

ภาคผนวก ญ

ผลการวิเคราะห์ข้อมูล

มหาวิทยาลัยราชภัฏสุราษฎร์ธานี

มหาวิทยาลัยราชภัฏสุราษฎร์ธานี

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BY

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The following lines were read from file D:\chaiwat\10\excellence.LPJ:

```

TI
!DA NI=18 NO=510 NG=1 MA=CM
SY='D:\chaiwat\10\excellence.dsf' NG=1
SE
5 6 7 8 9 10 11 12 13 14 15 16 17 18 1 2 3 4 /
MO NX=4 NY=14 NK=1 NE=4 LY=FU,FI LX=FU,FI BE=FU,FI GA=FU,FI PH=SY,FR PS=DI,FR
TE=SY TD=SY
LE
STR PRO LER EXC
LK
LEA
FR LY(1,1) LY(2,1) LY(3,1) LY(4,2) LY(5,2) LY(6,2) LY(7,2) LY(8,3) LY(9,3)
FR LY(10,3) LY(11,4) LY(12,4) LY(13,4) LY(14,4) LX(1,1) LX(2,1) LX(3,1) LX(4,1)
FR BE(2,1) BE(3,1) BE(3,2) BE(4,1) BE(4,2) BE(4,3) GA(1,1) GA(2,1) GA(3,1)
FR GA(4,1)
FR TE 1 1 TE 2 2 TE 3 3 TE 4 4 TE 5 5 TE 6 6 TE 7 7 TE 8 8 TE 9 9 TE 10 10
FR TE 11 11 TE 12 12 TE 13 13 TE 14 14 TD 1 1 TD 2 2 TD 3 3 TD 4 4
FR TE 7 6 TD 2 1 TE 3 1 TE 14 11 TE 14 12 TH 3 4 TH 2 1
FR TE 10 8 TE 10 5 TE 6 3 TE 14 5 TE 11 2 TE 6 5 TE 13 12
FR TE 8 4 TE 9 1 TE 12 3 TE 5 4 TE 10 9 TE 14 2 TD 4 2 TD 4 1
FR TE 10 1 TE 4 1 TH 4 12 TH 4 8 TH 4 10 TE 9 3 TE 12 1 TE 9 6
FR TE 10 6 TH 2 5 TH 4 4 TH 2 13 TH 1 14
PD
OU ME=ML AM RS EF FS SC IT=250
    
```

TI

```

Number of Input Variables 18
Number of Y - Variables 14
Number of X - Variables 4
Number of ETA - Variables 4
Number of KSI - Variables 1
Number of Observations 510
    
```

TI

Covariance Matrix

	STRY1	STRY2	STRY3	PROY4	PROY5	PROY6
STRY1	0.26					
STRY2	0.08	0.25				
STRY3	0.05	0.07	0.23			
PROY4	0.04	0.04	0.05	0.33		
PROY5	0.06	0.04	0.06	0.17	0.32	
PROY6	0.05	0.04	0.08	0.13	0.16	0.32
PROY7	0.07	0.06	0.07	0.14	0.16	0.20

LERY8	0.07	0.03	0.06	0.10	0.11	0.10
LERY9	0.04	0.03	0.08	0.11	0.12	0.12
LERY10	0.06	0.06	0.08	0.12	0.11	0.13
EXCY11	0.03	0.04	0.02	0.05	0.06	0.06
EXCY12	0.02	0.03	0.02	0.07	0.08	0.07
EXCY13	0.03	0.02	0.02	0.05	0.07	0.05
EXCY14	0.04	0.04	0.03	0.08	0.07	0.07
LEAX1	0.04	0.03	0.05	0.13	0.11	0.09
LEAX2	0.01	0.04	0.05	0.14	0.11	0.10
LEAX3	0.03	0.03	0.06	0.16	0.11	0.09
LEAX4	0.04	0.03	0.05	0.15	0.14	0.11

## Covariance Matrix

	PROY7	LERY8	LERY9	LERY10	EXCY11	EXCY12
PROY7	0.35					
LERY8	0.12	0.31				
LERY9	0.11	0.18	0.31			
LERY10	0.13	0.16	0.18	0.32		
EXCY11	0.07	0.06	0.06	0.08	0.18	
EXCY12	0.08	0.07	0.07	0.08	0.07	0.17
EXCY13	0.07	0.07	0.06	0.06	0.06	0.09
EXCY14	0.08	0.08	0.08	0.09	0.04	0.06
LEAX1	0.11	0.11	0.10	0.12	0.07	0.08
LEAX2	0.11	0.12	0.12	0.13	0.07	0.08
LEAX3	0.10	0.12	0.12	0.13	0.06	0.06
LEAX4	0.13	0.10	0.12	0.12	0.07	0.06

## Covariance Matrix

	EXCY13	EXCY14	LEAX1	LEAX2	LEAX3	LEAX4
EXCY13	0.17					
EXCY14	0.08	0.20				
LEAX1	0.07	0.06	0.30			
LEAX2	0.08	0.08	0.21	0.40		
LEAX3	0.07	0.08	0.19	0.21	0.37	
LEAX4	0.07	0.08	0.16	0.17	0.21	0.33

TI

## Parameter Specifications

## LAMBDA-Y

	STR	PRO	LER	EXC
STRY1	0	0	0	0
STRY2	1	0	0	0
STRY3	2	0	0	0
PROY4	0	0	0	0
PROY5	0	3	0	0
PROY6	0	4	0	0
PROY7	0	5	0	0
LERY8	0	0	0	0
LERY9	0	0	6	0
LERY10	0	0	7	0
EXCY11	0	0	0	0
EXCY12	0	0	0	8
EXCY13	0	0	0	9
EXCY14	0	0	0	10

## LAMBDA-X

	LEA
LEAX1	11
LEAX2	12
LEAX3	13

LEAX4 14

## BETA

	STR	PRO	LER	EXC
STR	0	0	0	0
PRO	15	0	0	0
LER	16	17	0	0
EXC	18	19	20	0

## GAMMA

	LEA
STR	21
PRO	22
LER	23
EXC	24

## PSI

	STR	PRO	LER	EXC
	25	26	27	28

## THETA-EPS

	STRY1	STRY2	STRY3	PROY4	PROY5	PROY6
STRY1	29					
STRY2	0	30				
STRY3	31	0	32			
PROY4	33	0	0	34		
PROY5	0	0	0	35	36	
PROY6	0	0	37	0	38	39
PROY7	0	0	0	0	0	40
LERY8	0	0	0	42	0	0
LERY9	44	0	45	0	0	46
LERY10	48	0	0	0	49	50
EXCY11	0	54	0	0	0	0
EXCY12	56	0	57	0	0	0
EXCY13	0	0	0	0	0	0
EXCY14	0	61	0	0	62	0

## THETA-EPS

	PROY7	LERY8	LERY9	LERY10	EXCY11	EXCY12
PROY7	41					
LERY8	0	43				
LERY9	0	0	47			
LERY10	0	51	52	53		
EXCY11	0	0	0	0	55	
EXCY12	0	0	0	0	0	58
EXCY13	0	0	0	0	0	59
EXCY14	0	0	0	0	63	64

## THETA-EPS

	EXCY13	EXCY14
EXCY13	60	
EXCY14	0	65

## THETA-DELTA-EPS

	STRY1	STRY2	STRY3	PROY4	PROY5	PROY6
LEAX1	0	0	0	0	0	0
LEAX2	68	0	0	0	69	0

LEAX3	0	0	0	73	0	0
LEAX4	0	0	0	75	0	0

## THETA-DELTA-EPS

	PROY7	LERY8	LERY9	LERY10	EXCY11	EXCY12
	-----	-----	-----	-----	-----	-----
LEAX1	0	0	0	0	0	0
LEAX2	0	0	0	0	0	0
LEAX3	0	0	0	0	0	0
LEAX4	0	76	0	77	0	78

