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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)

(1991) Holloway

Gardner (1987) Wohlgenant

(2000) Piggott et al.

(1979) Hall et al.

(1999) O' Donnell (1987) Wohlgenant (1980)

(2007) Xin & Tan (2004) O' Donnell et al.

(2000) Piggott et al.

(Economic Research Services, 2000)

Hosseini & (2006) Hosseini & Nikoukar

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

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
 $b () () a ()$

$$\text{Log}(X) = \text{Log}(A) + \alpha_1 \text{Log}(a) + \theta, \text{Log}(b) + \gamma/\Delta\alpha_1 (\text{Log}(a))^\gamma + \gamma/\Delta\theta, (\text{Log}(b))^\gamma + \gamma, \text{Log}(a)\text{Log}(b)$$

$$() \quad \alpha_1 = 1 - \theta, \quad \gamma \alpha_1 = \gamma \theta, \quad \gamma = -\gamma,$$

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

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

$\beta_2 \quad \beta_1$

(e_a)
 (η)

β_1

(e_b)
 (η)

β_2

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

(2000) Piggott et al.

(1989) Wohlgenant

(S_a)

$(M\%)$

(T)

(W)

(N)

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 :

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

:

()

(T)			(w)			(N)			
T_r	T_r	T_s	W_r	W_r	W_s	N_r	N_r	N_s	
/	/	/	/	/	/	/	/	/	(R)
/	/	/	/	/	/	/	/	/	(S _a)
/	/	/	/	/	/	/	/	/	(%M)

:

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