	0.007101
				EFFICIENCY	61.99	69.50
12	12	12	1	0.115406	1	0.010159
			2	0.058851	2	0.013609

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
			3	0.068326	3	0.044587
			4	0.043234	4	0.004064
			5	0.081814	5	0.083096
			6	0.048235	6	0.023139
			7	0.081254	7	0.090129
			8	0.054565	8	0.043031
			9	0.098244	9	0.130474
			10	0.061077	10	0.064315
			11	0.099393	11	0.143575
			12	0.189600	12	0.316476
			BIAS CORR	0.908464		
			VAR COEFF	0.005028		0.005350
			EFFICIENCY	100.00		100.00
			EFF(M/N)	97.38		92.24
13	12	11	1	0.140253	1	0.004413
			2	-0.143748	2	0.053715
			3	0.199723	3	-0.084433
			5	1.067198	4	0.246758
			6	-1.511647	5	-0.229625
			7	1.307423	6	0.342317
			8	-1.120733	7	-0.242993
			9	1.431272	8	0.274779
			10	-1.173123	10	0.293220
			11	0.841857	11	-0.064868
			12	-0.038475	12	0.371760
			BIAS CORR	0.892979		
			VAR COEFF	0.004933		0.005298
			EFFICIENCY	101.92		100.98
13	12	10	1	0.137085	1	-0.000086
			2	-0.119756	2	0.089789
			3	0.186225	3	-0.222449
			5	0.951715	4	0.551404
			6	-1.324567	5	-0.665655
			7	1.160630	6	0.472507
			8	-0.981848	8	0.511275
			9	1.274266	9	-0.692884
			10	-1.027752	10	0.594188
			11	0.744001	12	0.326007
			BIAS CORR	0.896164		

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				VAR COEFF EFFICIENCY		0.004935 101.88 0.005227 102.37
12	12	9	1	0.125936	2	0.089719
			4	0.531892	3	-0.222436
			5	-0.731948	4	0.551376
			6	0.544133	5	-0.665617
			8	0.499106	6	0.472486
			9	-0.711235	8	0.511251
			10	0.704741	9	-0.692839
			11	-0.244985	10	0.594164
			12	0.282360	12	0.326009
				BIAS CORR VAR COEFF EFFICIENCY		0.911043 0.004956 101.46 0.005227 102.37
12	12	8	1	0.137272	3	-0.114790
			4	0.337701	4	0.468437
			5	-0.332751	5	-0.549926
			6	0.313331	6	0.411023
			8	0.316708	8	0.436267
			9	-0.341735	9	-0.553340
			10	0.363031	10	0.521377
			12	0.206443	12	0.334730
				BIAS CORR VAR COEFF EFFICIENCY		0.913716 0.005001 100.55 0.005264 101.64
12	12	7	1	0.113220	4	0.283740
			2	0.079961	5	-0.375743
			4	0.130064	6	0.319489
			6	0.136150	8	0.320899
			8	0.143295	9	-0.339069
			10	0.175968	10	0.407244
			12	0.221341	12	0.346206
				BIAS CORR VAR COEFF EFFICIENCY		0.908541 0.005020 100.17 0.005291 101.12
12	12	6	1	0.146223	4	0.155362
			4	0.172377	5	-0.117224

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
			6	0.135508	6	0.176143
			8	0.145533	8	0.154993
			10	0.178031	10	0.229823
			12	0.222330	12	0.359800
			BIAS CORR	0.912879		
			VAR COEFF	0.005054		0.005338
			EFFICIENCY	99.48		100.23
13	12	5	1	0.147116	4	0.102577
			4	0.233622	6	0.121579
			8	0.220373	8	0.149062
			10	0.172962	10	0.220692
			12	0.225927	12	0.365863
			BIAS CORR	0.913457		
			VAR COEFF	0.005100		0.005356
			EFFICIENCY	98.59		99.90
13	12	4	1	0.150041	4	0.156499
			4	0.236889	8	0.215898
			8	0.323435	10	0.216223
			12	0.289635	12	0.369798
			BIAS CORR	0.908593		
			VAR COEFF	0.005193		0.005393
			EFFICIENCY	96.83		99.22
13	12	3	2	0.273449	6	0.278096
			8	0.417868	10	0.295091
			12	0.308683	12	0.371049
			BIAS CORR	0.937423		
			VAR COEFF	0.005494		0.005454
			EFFICIENCY	91.52		98.11
13	12	2	5	0.511384	8	0.449917
			11	0.488616	12	0.472258
			BIAS CORR	0.964095		
			VAR COEFF	0.006045		0.005723
			EFFICIENCY	83.19		93.48
13	12	1	8	1.000000	11	0.887607
			BIAS CORR	0.961021		
			VAR COEFF	0.007899		0.007101