## THETA-DELTA-EPS

	EXCY13	EXCY14
	-----	-----
LEAX1	0	66
LEAX2	70	0
LEAX3	0	0
LEAX4	0	0

## THETA-DELTA

	LEAX1	LEAX2	LEAX3	LEAX4
	-----	-----	-----	-----
LEAX1	67			
LEAX2	71	72		
LEAX3	0	0	74	
LEAX4	79	80	0	81

TI

Number of Iterations = 15

LISREL Estimates (Maximum Likelihood)

## LAMBDA-Y

	STR	PRO	LER	EXC
	-----	-----	-----	-----
STRY1	0.35	- -	- -	- -
STRY2	0.23 (0.05) 4.86	- -	- -	- -
STRY3	0.31 (0.04) 7.15	- -	- -	- -
PROY4	- -	0.38	- -	- -
PROY5	- -	0.40 (0.03) 13.00	- -	- -
PROY6	- -	0.34 (0.03) 10.32	- -	- -
PROY7	- -	0.39 (0.03) 11.46	- -	- -
LERY8	- -	- -	0.44	- -
LERY9	- -	- -	0.42 (0.03) 12.93	- -

LERY10	--	--	0.49 (0.04) 12.38	--
EXCY11	--	--	--	0.25
EXCY12	--	--	--	0.29 (0.03) 9.23
EXCY13	--	--	--	0.25 (0.03) 9.12
EXCY14	--	--	--	0.31 (0.03) 9.18

## LAMBDA-X

	LEA
	-----
LEAX1	0.43 (0.03) 17.00
LEAX2	0.47 (0.03) 16.12
LEAX3	0.43 (0.03) 16.87
LEAX4	0.48 (0.03) 18.62

## BETA

	STR	PRO	LER	EXC
	-----	-----	-----	-----
STR	--	--	--	--
PRO	0.29 (0.08) 3.64	--	--	--
LER	0.17 (0.07) 2.53	0.42 (0.09) 4.49	--	--
EXC	0.00 (0.06) 0.01	0.45 (0.11) 3.98	0.16 (0.07) 2.15	--

## GAMMA

	LEA
	-----
STR	0.33 (0.06) 5.72
PRO	0.59 (0.07) 9.12

LER      0.25  
           (0.07)  
           3.65

EXC      0.18  
           (0.07)  
           2.39

## Covariance Matrix of ETA and KSI

	STR	PRO	LER	EXC	LEA
STR	1.00				
PRO	0.48	1.00			
LER	0.46	0.68	1.00		
EXC	0.35	0.68	0.57	1.00	
LEA	0.33	0.69	0.60	0.58	1.00

PHI

LEA  
 -----  
 1.00

PSI

Note: This matrix is diagonal.

STR	PRO	LER	EXC
0.89 (0.23) 3.89	0.45 (0.08) 5.64	0.49 (0.07) 6.59	0.51 (0.09) 5.38

## Squared Multiple Correlations for Structural Equations

STR	PRO	LER	EXC
0.11	0.55	0.51	0.49

## Squared Multiple Correlations for Reduced Form

STR	PRO	LER	EXC
0.11	0.47	0.36	0.33

Reduced Form

LEA  
 -----

STR      0.33  
           (0.06)  
           5.72

PRO      0.69  
           (0.06)  
           10.68

LER      0.60  
           (0.05)  
           11.02

EXC      0.58  
           (0.06)  
           9.01

THETA-EPS



	STRY1	STRY2	STRY3	PROY4	PROY5	PROY6
	-----	-----	-----	-----	-----	-----
STRY1	0.14 (0.03) 5.15					
STRY2	- -	0.20 (0.02) 13.16				
STRY3	-0.05 (0.02) -2.64	- -	0.13 (0.02) 5.97			
PROY4	-0.02 (0.01) -1.57	- -	- -	0.19 (0.02) 11.82		
PROY5	- -	- -	- -	0.02 (0.01) 1.52	0.16 (0.02) 10.80	
PROY6	- -	- -	0.02 (0.01) 2.87	- -	0.03 (0.01) 2.69	0.21 (0.02) 13.28
PROY7	- -	- -	- -	- -	- -	0.07 (0.01) 5.70
LERY8	- -	- -	- -	-0.02 (0.01) -1.97	- -	- -
LERY9	-0.02 (0.01) -2.11	- -	0.01 (0.01) 1.80	- -	- -	0.02 (0.01) 2.12
LERY10	-0.02 (0.01) -1.86	- -	- -	- -	-0.03 (0.01) -2.97	0.01 (0.01) 1.59
EXCY11	- -	0.02 (0.01) 2.46	- -	- -	- -	- -
EXCY12	-0.01 (0.01) -1.51	- -	-0.01 (0.01) -2.17	- -	- -	- -
EXCY13	- -	- -	- -	- -	- -	- -
EXCY14	- -	0.01 (0.01) 1.67	- -	- -	-0.02 (0.01) -2.69	- -
THETA-EPS						
	PROY7	LERY8	LERY9	LERY10	EXCY11	EXCY12
	-----	-----	-----	-----	-----	-----
PROY7	0.20 (0.02) 12.89					
LERY8	- -	0.12 (0.01) 8.38				
LERY9	- -	- -	0.13			

				(0.01)			
				9.58			
LERY10	- -	-0.06	-0.03	0.08			
		(0.02)	(0.02)	(0.03)			
		-3.85	-1.62	3.12			
EXCY11	- -	- -	- -	- -	0.12		
					(0.01)		
					12.29		
EXCY12	- -	- -	- -	- -	- -	0.09	
						(0.01)	
						9.40	
EXCY13	- -	- -	- -	- -	- -	0.01	
						(0.01)	
						1.92	
EXCY14	- -	- -	- -	- -	-0.04	-0.03	
					(0.01)	(0.01)	
					-4.59	-3.19	

## THETA-EPS

	EXCY13	EXCY14
	-----	-----
EXCY13	0.11	
	(0.01)	
	13.13	
EXCY14	- -	0.10
		(0.01)
		8.59

## Squared Multiple Correlations for Y - Variables

STRY1	STRY2	STRY3	PROY4	PROY5	PROY6
-----	-----	-----	-----	-----	-----
0.46	0.20	0.43	0.44	0.50	0.35

## Squared Multiple Correlations for Y - Variables

PROY7	LERY8	LERY9	LERY10	EXCY11	EXCY12
-----	-----	-----	-----	-----	-----
0.44	0.61	0.57	0.75	0.36	0.47

## Squared Multiple Correlations for Y - Variables

EXCY13	EXCY14
-----	-----
0.35	0.49

## THETA-DELTA-EPS

	STRY1	STRY2	STRY3	PROY4	PROY5	PROY6
	-----	-----	-----	-----	-----	-----
LEAX1	- -	- -	- -	- -	- -	- -
LEAX2	-0.03	- -	- -	- -	-0.02	- -
	(0.01)				(0.01)	
	-3.34				-2.23	
LEAX3	- -	- -	- -	0.04	- -	- -
				(0.01)		
				3.94		
LEAX4	- -	- -	- -	0.02	- -	- -
				(0.01)		

2.02

## THETA-DELTA-EPS

	PROY7	LERY8	LERY9	LERY10	EXCY11	EXCY12
LEAX1	- -	- -	- -	- -	- -	- -
LEAX2	- -	- -	- -	- -	- -	- -
LEAX3	- -	- -	- -	- -	- -	- -
LEAX4	- -	-0.03 (0.01) -3.03	- -	-0.02 (0.01) -2.58	- -	-0.02 (0.01) -2.91

## THETA-DELTA-EPS

	EXCY13	EXCY14
LEAX1	- -	-0.01 (0.01) -1.92
LEAX2	0.01 (0.01) 2.02	- -
LEAX3	- -	- -
LEAX4	- -	- -

## THETA-DELTA

	LEAX1	LEAX2	LEAX3	LEAX4
LEAX1	0.12 (0.01) 7.87			
LEAX2	0.01 (0.01) 0.45	0.17 (0.02) 8.57		
LEAX3	- -	- -	0.18 (0.01) 12.52	
LEAX4	-0.04 (0.01) -3.50	-0.06 (0.01) -4.24	- -	0.10 (0.02) 5.87

