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.Q2 Q13 L1 D4 :JEL

(Hosseini et al., 2008)

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(1975) Gardner (LAPO, 2007) (FAO, 2005)

(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^r

SIC AIC

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

X

a

b

()

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(σ

Hosseini et al.

(2008)

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

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

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

X

b () () a ()

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

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

e_a . e_w N P_x () X
 () : ()
 $X = A P_x \eta_N \eta_N$ ()
 : X
 $P_b = g(b, T)$ (v) N P_x
 ()
 T P_b b
 ()
 : ()
 $b = A P_b e_b T e_r$ (η_N η)
) b
 T (P_b ()) ()
 :
 $P_a = h(a, W)$ ()
 ()
 e_r e_b P_a
 W () a
 ()
 : () ()
 $a = A P_a e_a W e_w$ ()
 () a
 W P_a

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

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

$\beta_2 \quad \beta_1$

(e_a)

(η)

β_1

$() () () ()$

(e_b)

(η)

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

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

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() ()

() () (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 _a)
$E_{R,N} R / (R - 1)$	$E_{R,W} R / (R - 1)$	$E_{R,T} R / (R - 1)$	(%M)

Piggott et al., 2000 :

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

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	(σ)	(DW)	R ^r	θ ₂ θ ₁		
I(0)	/	/	/	/ ***	/ ***	/ ***
				(/)	(/)	(/)
I(0)	/	/ **	/	/ ***	/ ***	
				(/)	(/)	
			(SE)			*** *
						++
				()		

()

DW R^r

I(0)	1/√λ	0/56	2/13	-0/06 **	0/03	-0/05 *	-0/13 ***	0/10	0/27 ***	0/11 **	-1/24 ***
			(1/91)	(0/02)	(0/03)	(0/03)	(0/04)	(0/14)	(0/08)	(0/35)	(0/33)
I(0)	1/√λ	0/54	7/04 ***	-0/05	0/05	0/09 **	0/02	0/23 ***	0/08	-2/27 ***	1/34 *
			(2/3)	(0/04)	(0/04)	(0/04)	(0/04)	(0/07)	(0/14)	(0/23)	(0/82)
						(SE)					*** ** *

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DW R^r

I(0)	/	/	-2/60 ***	-0/08	0/07	-0/08 ***	-0/04	-0/21 **	-0/11 *	0/23 ***
			(0/61)	(0/02)	(0/02)	(0/02)	(0/03)	(0/09)	(0/06)	(0/06)
I(0)	/	/	/ *	/ **	/	/ ***	/ ***	/	/	/ **
			(/)	(/)	(/)	(/)	(/)	(/)	(/)	(/)
						(SE)				*** ** *

()

DW R^r

I(0)	/	/	/ **	/	/ ***	/	/ ***		/ ***	/ ***
			(/)	(/)	(/)	(/)	(/)		(/)	(/)
I(0)	/	/	/	/ **	/ ***	/ ***	/ ***	/ ***	/ ***	/ ***
			(/)	(/)	(/)	(/)	(/)	(/)	(/)	(/)
						(SE)				*** ** *

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(ISC, 2005)

(IAM, 2005)

(IVO, 2005)

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$\cdot \leq \beta_r \leq 1$

$\cdot \leq \beta_l \leq 1$

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(

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(T)

(w)

(N)

T_r

T_r

T_l

W_r

W_r

W_l

N_r

N_r

N_l

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(R)

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(S_a)

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(%M)

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(T)		(w)				(N)			
T_r	T_v	T_w	W_r	W_v	W_w	N_r	N_v	N_w	
/	/	/	/	/	/	/	/	/	(R)
/	/	/	/	/	/	/	/	/	(S _a)
/	/	/	/	/	/	/	/	/	(%M)

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