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		75.35
				63.66		
12	11	11	1	0.117327	1	0.007325
			2	0.076808	2	0.043053
			3	0.018936	3	-0.042763
			4	0.140746	4	0.174411
			5	-0.027621	5	-0.107630
			6	0.143404	6	0.190901
			7	0.001656	7	-0.047041
			8	0.164132	8	0.237847
			9	-0.035508	9	-0.099680
			10	0.184797	10	0.285875
			11	0.215320	11	0.356728
				BIAS CORR		
				0.885088		
				VAR COEFF		0.005877
				0.005206		
				EFFICIENCY		100.00
				100.00		
				EFF(M/N)		83.98
				94.05		
12	11	10	1	0.137085	1	0.038277
			2	-0.119756	2	-0.194171
			3	0.186225	3	0.164893
			5	0.951715	5	1.089336
			6	-1.324567	6	-1.598883
			7	1.160630	7	1.366074
			8	-0.981848	8	-1.152230
			9	1.274266	9	1.498168
			10	-1.027752	10	-1.197202
			11	0.744001	11	0.988635
				BIAS CORR		
				0.896164		
				VAR COEFF		0.005468
				0.004935		
				EFFICIENCY		107.47
				105.49		
13	11	9	1	0.108761	1	-0.081184
			3	0.112062	3	1.675498
			5	0.763537	4	-4.203447
			6	-1.017116	5	6.015272
			7	0.916239	6	-3.262454
			8	-0.743687	8	-3.109617
			9	1.005431	9	6.307093
			10	-0.780312	10	-4.702036
			11	0.635085	11	2.318025

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	J	LOCATION	J	SCALE
				BIAS CORR		
				VAR COEFF		0.005458
				EFFICIENCY		107.67
13	11	8	1	0.135490	3	1.306137
			3	0.850820	4	-3.349549
			5	-1.048160	5	4.814351
			7	0.937683	6	-2.592492
			9	-0.767246	8	-2.457104
			11	1.043263	9	5.052796
			10	-0.817055	10	-3.728155
			11	0.655204	11	1.934517
				BIAS CORR		
				VAR COEFF		0.005575
				EFFICIENCY		106.36
13	11	7	1	0.134180	5	0.825750
			3	0.125781	6	-1.118278
			5	0.146108	7	0.982022
			6	-0.110367	8	-0.788974
			7	0.187236	9	1.082147
			9	0.176777	10	-0.813887
			11	0.240278	11	0.825756
				BIAS CORR		
				VAR COEFF		0.005580
				EFFICIENCY		105.32
13	11	6	1	0.135159	5	0.303847
			3	0.124234	6	-0.243473
			5	0.144910	7	0.376170
			7	0.138740	8	-0.181450
			9	0.166149	9	0.305989
			11	0.240800	11	0.474347
				BIAS CORR		
				VAR COEFF		0.005771
				EFFICIENCY		101.92
13	11	5	1	0.136560	5	0.249846
			3	0.122555	6	-0.169056
			5	0.213142	7	0.214241
			9	0.237663	9	0.213484