## Squared Multiple Correlations for X - Variables

LEAX1	LEAX2	LEAX3	LEAX4
0.61	0.57	0.50	0.71

## Goodness of Fit Statistics

Degrees of Freedom = 90  
 Minimum Fit Function Chi-Square = 58.88 (P = 1.00)  
 Normal Theory Weighted Least Squares Chi-Square = 57.77 (P = 1.00)  
 Estimated Non-centrality Parameter (NCP) = 0.0  
 90 Percent Confidence Interval for NCP = (0.0 ; 0.0)

Minimum Fit Function Value = 0.12  
 Population Discrepancy Function Value (F0) = 0.0  
 90 Percent Confidence Interval for F0 = (0.0 ; 0.0)  
 Root Mean Square Error of Approximation (RMSEA) = 0.0  
 90 Percent Confidence Interval for RMSEA = (0.0 ; 0.0)  
 P-Value for Test of Close Fit (RMSEA < 0.05) = 1.00

Expected Cross-Validation Index (ECVI) = 0.50  
 90 Percent Confidence Interval for ECVI = (0.50 ; 0.50)  
 ECVI for Saturated Model = 0.67  
 ECVI for Independence Model = 15.43

Chi-Square for Independence Model with 153 Degrees of Freedom = 7817.78

Independence AIC = 7853.78  
 Model AIC = 219.77  
 Saturated AIC = 342.00  
 Independence CAIC = 7948.00  
 Model CAIC = 643.75  
 Saturated CAIC = 1237.08

Normed Fit Index (NFI) = 0.99  
 Non-Normed Fit Index (NNFI) = 1.01  
 Parsimony Normed Fit Index (PNFI) = 0.58  
 Comparative Fit Index (CFI) = 1.00  
 Incremental Fit Index (IFI) = 1.00  
 Relative Fit Index (RFI) = 0.99

Critical N (CN) = 1073.97

Root Mean Square Residual (RMR) = 0.0057  
 Standardized RMR = 0.020  
 Goodness of Fit Index (GFI) = 0.99  
 Adjusted Goodness of Fit Index (AGFI) = 0.98  
 Parsimony Goodness of Fit Index (PGFI) = 0.52

TI

Fitted Covariance Matrix

	STRY1	STRY2	STRY3	PROY4	PROY5	PROY6
STRY1	0.26					
STRY2	0.08	0.25				
STRY3	0.05	0.07	0.23			
PROY4	0.05	0.04	0.06	0.33		
PROY5	0.07	0.04	0.06	0.17	0.32	
PROY6	0.06	0.04	0.07	0.13	0.16	0.32
PROY7	0.07	0.04	0.06	0.15	0.16	0.20
LERY8	0.07	0.04	0.06	0.10	0.12	0.10
LERY9	0.05	0.04	0.07	0.11	0.11	0.11
LERY10	0.06	0.05	0.07	0.13	0.11	0.13
EXCY11	0.03	0.04	0.03	0.07	0.07	0.06
EXCY12	0.02	0.02	0.02	0.07	0.08	0.07
EXCY13	0.03	0.02	0.03	0.06	0.07	0.06
EXCY14	0.04	0.04	0.03	0.08	0.06	0.07
LEAX1	0.05	0.03	0.04	0.11	0.12	0.10
LEAX2	0.02	0.03	0.05	0.12	0.11	0.11
LEAX3	0.05	0.03	0.04	0.15	0.12	0.10
LEAX4	0.05	0.04	0.05	0.14	0.13	0.11

Fitted Covariance Matrix

	PROY7	LERY8	LERY9	LERY10	EXCY11	EXCY12
PROY7	0.35					
LERY8	0.12	0.31				
LERY9	0.11	0.18	0.31			
LERY10	0.13	0.16	0.18	0.32		
EXCY11	0.07	0.06	0.06	0.07	0.18	
EXCY12	0.08	0.07	0.07	0.08	0.07	0.17

EXCY13	0.07	0.06	0.06	0.07	0.06	0.08
EXCY14	0.08	0.08	0.07	0.09	0.04	0.06
LEAX1	0.12	0.11	0.11	0.13	0.06	0.07
LEAX2	0.13	0.12	0.12	0.14	0.07	0.08
LEAX3	0.12	0.11	0.11	0.13	0.06	0.07
LEAX4	0.13	0.10	0.12	0.12	0.07	0.06

## Fitted Covariance Matrix

	EXCY13	EXCY14	LEAX1	LEAX2	LEAX3	LEAX4
EXCY13	0.17					
EXCY14	0.08	0.20				
LEAX1	0.06	0.06	0.30			
LEAX2	0.08	0.09	0.21	0.39		
LEAX3	0.06	0.08	0.18	0.20	0.37	
LEAX4	0.07	0.09	0.16	0.17	0.21	0.33

## Fitted Residuals

	STRY1	STRY2	STRY3	PROY4	PROY5	PROY6
STRY1	0.00					
STRY2	0.00	0.00				
STRY3	0.00	0.00	0.00			
PROY4	-0.01	0.00	-0.01	0.00		
PROY5	0.00	0.00	0.00	0.00	0.00	
PROY6	-0.01	0.00	0.00	0.00	0.00	0.00
PROY7	0.01	0.02	0.02	-0.01	0.00	0.00
LERY8	0.00	-0.01	0.00	0.00	0.00	0.00
LERY9	0.00	-0.01	0.00	0.00	0.00	0.00
LERY10	0.00	0.01	0.01	0.00	0.00	0.00
EXCY11	0.00	0.00	0.00	-0.01	-0.01	0.00
EXCY12	0.00	0.00	0.00	0.00	0.01	0.00
EXCY13	0.01	0.00	-0.01	-0.01	0.00	0.00
EXCY14	0.00	0.00	0.00	0.00	0.00	0.00
LEAX1	-0.01	0.00	0.01	0.01	-0.01	-0.01
LEAX2	-0.01	0.00	0.00	0.02	0.00	-0.01
LEAX3	-0.02	0.00	0.02	0.01	0.00	-0.01
LEAX4	-0.01	0.00	0.01	0.01	0.00	0.00

## Fitted Residuals

	PROY7	LERY8	LERY9	LERY10	EXCY11	EXCY12
PROY7	0.00					
LERY8	0.01	0.00				
LERY9	0.00	0.00	0.00			
LERY10	0.00	0.00	0.00	0.00		
EXCY11	0.01	0.00	0.00	0.01	0.00	
EXCY12	0.00	0.00	0.00	0.00	0.00	0.00
EXCY13	0.00	0.01	0.00	0.00	0.00	0.00
EXCY14	0.00	0.00	0.00	0.00	0.00	0.00
LEAX1	-0.01	0.00	-0.01	0.00	0.01	0.01
LEAX2	-0.02	0.00	0.00	0.00	0.00	0.00
LEAX3	-0.01	0.01	0.01	0.00	-0.01	-0.01
LEAX4	0.00	0.00	0.00	0.00	0.00	0.00

## Fitted Residuals

	EXCY13	EXCY14	LEAX1	LEAX2	LEAX3	LEAX4
EXCY13	0.00					
EXCY14	0.00	0.00				
LEAX1	0.01	0.00	0.00			
LEAX2	0.00	-0.01	0.00	0.00		
LEAX3	0.01	0.00	0.00	0.01	0.00	
LEAX4	0.00	0.00	0.00	0.00	0.00	0.00

Summary Statistics for Fitted Residuals

Smallest Fitted Residual = -0.02  
 Median Fitted Residual = 0.00  
 Largest Fitted Residual = 0.02

