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Cada and Shigno, 1990; Carriker, 1991; Hazell, 1992;

(Martin et al., 1998

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(Samner, 1982)

(Huffman, 1980)

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(Okorie, 1989)

(Serrano, 1998)

(Mishra, 1999)

(Vandev eer, 2001)

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Ding and Ding,)

(Goodwin, 1993)

(Turvey and Islam, 1995)

(1996

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$$Z_i = \ln \frac{p_i}{1 - p_i} = \alpha + \sum_{j=1}^n \beta_j X_{ji}$$

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$$TFP_e = \frac{Q}{\alpha_l(\text{lab}) + \alpha_r(\text{machin}) + \alpha_w(\text{water}) + \alpha_n(\text{N}) + \alpha_s(\text{seed})}$$

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TFPe

P Seed N Water Machin Lab

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(TFP)

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$$Z = -2/55 + 0.26X_1 + 0.138X_2 - 0.38X_3 + 0.92X_4 - 0.49X_5 + 0.000029X_6$$

$$\begin{pmatrix} \text{---} \\ \text{---} \\ \text{---} \end{pmatrix} = \begin{pmatrix} \text{---} \\ \text{---} \\ \text{---} \end{pmatrix} \begin{pmatrix} X \\ X \\ X \end{pmatrix} = Z$$

(M.L.E)

$$/ \begin{pmatrix} \text{---} \\ \text{---} \\ \text{---} \end{pmatrix} \begin{pmatrix} \text{---} \\ \text{---} \\ \text{---} \end{pmatrix} \begin{pmatrix} \text{---} \\ \text{---} \\ \text{---} \end{pmatrix}$$

$$(/)^{()} \quad (/)^{()}$$

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/ : R

/ { - exp(-R/N)} : R

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1. Lagos, Ogun and Oyo

2. elementary index

4- Cragg-Uhler

5- Madalla

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