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
			11	0.290080	11	0.472418
			BIAS CORR	0.888854		
			VAR COEFF	0.005222		0.005799
			EFFICIENCY	99.70		101.33
12	11	4	1	0.167005	5	0.170056
			5	0.296492	7	0.140277
			9	0.241967	9	0.197545
			11	0.294536	11	0.474639
			BIAS CORR	0.896156		
			VAR COEFF	0.005295		0.005831
			EFFICIENCY	98.33		100.78
12	11	-	1	0.175430	5	0.237049
			5	0.380363	9	0.269859
			11	0.444207	11	0.475095
			BIAS CORR	0.891834		
			VAR COEFF	0.005511		0.005877
			EFFICIENCY	94.48		99.99
12	11	2	5	0.511384	7	0.385989
			11	0.488616	11	0.575328
			BIAS CORR	0.964095		
			VAR COEFF	0.006045		0.006044
			EFFICIENCY	86.13		97.24
13	11	1	3	1.000000	11	0.887607
			BIAS CORR	0.961021		
			VAR COEFF	0.007899		0.007101
			EFFICIENCY	65.91		82.76
12	10	10	1	0.131896	1	0.023322
			2	0.019940	2	-0.060187
			3	0.215812	3	0.302415
			4	-0.210944	4	-0.445117
			5	0.391686	5	0.631678
			6	-0.216501	6	-0.441307
			7	0.351797	7	0.573942
			8	-0.284592	8	-0.549015
			9	0.519491	9	0.884740
			10	0.081416	10	0.122841



TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		0.854224
				VAR COEFF		0.005482
				EFFICIENCY		100.00
				EFF(M/N)		89.32
11	10	9	1	0.108048	1	-0.005083
			2	0.145680	2	0.141045
			3	-0.225882	3	-0.391074
			4	0.656230	4	0.917567
			5	-0.750328	5	-1.158561
			6	0.546650	6	0.760796
			8	0.563385	8	0.789503
			9	-0.802232	9	-1.199548
			10	0.758448	10	1.155589
				BIAS CORR		0.879782
				VAR COEFF		0.005191
				EFFICIENCY		105.61
13	10	8	1	0.113455	2	0.136961
			2	0.070205	3	-0.390363
			4	0.372011	4	0.916112
			5	-0.452364	5	-1.156501
			6	0.392553	6	0.759686
			8	0.367332	8	0.788192
			9	-0.439201	9	-1.196122
			10	0.580008	10	1.154404
				BIAS CORR		0.871863
				VAR COEFF		0.005257
				EFFICIENCY		104.29
13	10	7	1	0.141730	3	-0.230644
			4	0.419858	4	0.802799
			5	-0.477349	5	-0.997704
			6	0.403614	6	0.676415
			8	0.382951	8	0.683562
			9	-0.467109	9	-1.000973
			10	0.596305	10	1.064908
				BIAS CORR		0.875698
				VAR COEFF		0.005283
				EFFICIENCY		103.76

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE				
12	10	6	1	0.120525	4	0.442252				
			2	0.083409	5	-0.667129				
			4	0.140801	6	0.504843				
			6	0.152301	8	0.461094				
			8	0.145712	9	-0.586955				
			10	0.357252	10	0.866147				
			BIAS CORR		0.865575					
			VAR COEFF		0.005355		0.006168			
			EFFICIENCY		102.36		108.55			
			12	10	5	1	0.154991	4	0.224545	
4	0.184997	5				-0.226778				
6	0.151706	6				0.262337				
8	0.148058	8				0.175220				
10	0.360245	10				0.582055				
BIAS CORR		0.869900								
VAR COEFF		0.005393					0.006314			
EFFICIENCY		101.65					106.05			
12	10	4				1	0.157243	4	0.123086	
						4	0.181321	6	0.157946	
			6	0.229773	8	0.164232				
			10	0.431662	10	0.575773				
			BIAS CORR		0.869276					
			VAR COEFF		0.005446		0.006381			
			EFFICIENCY		100.67		104.94			
			12	10	3	1	0.190366	4	0.193650	
						6	0.366595	8	0.251553	
						10	0.443039	10	0.574927	
BIAS CORR		0.878799								
VAR COEFF		0.005587					0.006443			
EFFICIENCY		98.13					103.92			
12	10	2				4	0.445944	6	0.339379	
						10	0.554056	10	0.664025	
						BIAS CORR		0.925609		
						VAR COEFF		0.006056		0.006510
			EFFICIENCY		90.52		102.85			
			12	10	1	8	1.000000	10	0.938313	

