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.Q2 Q13 L1 D4 :JEL

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(Hosseini et al., 2008)

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 (FAO, 2005)  
 (1975) Gardner (LAPO, 2007) /  
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 (1991) Holloway ( )  
 Gardner ( )  
 (1987) Wohlgenant  
 (2000) Piggott et al. / /  
 /  
 ) (LAPO, 2007)  
 ) ( )  
 ) ( )  
 Heien (1979) Hall et al. )  
 (1999) O' Donnell (1987) Wohlgenant (1980)  
 (2007) Xin & Tan (2004) O' Donnell et al. (Hosseini & Ghahremanzadeh, 2006)  
 (2000) Piggott et al.  
 (Economic Research Services, 2000)  
 Hosseini & (2006) Hosseini & Nikoukar  
 Hosseini & Ghahremanzadeh (2006) Dourandish  
 Hosseini et al. (2009) Hosseini et al. (2006)  
 (2000) Sedaghat (2006) Shajari (2008, 2009)  
 Ghorbani & Dehghanian (2006) Sadrolashrafi et al.  
 Moussanejad et al. (2005) Kalantary et al. (2004)  
 (2008) Shahbazi (1996)  
 (1980) Heien (1975) Gardner ) / /  
 (2000) Piggott et al. ) ( ( ) ( )

(2000) Piggott et al.

$R^2$   
SIC AIC  
( )

$$\text{Log}(X/a) = \text{Log}(A) + \theta \text{Log}(b/a) + \gamma \theta (\text{Log}(b/a))^\gamma$$

$X$  ( )  
a  
b  
( )  
( $\sigma$ )

Hosseini et al.

(2008)

$$X = D(P_x, N)$$

(Gardner, 1975; Hosseini et al., 2008; Piggott et al., 2000)

$$X = f(a, b)$$

$X$   
b ( ) ( ) a ( )

$$\text{Log}(X) = \text{Log}(A) + \alpha \text{Log}(a) + \theta \text{Log}(b) + \gamma \alpha (\text{Log}(a))^\gamma + \gamma \theta (\text{Log}(b))^\gamma + \gamma \text{Log}(a) \text{Log}(b)$$

$$\alpha = 1 - \theta, \quad \gamma \alpha = \gamma \theta, \quad \gamma = -\gamma$$

$$\begin{aligned}
& \mathbf{e}_a \cdot \mathbf{e}_w \quad N \quad \mathbf{P}_x \quad ( \quad ) \quad \mathbf{X} \\
& ( \quad ) \quad : \quad ( \quad ) \\
& \mathbf{X} = \mathbf{A} \mathbf{P}_x \boldsymbol{\eta}_N \boldsymbol{\eta}_N \quad ( \\
& : \\
& \mathbf{P}_b = \mathbf{g}(\mathbf{b}, \mathbf{T}) \quad (v \quad \mathbf{N} \quad \mathbf{X} \quad \mathbf{P}_x \\
& ( \quad ) \\
& \mathbf{T} \quad \mathbf{P}_b \quad \mathbf{b} \\
& ( \quad ) \\
& : \quad ( \quad ) \\
& \mathbf{b} = \mathbf{A} \mathbf{P}_b \mathbf{e}_b \mathbf{T} \mathbf{e}_T \quad ( \quad \boldsymbol{\eta}_N \quad \boldsymbol{\eta} \quad . \\
& ) \quad \mathbf{b} \\
& \mathbf{T} \quad ( \quad \mathbf{P}_b \quad ( \quad ) \quad ( \\
& : \\
& \mathbf{P}_a = \mathbf{h}(\mathbf{a}, \mathbf{W}) \quad ( \\
& ( \quad ) \\
& \mathbf{e}_T \quad \mathbf{e}_b \cdot \mathbf{P}_a \quad \mathbf{W} \quad ( \quad ) \quad \mathbf{a} \\
& ( \quad ) \\
& : \quad ( \quad ) \quad ( \quad ) \\
& \mathbf{a} = \mathbf{A} \mathbf{P}_a \mathbf{e}_a \mathbf{W} \mathbf{e}_w \quad ( \\
& ( \quad ) \quad \mathbf{W} \quad \mathbf{a} \quad \mathbf{P}_a
\end{aligned}$$

:

$$\beta_1 = (1 + 1/\eta)/(1 + 1/e_a) \quad ($$

$$\beta_2 = (1 + 1/\eta)/(1 + 1/e_b) \quad ($$

)

$\beta_2$   $\beta_1$

(

( $e_a$ )

( $\eta$ )

$\beta_1$

( ) ( ) ( ) ( )

( $e_b$ )

( $\eta$ )

$\beta_2$

$$\beta_2 \leq 1 \quad \beta_1 \leq 1$$

( ) ( ) ( ) ( )

(2000) Piggott et al.

( )

(W)

(N)

(T)

( )

)

(R)

/

(1989) Wohlgenant

( $S_a$ )

( $\%M$ )

(T)

(W)

)

(N)

(

( )

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$$1. R = P_x/P_a, \quad S_a = P_a a/P_x x,$$

$$\%M = ((P_x - P_a) \times 100) / P_a = ((P_x/P_a) - 1) \times 100$$

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( )  
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( ) ( )

(IAM, 2005)

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N	W	T	
$\beta_1 \eta_N S_b (e_a - e_b) / D$	$\beta_1 e_w e_a S_b (\eta - e_b) / D$	$\beta_1 e_T e_b S_b (e_a - \eta) / D$	(R)
$\beta_1 \eta_N S_b (e_a - e_b) (\sigma - 1) / D$	$\beta_1 e_w e_a S_b (\eta - e_b) (\sigma - 1) / D$	$\beta_1 e_T e_b S_b (e_a - \eta) (\sigma - 1) / D$	(S <sub>a</sub> )
$E_{R,N} R / (R - 1)$	$E_{R,W} R / (R - 1)$	$E_{R,T} R / (R - 1)$	(%M)

Piggott et al., 2000 :

$$D = -\eta(\beta_1 S_b e_a + \beta_2 S_a e_b) + \beta_1 \beta_2 e_a e_b + \sigma(\beta_1 S_b e_a + \beta_2 S_a e_b)^*$$







:

( )

(T)		(w)				(N)			
$T_r$	$T_v$	$T_s$	$W_r$	$W_v$	$W_s$	$N_r$	$N_v$	$N_s$	
/	/	/	/	/	/	/	/	/	(R)
/	/	/	/	/	/	/	/	/	(S <sub>a</sub> )
/	/	/	/	/	/	/	/	/	(%M)

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