## Stemleaf Plot

```

-18|4
-16|
-14|2
-12|8
-10|52420
- 8|6699631
- 6|5965541
- 4|9760877776431100
- 2|9864321966642
- 0|76110998777554443332110000
0|111223344466677788889111122233444467789999
2|002466678800233789
4|113356779012334
6|013551
8|03355
10|12
12|4
14|207
16|
18|17

```

## Standardized Residuals

	STRY1	STRY2	STRY3	PROY4	PROY5	PROY6
STRY1	0.46					
STRY2	0.40	0.07				
STRY3	-0.21	-0.84	-0.81			
PROY4	-1.86	-0.32	-1.04	0.23		
PROY5	-0.51	-0.53	-0.29	-0.12	-0.21	
PROY6	-1.23	0.35	0.96	0.22	0.62	1.10
PROY7	0.80	1.94	1.76	-1.02	0.41	1.04
LERY8	-0.24	-1.25	0.10	0.10	-0.53	0.60
LERY9	-1.14	-1.08	0.36	0.16	0.37	0.96
LERY10	0.04	0.90	1.29	-0.63	-0.31	0.39
EXCY11	0.35	0.13	-0.44	-1.45	-0.96	-0.35
EXCY12	0.40	0.44	-0.14	-0.40	0.93	0.67
EXCY13	0.70	-0.09	-0.92	-1.37	0.11	-0.22
EXCY14	0.60	0.39	-0.56	0.60	0.77	-0.16
LEAX1	-0.67	-0.51	1.35	1.85	-0.78	-1.38
LEAX2	-1.40	0.16	0.29	2.14	-0.03	-0.62
LEAX3	-1.90	0.01	1.61	2.25	-0.58	-1.01
LEAX4	-1.21	-0.35	0.66	2.37	0.44	0.14

## Standardized Residuals

	PROY7	LERY8	LERY9	LERY10	EXCY11	EXCY12
PROY7	-					
LERY8	0.67	0.53				
LERY9	0.22	0.70	0.86			
LERY10	0.29	1.10	0.60	0.59		
EXCY11	0.87	-0.46	-0.12	0.93	0.27	
EXCY12	0.13	-0.78	-0.54	-0.83	-0.15	0.22
EXCY13	0.10	0.93	-0.35	-0.66	-0.10	0.75
EXCY14	0.00	0.42	0.69	0.01	-0.27	-0.08
LEAX1	-1.10	0.28	-0.86	-0.12	1.23	0.83
LEAX2	-1.57	0.03	0.52	-0.64	-0.52	0.51
LEAX3	-1.41	1.03	1.46	0.67	-0.88	-0.95
LEAX4	-0.62	0.66	0.16	0.10	0.42	-0.31

## Standardized Residuals

	EXCY13	EXCY14	LEAX1	LEAX2	LEAX3	LEAX4
EXCY13						
EXCY14						
LEAX1						
LEAX2						
LEAX3						
LEAX4						

EXCY13	-0.52						
EXCY14	-0.38	-0.61					
LEAX1	1.20	-0.18	0.99				
LEAX2	0.40	-0.96	1.55	1.74			
LEAX3	0.66	0.05	0.53	2.12	2.87		
LEAX4	-0.40	-0.61	0.50	1.20	0.42	0.57	

Summary Statistics for Standardized Residuals

Smallest Standardized Residual = -1.90  
 Median Standardized Residual = 0.11  
 Largest Standardized Residual = 2.87

Stemleaf Plot

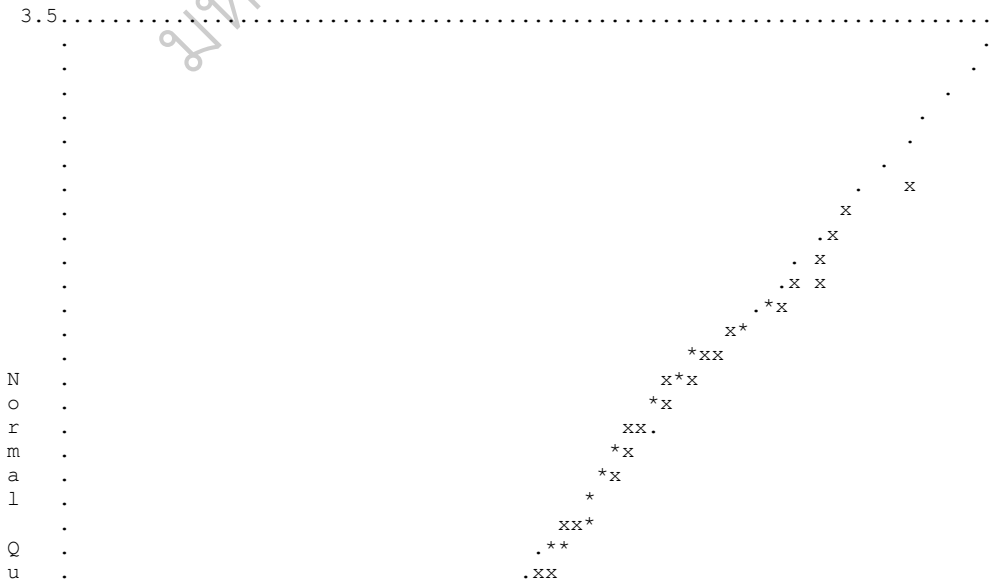
```

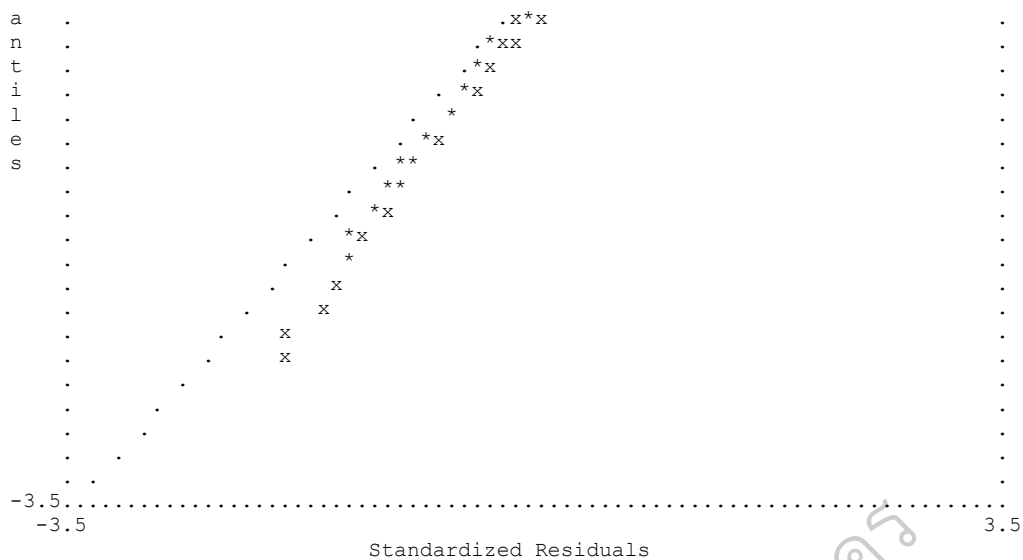
-18|06
-16|
-14|7510
-12|87531
-10|408421
- 8|665286431
- 6|8876432211
- 4|8643322116400
- 2|8555211974211
- 0|8654222098300
0|11345700001334666
2|22237899556799
4|00012224460123379
6|0000266677790057
8|03670333669
10|3400
12|00395
14|65
16|146
18|54
20|24
22|57
24|
26|
28|7
    
```