TABLE II

COEFFICIENTS FOR ESTIMATION OF  
LOCATION AND SCALE PARAMETERS OF A  
WEIBULL POPULATION FROM L-ORDER STATISTICS  
(SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.961021		0.007303
				0.007899		91.68
				69.40		
13	9	9	1	0.136895	1	0.031550
			2	-0.020637	2	-0.120513
			3	0.344360	3	0.494504
			4	-0.447736	4	-0.798620
			5	0.673829	5	1.052992
			6	-0.474689	6	-0.827037
			7	0.606299	7	0.953933
			8	-0.609734	8	-1.034912
			9	0.791413	9	1.289410
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.855983		0.006638
				0.005457		100.00
				100.00		74.34
				89.73		
13	9	7	1	0.131156	2	-0.094924
			3	0.324345	3	0.489929
			4	-0.432819	4	-0.790385
			5	0.656269	5	1.043260
			6	-0.457802	6	-0.817436
			7	0.587672	7	0.943508
			8	-0.585071	8	-1.021103
			9	0.776250	9	1.281890
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.854897		0.006648
				0.005458		99.85
				99.97		
13	9	7	1	0.142095	3	0.378265
			3	0.207372	4	-0.715512
			4	-0.170836	5	0.955811
			5	0.272289	6	-0.732426
			7	0.213956	7	0.849748
			8	-0.183671	8	-0.895477
			9	0.518796	9	1.208085
				BIAS CORR		
				VAR COEFF		
				EFFICIENCY		
				0.845217		0.006690
				0.005575		99.23
				97.88		

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE			
12	9	0	1	0.144383	3	0.169287			
			3	0.136966	4	-0.217632			
			5	0.221544	5	0.396345			
			6	-0.116831	6	-0.253232			
			7	0.186765	7	0.255278			
			9	0.427173	9	0.704120			
			BIAS CORR		0.843783				
			VAR COEFF		0.005594	0.006975			
			EFFICIENCY		97.55	95.17			
13	9	3	1	0.145439	3	0.151003			
			3	0.135343	4	-0.180646			
			5	0.167391	5	0.260365			
			7	0.135423	7	0.144819			
			9	0.416404	9	0.681666			
			BIAS CORR		0.842314				
			VAR COEFF		0.005609	0.007044			
			EFFICIENCY		97.29	94.24			
			13	9	4	1	0.146781	5	0.322016
3	0.133676	6				-0.201382			
5	0.233941	7				0.232148			
9	0.485601	9				0.693292			
BIAS CORR		0.842210							
VAR COEFF		0.005652				0.007085			
EFFICIENCY		96.55				93.69			
13	9	5				1	0.180208	5	0.227228
						5	0.325330	7	0.144062
			9	0.494462	9	0.675978			
			BIAS CORR		0.849404				
			VAR COEFF		0.005738	0.007130			
			EFFICIENCY		95.09	93.10			
			13	9	2	3	0.384901	5	0.296087
						9	0.615099	9	0.751719
						BIAS CORR		0.886178	
VAR COEFF		0.006201				0.007179			
EFFICIENCY		88.00				92.47			
13	9	1				8	1.000000	9	0.988421

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				BIAS CORR	0.961021	
				VAR COEFF	0.007899	0.007794
				EFFICIENCY	69.08	85.17
13	8	8	1	0.131479	1	0.007519
			2	0.098999	2	0.074502
			3	-0.014111	3	-0.105458
			4	0.215887	4	0.307057
			5	-0.085386	5	-0.208191
			6	0.202244	6	0.301022
			7	-0.045974	7	-0.123791
			8	0.496863	8	0.848039
				BIAS CORR	0.815733	
				VAR COEFF	0.005911	0.007976
				EFFICIENCY	100.00	100.00
				EFF(M/N)	82.83	61.87
13	8	7	1	0.131583	2	0.080355
			2	0.093657	3	-0.105716
			4	0.205799	4	0.307494
			5	-0.082064	5	-0.208760
			6	0.197831	6	0.301752
			7	-0.038761	7	-0.124783
			8	0.491955	8	0.848716
				BIAS CORR	0.815399	
				VAR COEFF	0.005912	0.007977
				EFFICIENCY	99.99	99.99
13	8	6	1	0.132012	2	0.072630
			2	0.093950	3	-0.080432
			4	0.198375	4	0.268192
			5	-0.070903	5	-0.170952
			6	0.175234	6	0.228886
			8	0.471333	8	0.781305
				BIAS CORR	0.815276	
				VAR COEFF	0.005913	0.007990
				EFFICIENCY	99.97	99.83
13	8	5	1	0.132452	2	0.042027
			2	0.093837	4	0.218956
			4	0.166317	5	-0.164058

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
			6	0.142487	6	0.228109
			8	0.464907	8	0.776602
			BIAS CORR	0.814291		
			VAR COEFF	0.005920		0.008005
			EFFICIENCY	99.86		99.64
13	8	4	1	0.171381	4	0.250432
			4	0.216331	5	-0.164372
			6	0.141724	6	0.227337
			8	0.470564	8	0.779306
			BIAS CORR	0.818676		
			VAR COEFF	0.005968		0.008019
			EFFICIENCY	99.06		99.47
13	8	7	1	0.172365	4	0.176471
			4	0.280559	6	0.151722
			8	0.547076	8	0.766578
			BIAS CORR	0.818871		
			VAR COEFF	0.006018		0.008054
			EFFICIENCY	98.23		99.03
13	8	2	2	0.321455	4	0.244183
			8	0.678545	8	0.849613
			BIAS CORR	0.845861		
			VAR COEFF	0.006443		0.008112
			EFFICIENCY	91.75		98.33
13	8	1	8	1.000000	8	1.040560
			BIAS CORR	0.961021		
			VAR COEFF	0.007899		0.008553
			EFFICIENCY	74.84		93.26
13	7	7	1	0.147008	1	0.020747
			2	0.060044	2	0.001643
			3	0.121824	3	0.131439
			4	0.004431	4	-0.063117
			5	0.138296	5	0.183965
			6	0.037520	6	0.018293
			7	0.490876	7	0.857817
			BIAS CORR	0.784809		
			VAR COEFF	0.006318		0.009265

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY		100.00
				EFF(M/N)		53.27
11	7	6	1	0.147022	1	0.021239
			2	0.059972	3	0.132538
			3	0.123774	4	-0.063183
			5	0.140971	5	0.184088
			6	0.036657	6	0.018039
			7	0.491603	7	0.858004
				BIAS CORR		
				0.784862		
				VAR COEFF		0.009265
				0.006318		
				EFFICIENCY		100.00
11	7	5	1	0.147310	1	0.021139
			2	0.058476	3	0.133898
			3	0.125494	4	-0.065549
			5	0.157864	5	0.193618
			7	0.510857	7	0.867575
				BIAS CORR		
				0.784918		
				VAR COEFF		0.009265
				0.006320		
				EFFICIENCY		100.00
11	7	4	1	0.165236	3	0.147739
			3	0.163780	4	-0.065737
			5	0.157229	5	0.193524
			7	0.513756	7	0.868473
				BIAS CORR		
				0.786601		
				VAR COEFF		0.009271
				0.006334		
				EFFICIENCY		99.93
11	7	3	1	0.166615	3	0.119894
			3	0.228078	5	0.159847
			7	0.605307	7	0.865101
				BIAS CORR		
				0.787619		
				VAR COEFF		0.009278
				0.006404		
				EFFICIENCY		99.85
11	7	2	1	0.250070	3	0.183836
			7	0.749930	7	0.958848
				BIAS CORR		
				0.802916		
				VAR COEFF		0.009351
				0.006759		