Largest Positive Standardized Residuals  
 Residual for LEAX3 and LEAX3 2.87

TI

Qplot of Standardized Residuals





TI

Modification Indices and Expected Change

Modification Indices for LAMBDA-Y

	STR	PRO	LER	EXC
STRY1	- -	0.45	0.20	0.16
STRY2	- -	0.42	0.76	0.07
STRY3	- -	0.15	0.76	0.30
PROY4	3.02	- -	0.52	0.36
PROY5	0.00	- -	0.03	0.08
PROY6	1.23	- -	0.13	0.03
PROY7	5.81	- -	0.30	0.21
LERY8	0.61	0.02	- -	0.05
LERY9	0.44	0.20	- -	0.11
LERY10	1.59	0.39	- -	0.01
EXCY11	0.00	0.32	0.50	- -
EXCY12	0.05	0.53	1.19	- -
EXCY13	0.08	0.27	0.00	- -
EXCY14	0.04	0.08	0.28	- -

Expected Change for LAMBDA-Y

	STR	PRO	LER	EXC
STRY1	- -	-0.03	-0.02	0.02
STRY2	- -	0.05	-0.05	0.01
STRY3	- -	0.02	0.04	-0.02
PROY4	-0.07	- -	-0.03	-0.03
PROY5	0.00	- -	-0.01	0.01
PROY6	-0.04	- -	0.02	-0.01
PROY7	0.08	- -	0.02	0.02
LERY8	-0.03	0.02	- -	-0.01
LERY9	-0.04	0.04	- -	0.01
LERY10	0.06	-0.07	- -	-0.01
EXCY11	0.00	-0.03	0.02	- -
EXCY12	0.01	0.03	-0.03	- -
EXCY13	-0.01	-0.02	0.00	- -
EXCY14	0.01	0.02	0.02	- -

Standardized Expected Change for LAMBDA-Y

	STR	PRO	LER	EXC
STRY1	- -	-0.03	-0.02	0.02



STRY2	- -	0.05	-0.05	0.01
STRY3	- -	0.02	0.04	-0.02
PROY4	-0.07	- -	-0.03	-0.03
PROY5	0.00	- -	-0.01	0.01
PROY6	-0.04	- -	0.02	-0.01
PROY7	0.08	- -	0.02	0.02
LERY8	-0.03	0.02	- -	-0.01
LERY9	-0.04	0.04	- -	0.01
LERY10	0.06	-0.07	- -	-0.01
EXCY11	0.00	-0.03	0.02	- -
EXCY12	0.01	0.03	-0.03	- -
EXCY13	-0.01	-0.02	0.00	- -
EXCY14	0.01	0.02	0.02	- -

## Completely Standardized Expected Change for LAMBDA-Y

	STR	PRO	LER	EXC
STRY1	- -	-0.07	-0.04	0.03
STRY2	- -	0.09	-0.10	0.02
STRY3	- -	0.04	0.08	-0.04
PROY4	-0.11	- -	-0.06	-0.05
PROY5	0.00	- -	-0.01	0.02
PROY6	-0.07	- -	0.03	-0.01
PROY7	0.13	- -	0.04	0.03
LERY8	-0.05	0.03	- -	-0.02
LERY9	-0.06	0.07	- -	0.02
LERY10	0.10	-0.12	- -	-0.01
EXCY11	0.00	-0.06	0.05	- -
EXCY12	0.02	0.08	-0.07	- -
EXCY13	-0.01	-0.05	0.00	- -
EXCY14	0.01	0.04	0.04	- -

No Non-Zero Modification Indices for LAMBDA-X

No Non-Zero Modification Indices for BETA

No Non-Zero Modification Indices for GAMMA

No Non-Zero Modification Indices for PHI

No Non-Zero Modification Indices for PSI

## Modification Indices for THETA-EPS

	STRY1	STRY2	STRY3	PROY4	PROY5	PROY6
STRY1	- -	- -	- -	- -	- -	- -
STRY2	0.20	- -	- -	- -	- -	- -
STRY3	- -	0.20	- -	- -	- -	- -
PROY4	- -	0.00	2.07	- -	- -	- -
PROY5	0.17	0.11	0.06	- -	- -	- -
PROY6	1.84	0.02	- -	0.53	- -	- -
PROY7	0.48	1.37	1.57	0.77	0.11	- -
LERY8	0.02	0.63	0.10	- -	0.66	0.55
LERY9	- -	0.61	- -	0.00	0.55	- -
LERY10	- -	0.62	0.51	0.65	- -	- -
EXCY11	0.07	- -	0.14	0.89	0.58	0.42
EXCY12	- -	0.24	- -	0.00	0.82	0.55
EXCY13	0.31	0.04	0.43	1.74	0.02	0.01
EXCY14	0.38	- -	0.46	1.01	- -	0.09

## Modification Indices for THETA-EPS

	PROY7	LERY8	LERY9	LERY10	EXCY11	EXCY12
PROY7	- -	- -	- -	- -	- -	- -
LERY8	0.08	- -	- -	- -	- -	- -
LERY9	0.11	- -	- -	- -	- -	- -
LERY10	0.10	- -	- -	- -	- -	- -
EXCY11	1.20	0.26	0.00	1.44	- -	- -

EXCY12	0.13	0.77	0.01	0.22	0.01	--
EXCY13	0.07	1.41	0.27	0.23	0.00	--
EXCY14	0.00	0.02	0.68	0.00	--	--

## Modification Indices for THETA-EPS

	EXCY13	EXCY14
	-----	-----
EXCY13	--	--
EXCY14	0.00	--

## Expected Change for THETA-EPS

	STRY1	STRY2	STRY3	PROY4	PROY5	PROY6
	-----	-----	-----	-----	-----	-----
STRY1	--	--	--	--	--	--
STRY2	0.01	--	--	--	--	--
STRY3	--	-0.01	--	--	--	--
PROY4	--	0.00	-0.01	--	--	--
PROY5	0.00	0.00	0.00	--	--	--
PROY6	-0.01	0.00	--	0.01	--	--
PROY7	0.01	0.01	0.01	-0.01	0.00	--
LERY8	0.00	-0.01	0.00	--	-0.01	0.01
LERY9	--	-0.01	--	0.00	0.01	--
LERY10	--	0.01	0.01	-0.01	--	--
EXCY11	0.00	--	0.00	-0.01	-0.01	0.00
EXCY12	--	0.00	--	0.00	0.01	0.00
EXCY13	0.00	0.00	0.00	-0.01	0.00	0.00
EXCY14	0.01	--	-0.01	0.01	--	0.00

## Expected Change for THETA-EPS

	PROY7	LERY8	LERY9	LERY10	EXCY11	EXCY12
	-----	-----	-----	-----	-----	-----
PROY7	--	--	--	--	--	--
LERY8	0.00	--	--	--	--	--
LERY9	0.00	--	--	--	--	--
LERY10	0.00	--	--	--	--	--
EXCY11	0.01	0.00	0.00	0.01	--	--
EXCY12	0.00	-0.01	0.00	0.00	0.00	--
EXCY13	0.00	0.01	0.00	0.00	0.00	--
EXCY14	0.00	0.00	0.01	0.00	--	--

## Expected Change for THETA-EPS

	EXCY13	EXCY14
	-----	-----
EXCY13	--	--
EXCY14	0.00	--

## Completely Standardized Expected Change for THETA-EPS

	STRY1	STRY2	STRY3	PROY4	PROY5	PROY6
	-----	-----	-----	-----	-----	-----
STRY1	--	--	--	--	--	--
STRY2	0.03	--	--	--	--	--
STRY3	--	-0.03	--	--	--	--
PROY4	--	0.00	-0.05	--	--	--
PROY5	0.01	-0.01	-0.01	--	--	--
PROY6	-0.04	0.00	--	0.02	--	--
PROY7	0.02	0.04	0.04	-0.03	0.01	--
LERY8	0.01	-0.03	-0.01	--	-0.02	0.02
LERY9	--	-0.02	--	0.00	0.02	--
LERY10	--	0.03	0.03	-0.02	--	--
EXCY11	0.01	--	-0.01	-0.03	-0.02	-0.02
EXCY12	--	0.02	--	0.00	0.03	0.02
EXCY13	0.02	-0.01	-0.02	-0.04	0.00	0.00
EXCY14	0.02	--	-0.03	0.03	--	-0.01