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	93.47	99.08
12	7	1	7	1.000000	7	1.097119
				BIAS CORR	0.911479	
				VAR COEFF	0.008002	0.009632
				EFFICIENCY	78.96	96.19
12	6	6	1	0.153864	1	0.015632
			2	0.093006	2	0.055909
			3	0.057009	3	0.012911
			4	0.105641	4	0.118204
			5	0.066857	5	0.059660
			6	0.523623	6	0.943766
				BIAS CORR	0.753072	
				VAR COEFF	0.006811	0.010908
				EFFICIENCY	100.00	100.00
				EFF(M/N)	71.89	45.24
12	6		1	0.153732	1	0.015616
			2	0.094361	2	0.060864
			3	0.054498	4	0.126017
			4	0.137352	5	0.058785
			6	0.560057	6	0.944588
				BIAS CORR	0.753243	
				VAR COEFF	0.006817	0.010908
				EFFICIENCY	99.91	100.00
12	6	4	1	0.153837	2	0.072859
			2	0.115367	4	0.126151
			4	0.168819	5	0.058321
			6	0.561976	6	0.945167
				BIAS CORR	0.753894	
				VAR COEFF	0.006824	0.010911
				EFFICIENCY	99.81	99.97
12	6	6	1	0.202153	2	0.072968
			4	0.230518	4	0.152492
			6	0.567329	6	0.976872
				BIAS CORR	0.758395	
				VAR COEFF	0.006897	0.010916
				EFFICIENCY	98.76	99.93



TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
11	6	2	1	0.246081	4	0.207080
			6	0.753919	6	0.980309
			BIAS CORR	0.756841		
			VAR COEFF	0.007126		0.010957
			EFFICIENCY	95.58		99.55
13	6	1	6	1.000000	6	1.160983
			BIAS CORR	0.861335		
			VAR COEFF	0.008278		0.011157
			EFFICIENCY	82.28		97.77
13	5	1	1	0.171086	1	0.024442
			2	0.086239	2	0.036768
			3	0.093983	3	0.078717
			4	0.081334	4	0.074842
			5	0.567357	5	1.058308
			BIAS CORR	0.718083		
			VAR COEFF	0.007451		0.013210
			EFFICIENCY	100.00		100.00
			EFF(M/N)	65.72		37.36
13	5	4	1	0.171456	1	0.035505
			2	0.085828	3	0.102841
			3	0.129070	4	0.074287
			5	0.613645	5	1.059248
			BIAS CORR	0.718381		
			VAR COEFF	0.007462		0.013215
			EFFICIENCY	99.85		99.96
13	5	3	1	0.198039	1	0.035486
			3	0.185444	3	0.134486
			5	0.616517	5	1.101460
			BIAS CORR	0.720306		
			VAR COEFF	0.007492		0.013225
EFFICIENCY	99.45		99.89			
13	5	2	1	0.246046	3	0.157653
			5	0.753954	5	1.102767
			BIAS CORR	0.727248		
			VAR COEFF	0.007660		0.013241

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM L-ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	L	I	LOCATION	I	SCALE
				EFFICIENCY	97.27	99.76
13	5	1	5	1.000000	5	1.236398
				BIAS CORR	0.808801	
				VAR COEFF	0.008754	0.013383
				EFFICIENCY	85.11	98.71
13	4	4	1	0.189977	1	0.027492
			2	0.101904	2	0.057768
			3	0.095072	3	0.078188
			4	0.613047	4	1.195543
				BIAS CORR	0.677994	
				VAR COEFF	0.008345	0.016727
				EFFICIENCY	100.00	100.00
				EFF(M/N)	58.67	29.50
13	4	2	1	0.190578	2	0.078934
			2	0.138688	3	0.078113
			4	0.670934	4	1.196096
				BIAS CORR	0.678683	
				VAR COEFF	0.008367	0.016735
				EFFICIENCY	99.74	99.95
13	4	2	1	0.248991	2	0.108903
			4	0.751009	4	1.243317
				BIAS CORR	0.683241	
				VAR COEFF	0.008472	0.016750
				EFFICIENCY	98.50	99.87
13	4	1	4	1.000000	4	1.330668
				BIAS CORR	0.751502	
				VAR COEFF	0.009512	0.016843
				EFFICIENCY	87.73	99.32
13	3	3	1	0.220856	1	0.037326
			2	0.115906	2	0.072755
			3	0.663238	3	1.368701
				BIAS CORR	0.629980	
				VAR COEFF	0.009704	0.022778
				EFFICIENCY	100.00	100.00
				EFF(M/N)	50.46	21.67

TABLE II  
 COEFFICIENTS FOR ESTIMATION OF  
 LOCATION AND SCALE PARAMETERS OF A  
 WEIBULL POPULATION FROM  $r$ -ORDER STATISTICS  
 (SAMPLE SIZES 11 TO 13)

SHAPE PARAMETER = 4.00

N	M	r	k	LOCATION	k	SCALE
13	3	2	1	0.257126	2	0.101507
			3	0.742874	3	1.369411
			BIAS CORR	0.632024		
			VAR COEFF	0.009758		0.022792
			EFFICIENCY	99.44		99.94
13	3	1	2	1.000000	3	1.458660
			BIAS CORR	0.685561		
			VAR COEFF	0.010738		0.022847
			EFFICIENCY	90.37		99.70
13	2	2	1	0.273954	1	0.054469
			2	0.726044	2	1.615857
			BIAS CORR	0.568414		
			VAR COEFF	0.012101		0.035561
			EFFICIENCY	100.00		100.00
			EFF(M/N)	40.46		13.88
13	2	1	2	1.000000	2	1.658792
			BIAS CORR	0.602776		
			VAR COEFF	0.012937		0.035592
			EFFICIENCY	93.98		99.91
13	1	1	1	1.000000	1	2.094907
			BIAS CORR	0.477348		
			VAR COEFF	0.017934		0.076705
			EFFICIENCY	100.00		100.00
			EFF(M/N)	27.30		6.27

UNCLASSIFIED

Security Classification

DOCUMENT CONTROL DATA - R & D

Security Classification of this body of abstract and synopsis information to be carried when the overall report is classified

1. ORIGINATING ACTIVITY (Corporate author)

Air Force Institute of Technology (AFIT-SE)  
Wright-Patterson AFB, Ohio 45433

2. REPORT SECURITY CLASSIFICATION

UNCLASSIFIED

3a. GROUP

4. REPORT TITLE

Least-Squares Conditional Estimation of the Location Parameter  
of Weibull Populations

5. DESCRIPTIVE NOTES (Type of report and inclusive dates)

AFIT Thesis

6. AUTHOR(S) (First name, middle initial, last name)

William J. Herman  
Captain USAF

7. REPORT DATE

June 1968

7a. TOTAL NO OF PAGES

1053

7b. NO OF PAGES

17

8. CONTRACT OR GRANT NO

9. PROJECT NO N/A

10. ORIGINATOR'S REPORT NUMBER(S)

GAW/MATH/68-1

11. OTHER REPORT NO(S) (Any other numbers that may be assigned  
this report)

12. DISTRIBUTION STATEMENT

Distribution of this document is unlimited.

13. SUPPLEMENTARY NOTES

14. SPONSORING MILITARY ACTIVITY

15. ABSTRACT

The method of least-squares is used to develop linear, unbiased, conditional estimators for the location and scale parameters of the Weibull probability density function with known shape parameter. Tables are provided for computing estimators from 1 order statistics selected from the  $m$  smallest values of a sample of size  $n$ . A method is presented for computing simultaneous estimators directly from the conditional estimators. The tables include sample sizes from 2 to 13 for eleven values of shape parameter--0.5(0.25)2.0(0.5)4.0.

DD FORM 1473  
1 NOV 66

UNCLASSIFIED

Security Classification

UNCLASSIFIED

Security Classification

REQUIREMENTS	A		B		C	
	1	2	1	2	1	2
Order statistics						
Weibull distribution						
Estimation						
Method of least-squares						
Censored data						
Statistical inference						

UNCLASSIFIED

Security Classification