## Completely Standardized Expected Change for THETA-EPS

	PROY7	LERY8	LERY9	LERY10	EXCY11	EXCY12
	-----	-----	-----	-----	-----	-----
PROY7	- -					
LERY8	0.01	- -				
LERY9	-0.01	- -	- -			
LERY10	0.01	- -	- -	- -		
EXCY11	0.03	-0.02	0.00	0.04	- -	
EXCY12	-0.01	-0.02	0.00	-0.01	0.00	- -
EXCY13	0.01	0.03	-0.01	-0.01	0.00	- -
EXCY14	0.00	0.00	0.02	0.00	- -	- -

## Completely Standardized Expected Change for THETA-EPS

	EXCY13	EXCY14
	-----	-----
EXCY13	- -	
EXCY14	0.00	- -

## Modification Indices for THETA-DELTA-EPS

	STRY1	STRY2	STRY3	PROY4	PROY5	PROY6
	-----	-----	-----	-----	-----	-----
LEAX1	0.11	1.17	1.44	1.47	0.81	0.90
LEAX2	- -	0.56	0.62	2.44	- -	0.10
LEAX3	2.32	0.12	1.60	- -	0.03	0.52
LEAX4	0.06	0.06	0.00	- -	0.29	0.60

## Modification Indices for THETA-DELTA-EPS

	PROY7	LERY8	LERY9	LERY10	EXCY11	EXCY12
	-----	-----	-----	-----	-----	-----
LEAX1	0.00	0.36	2.38	0.05	1.96	0.14
LEAX2	1.08	0.19	0.85	0.65	1.13	0.81
LEAX3	0.04	0.20	0.84	0.13	0.97	1.45
LEAX4	0.05	- -	0.29	- -	0.78	- -

## Modification Indices for THETA-DELTA-EPS

	EXCY13	EXCY14
	-----	-----
LEAX1	0.24	- -
LEAX2	- -	1.01
LEAX3	1.31	0.02
LEAX4	0.47	0.22

## Expected Change for THETA-DELTA-EPS

	STRY1	STRY2	STRY3	PROY4	PROY5	PROY6
	-----	-----	-----	-----	-----	-----
LEAX1	0.00	-0.01	0.01	0.01	-0.01	-0.01
LEAX2	- -	0.01	-0.01	0.02	- -	0.00
LEAX3	-0.01	0.00	0.01	- -	0.00	-0.01
LEAX4	0.00	0.00	0.00	- -	0.00	0.01

## Expected Change for THETA-DELTA-EPS

	PROY7	LERY8	LERY9	LERY10	EXCY11	EXCY12
	-----	-----	-----	-----	-----	-----
LEAX1	0.00	0.00	-0.01	0.00	0.01	0.00
LEAX2	-0.01	0.00	0.01	-0.01	-0.01	0.01
LEAX3	0.00	0.00	0.01	0.00	-0.01	-0.01
LEAX4	0.00	- -	-0.01	- -	0.01	- -

## Expected Change for THETA-DELTA-EPS

	EXCY13	EXCY14
	-----	-----
LEAX1	0.00	- -
LEAX2	- -	-0.01
LEAX3	0.01	0.00
LEAX4	0.00	0.00

## Completely Standardized Expected Change for THETA-DELTA-EPS

	STRY1	STRY2	STRY3	PROY4	PROY5	PROY6
LEAX1	0.01	-0.03	0.03	0.03	-0.02	-0.02
LEAX2	-	0.02	-0.02	0.04	-	0.01
LEAX3	-0.05	0.01	0.04	-	0.00	-0.02
LEAX4	-0.01	-0.01	0.00	-	0.02	0.02

## Completely Standardized Expected Change for THETA-DELTA-EPS

	PROY7	LERY8	LERY9	LERY10	EXCY11	EXCY12
LEAX1	0.00	0.02	-0.04	0.01	0.04	0.01
LEAX2	-0.03	-0.01	0.02	-0.02	-0.03	0.03
LEAX3	0.00	0.01	0.02	0.01	-0.03	-0.03
LEAX4	-0.01	-	-0.02	-	0.03	-

## Completely Standardized Expected Change for THETA-DELTA-EPS

	EXCY13	EXCY14
LEAX1	0.01	-
LEAX2	-	-0.03
LEAX3	0.03	0.00
LEAX4	-0.02	-0.01

## Modification Indices for THETA-DELTA

	LEAX1	LEAX2	LEAX3	LEAX4
LEAX1	-	-	-	-
LEAX2	-	-	-	-
LEAX3	0.16	0.30	-	-
LEAX4	-	-	0.02	-

## Expected Change for THETA-DELTA

	LEAX1	LEAX2	LEAX3	LEAX4
LEAX1	-	-	-	-
LEAX2	-	-	-	-
LEAX3	0.00	0.01	-	-
LEAX4	-	-	0.00	-

## Completely Standardized Expected Change for THETA-DELTA

	LEAX1	LEAX2	LEAX3	LEAX4
LEAX1	-	-	-	-
LEAX2	-	-	-	-
LEAX3	-0.01	0.02	-	-
LEAX4	-	-	-0.01	-

Maximum Modification Index is 5.81 for Element ( 7, 1) of LAMBDA-Y

TI

## Factor Scores Regressions

## ETA

	STRY1	STRY2	STRY3	PROY4	PROY5	PROY6
STR	1.00	0.25	0.97	0.10	0.07	-0.15
PRO	0.16	-0.02	0.08	0.34	0.46	0.11
LER	0.13	-0.02	-0.01	0.02	0.14	-0.14
EXC	0.07	-0.13	0.08	0.01	0.16	-0.03

## ETA

	PROY7	LERY8	LERY9	LERY10	EXCY11	EXCY12
	-----	-----	-----	-----	-----	-----
STR	0.06	0.03	0.02	0.19	-0.08	0.23
PRO	0.31	0.14	-0.01	0.22	0.09	0.16
LER	0.02	0.64	0.33	0.96	-0.01	0.04
EXC	0.03	0.04	-0.01	0.09	0.63	0.72

ETA

	EXCY13	EXCY14	LEAX1	LEAX2	LEAX3	LEAX4
	-----	-----	-----	-----	-----	-----
STR	-0.08	-0.04	-0.09	0.16	-0.07	0.02
PRO	-0.02	0.21	0.08	0.15	-0.07	0.18
LER	-0.03	0.01	-0.04	0.03	-0.08	0.23
EXC	0.23	0.92	0.09	0.01	-0.04	0.14

KSI

	STRY1	STRY2	STRY3	PROY4	PROY5	PROY6
	-----	-----	-----	-----	-----	-----
LEA	0.06	-0.03	0.00	-0.11	0.10	-0.02

KSI

	PROY7	LERY8	LERY9	LERY10	EXCY11	EXCY12
	-----	-----	-----	-----	-----	-----
LEA	0.01	0.10	-0.07	0.13	-0.01	0.16

KSI

	EXCY13	EXCY14	LEAX1	LEAX2	LEAX3	LEAX4
	-----	-----	-----	-----	-----	-----
LEA	-0.11	0.07	0.48	0.45	0.13	0.85

TI

Standardized Solution

LAMBDA-Y

	STR	PRO	LER	EXC
	-----	-----	-----	-----
STRY1	0.35	-	-	-
STRY2	0.23	-	-	-
STRY3	0.31	-	-	-
PROY4	-	0.38	-	-
PROY5	-	0.40	-	-
PROY6	-	0.34	-	-
PROY7	-	0.39	-	-
LERY8	-	-	0.44	-
LERY9	-	-	0.42	-
LERY10	-	-	0.49	-
EXCY11	-	-	-	0.25
EXCY12	-	-	-	0.29
EXCY13	-	-	-	0.25
EXCY14	-	-	-	0.31

LAMBDA-X

	LEA
	-----
LEAX1	0.43
LEAX2	0.47
LEAX3	0.43
LEAX4	0.48

BETA

	STR	PRO	LER	EXC
	-----	-----	-----	-----

STR	- -	- -	- -	- -
PRO	0.29	- -	- -	- -
LER	0.17	0.42	- -	- -
EXC	0.00	0.45	0.16	- -

## GAMMA

	LEA
STR	0.33
PRO	0.59
LER	0.25
EXC	0.18

## Correlation Matrix of ETA and KSI

	STR	PRO	LER	EXC	LEA
STR	1.00				
PRO	0.48	1.00			
LER	0.46	0.68	1.00		
EXC	0.35	0.68	0.57	1.00	
LEA	0.33	0.69	0.60	0.58	1.00

## PSI

Note: This matrix is diagonal.

	STR	PRO	LER	EXC
	0.89	0.45	0.49	0.51

## Regression Matrix ETA on KSI (Standardized)

	LEA
STR	0.33
PRO	0.69
LER	0.60
EXC	0.58

## TI

## Completely Standardized Solution

## LAMBDA-Y

	STR	PRO	LER	EXC
STRY1	0.68	- -	- -	- -
STRY2	0.45	- -	- -	- -
STRY3	0.65	- -	- -	- -
PROY4	- -	0.66	- -	- -
PROY5	- -	0.70	- -	- -
PROY6	- -	0.59	- -	- -
PROY7	- -	0.66	- -	- -
LERY8	- -	- -	0.78	- -
LERY9	- -	- -	0.75	- -
LERY10	- -	- -	0.87	- -
EXCY11	- -	- -	- -	0.60
EXCY12	- -	- -	- -	0.69
EXCY13	- -	- -	- -	0.59
EXCY14	- -	- -	- -	0.70

## LAMBDA-X

	LEA
LEAX1	0.78
LEAX2	0.75
LEAX3	0.71
LEAX4	0.84

## BETA

	STR	PRO	LER	EXC
STR	- -	- -	- -	- -
PRO	0.29	- -	- -	- -
LER	0.17	0.42	- -	- -
EXC	0.00	0.45	0.16	- -

## GAMMA

	LEA
STR	0.33
PRO	0.59
LER	0.25
EXC	0.18

## Correlation Matrix of ETA and KSI

	STR	PRO	LER	EXC	LEA
STR	1.00	- -	- -	- -	- -
PRO	0.48	1.00	- -	- -	- -
LER	0.46	0.68	1.00	- -	- -
EXC	0.35	0.68	0.57	1.00	- -
LEA	0.33	0.69	0.60	0.58	1.00

## PSI

Note: This matrix is diagonal.

	STR	PRO	LER	EXC
STR	0.89	- -	- -	- -
PRO	- -	0.45	- -	- -
LER	- -	- -	0.49	- -
EXC	- -	- -	- -	0.51

## THETA-EPS

	STRY1	STRY2	STRY3	PROY4	PROY5	PROY6
STRY1	0.54	- -	- -	- -	- -	- -
STRY2	- -	0.80	- -	- -	- -	- -
STRY3	-0.22	- -	0.57	- -	- -	- -
PROY4	-0.05	- -	- -	0.56	- -	- -
PROY5	- -	- -	- -	0.05	0.50	- -
PROY6	- -	- -	0.09	- -	0.08	0.65
PROY7	- -	- -	- -	- -	- -	0.20
LERY8	- -	- -	- -	-0.05	- -	- -
LERY9	-0.07	- -	0.06	- -	- -	0.06
LERY10	-0.07	- -	- -	- -	-0.08	0.04
EXCY11	- -	0.09	- -	- -	- -	- -
EXCY12	-0.05	- -	-0.07	- -	- -	- -
EXCY13	- -	- -	- -	- -	- -	- -
EXCY14	- -	0.06	- -	- -	-0.08	- -

## THETA-EPS

	PROY7	LERY8	LERY9	LERY10	EXCY11	EXCY12
PROY7	0.56	- -	- -	- -	- -	- -
LERY8	- -	0.39	- -	- -	- -	- -
LERY9	- -	- -	0.43	- -	- -	- -
LERY10	- -	-0.19	-0.08	0.25	- -	- -
EXCY11	- -	- -	- -	- -	0.64	- -
EXCY12	- -	- -	- -	- -	- -	0.53
EXCY13	- -	- -	- -	- -	- -	0.08
EXCY14	- -	- -	- -	- -	-0.19	-0.14

## THETA-EPS

EXCY13	EXCY14
--------	--------

EXCY13	-----	-----
	0.65	
EXCY14	- -	0.51

## THETA-DELTA-EPS

	STRY1	STRY2	STRY3	PROY4	PROY5	PROY6
	-----	-----	-----	-----	-----	-----
LEAX1	- -	- -	- -	- -	- -	- -
LEAX2	-0.10	- -	- -	- -	-0.06	- -
LEAX3	- -	- -	- -	0.11	- -	- -
LEAX4	- -	- -	- -	0.06	- -	- -

## THETA-DELTA-EPS

	PROY7	LERY8	LERY9	LERY10	EXCY11	EXCY12
	-----	-----	-----	-----	-----	-----
LEAX1	- -	- -	- -	- -	- -	- -
LEAX2	- -	- -	- -	- -	- -	- -
LEAX3	- -	- -	- -	- -	- -	- -
LEAX4	- -	-0.08	- -	-0.07	- -	-0.08

## THETA-DELTA-EPS

	EXCY13	EXCY14
	-----	-----
LEAX1	- -	-0.05
LEAX2	0.05	- -
LEAX3	- -	- -
LEAX4	- -	- -

## THETA-DELTA

	LEAX1	LEAX2	LEAX3	LEAX4
	-----	-----	-----	-----
LEAX1	0.39	- -	- -	- -
LEAX2	0.02	0.43	- -	- -
LEAX3	- -	- -	0.50	- -
LEAX4	-0.14	-0.17	- -	0.29

## Regression Matrix ETA on KSI (Standardized)

	LEA
	-----
STR	0.33
PRO	0.69
LER	0.60
EXC	0.58

TI

## Total and Indirect Effects

## Total Effects of KSI on ETA

	LEA
	-----
STR	0.33
	(0.06)
	5.72
PRO	0.69
	(0.06)
	10.68
LER	0.60
	(0.05)
	11.02
EXC	0.58
	(0.06)



9.01

## Indirect Effects of KSI on ETA

	LEA
STR	- -
PRO	0.09 (0.03) 3.37
LER	0.35 (0.06) 5.85
EXC	0.40 (0.07) 5.96

## Total Effects of ETA on ETA

	STR	PRO	LER	EXC
STR	- -	- -	- -	- -
PRO	0.29 (0.08) 3.64	- -	- -	- -
LER	0.29 (0.08) 3.87	0.42 (0.09) 4.49	- -	- -
EXC	0.18 (0.07) 2.65	0.51 (0.11) 4.73	0.16 (0.07) 2.15	- -

Largest Eigenvalue of  $B*B'$  (Stability Index) is 0.408

## Indirect Effects of ETA on ETA

	STR	PRO	LER	EXC
STR	- -	- -	- -	- -
PRO	- -	- -	- -	- -
LER	0.12 (0.04) 3.08	- -	- -	- -
EXC	0.18 (0.05) 3.19	0.07 (0.03) 2.14	- -	- -

## Total Effects of ETA on Y

	STR	PRO	LER	EXC
STRY1	0.35	- -	- -	- -
STRY2	0.23 (0.05) 4.86	- -	- -	- -
STRY3	0.31	- -	- -	- -

	(0.04)			
	7.15			
PROY4	0.11	0.38	--	--
	(0.03)			
	3.64			
PROY5	0.12	0.40	--	--
	(0.03)	(0.03)		
	3.65	13.00		
PROY6	0.10	0.34	--	--
	(0.03)	(0.03)		
	3.59	10.32		
PROY7	0.11	0.39	--	--
	(0.03)	(0.03)		
	3.64	11.46		
LERY8	0.13	0.18	0.44	--
	(0.03)	(0.04)		
	3.87	4.49		
LERY9	0.12	0.18	0.42	--
	(0.03)	(0.04)	(0.03)	
	3.80	4.50	12.93	
LERY10	0.14	0.21	0.49	--
	(0.04)	(0.05)	(0.04)	
	3.87	4.57	12.38	
EXCY11	0.04	0.13	0.04	0.25
	(0.02)	(0.03)	(0.02)	
	2.65	4.73	2.15	
EXCY12	0.05	0.15	0.05	0.29
	(0.02)	(0.03)	(0.02)	(0.03)
	2.69	4.87	2.16	9.23
EXCY13	0.04	0.13	0.04	0.25
	(0.02)	(0.03)	(0.02)	(0.03)
	2.66	4.76	2.14	9.12
EXCY14	0.05	0.16	0.05	0.31
	(0.02)	(0.03)	(0.02)	(0.03)
	2.68	4.88	2.16	9.18

## Indirect Effects of ETA on Y

	STR	PRO	LER	EXC
	-----	-----	-----	-----
STRY1	--	--	--	--
STRY2	--	--	--	--
STRY3	--	--	--	--
PROY4	0.11	--	--	--
	(0.03)			
	3.64			
PROY5	0.12	--	--	--
	(0.03)			
	3.65			
PROY6	0.10	--	--	--
	(0.03)			
	3.59			
PROY7	0.11	--	--	--

	(0.03)			
	3.64			
LERY8	0.13	0.18	--	--
	(0.03)	(0.04)		
	3.87	4.49		
LERY9	0.12	0.18	--	--
	(0.03)	(0.04)		
	3.80	4.50		
LERY10	0.14	0.21	--	--
	(0.04)	(0.05)		
	3.87	4.57		
EXCY11	0.04	0.13	0.04	--
	(0.02)	(0.03)	(0.02)	
	2.65	4.73	2.15	
EXCY12	0.05	0.15	0.05	--
	(0.02)	(0.03)	(0.02)	
	2.69	4.87	2.16	
EXCY13	0.04	0.13	0.04	--
	(0.02)	(0.03)	(0.02)	
	2.66	4.76	2.14	
EXCY14	0.05	0.16	0.05	--
	(0.02)	(0.03)	(0.02)	
	2.68	4.88	2.16	

## Total Effects of KSI on Y

	LEA
	-----
STRY1	0.11
	(0.02)
	5.72
STRY2	0.07
	(0.02)
	4.19
STRY3	0.10
	(0.02)
	5.61
PROY4	0.26
	(0.02)
	10.68
PROY5	0.28
	(0.02)
	11.65
PROY6	0.23
	(0.02)
	10.15
PROY7	0.27
	(0.02)
	11.06
LERY8	0.26
	(0.02)
	11.02
LERY9	0.25
	(0.02)
	10.79

LER Y10	0.29 (0.02) 11.92
EXCY11	0.15 (0.02) 9.01
EXCY12	0.17 (0.02) 9.66
EXCY13	0.14 (0.02) 8.72
EXCY14	0.18 (0.02) 10.01

TI

## Standardized Total and Indirect Effects

## Standardized Total Effects of KSI on ETA

	LEA
STR	0.33
PRO	0.69
LER	0.60
EXC	0.58

## Standardized Indirect Effects of KSI on ETA

	LEA
STR	- -
PRO	0.09
LER	0.35
EXC	0.40

## Standardized Total Effects of ETA on ETA

	STR	PRO	LER	EXC
STR	- -	- -	- -	- -
PRO	0.29	- -	- -	- -
LER	0.29	0.42	- -	- -
EXC	0.18	0.51	0.16	- -

## Standardized Indirect Effects of ETA on ETA

	STR	PRO	LER	EXC
STR	- -	- -	- -	- -
PRO	- -	- -	- -	- -
LER	0.12	- -	- -	- -
EXC	0.18	0.07	- -	- -

## Standardized Total Effects of ETA on Y

	STR	PRO	LER	EXC
STR Y1	0.35	- -	- -	- -
STR Y2	0.23	- -	- -	- -
STR Y3	0.31	- -	- -	- -
PRO Y4	0.11	0.38	- -	- -
PRO Y5	0.12	0.40	- -	- -

PROY6	0.10	0.34	- -	- -
PROY7	0.11	0.39	- -	- -
LERY8	0.13	0.18	0.44	- -
LERY9	0.12	0.18	0.42	- -
LERY10	0.14	0.21	0.49	- -
EXCY11	0.04	0.13	0.04	0.25
EXCY12	0.05	0.15	0.05	0.29
EXCY13	0.04	0.13	0.04	0.25
EXCY14	0.05	0.16	0.05	0.31

## Completely Standardized Total Effects of ETA on Y

	STR	PRO	LER	EXC
STRY1	0.68	- -	- -	- -
STRY2	0.45	- -	- -	- -
STRY3	0.65	- -	- -	- -
PROY4	0.19	0.66	- -	- -
PROY5	0.20	0.70	- -	- -
PROY6	0.17	0.59	- -	- -
PROY7	0.19	0.66	- -	- -
LERY8	0.23	0.33	0.78	- -
LERY9	0.22	0.32	0.75	- -
LERY10	0.25	0.36	0.87	- -
EXCY11	0.11	0.31	0.10	0.60
EXCY12	0.12	0.35	0.11	0.69
EXCY13	0.10	0.30	0.09	0.59
EXCY14	0.12	0.36	0.11	0.70

## Standardized Indirect Effects of ETA on Y

	STR	PRO	LER	EXC
STRY1	- -	- -	- -	- -
STRY2	- -	- -	- -	- -
STRY3	- -	- -	- -	- -
PROY4	0.11	- -	- -	- -
PROY5	0.12	- -	- -	- -
PROY6	0.10	- -	- -	- -
PROY7	0.11	- -	- -	- -
LERY8	0.13	0.18	- -	- -
LERY9	0.12	0.18	- -	- -
LERY10	0.14	0.21	- -	- -
EXCY11	0.04	0.13	0.04	- -
EXCY12	0.05	0.15	0.05	- -
EXCY13	0.04	0.13	0.04	- -
EXCY14	0.05	0.16	0.05	- -

## Completely Standardized Indirect Effects of ETA on Y

	STR	PRO	LER	EXC
STRY1	- -	- -	- -	- -
STRY2	- -	- -	- -	- -
STRY3	- -	- -	- -	- -
PROY4	0.19	- -	- -	- -
PROY5	0.20	- -	- -	- -
PROY6	0.17	- -	- -	- -
PROY7	0.19	- -	- -	- -
LERY8	0.23	0.33	- -	- -
LERY9	0.22	0.32	- -	- -
LERY10	0.25	0.36	- -	- -
EXCY11	0.11	0.31	0.10	- -
EXCY12	0.12	0.35	0.11	- -
EXCY13	0.10	0.30	0.09	- -
EXCY14	0.12	0.36	0.11	- -

## Standardized Total Effects of KSI on Y

LEA  
-----

STRY1	0.11
STRY2	0.07
STRY3	0.10
PROY4	0.26
PROY5	0.28
PROY6	0.23
PROY7	0.27
LERY8	0.26
LERY9	0.25
LERY10	0.29
EXCY11	0.15
EXCY12	0.17
EXCY13	0.14
EXCY14	0.18

## Completely Standardized Total Effects of KSI on Y

	LEA
STRY1	0.22
STRY2	0.15
STRY3	0.21
PROY4	0.45
PROY5	0.49
PROY6	0.41
PROY7	0.46
LERY8	0.47
LERY9	0.45
LERY10	0.52
EXCY11	0.35
EXCY12	0.40
EXCY13	0.34
EXCY14	0.41

Time used: 0.078 Seconds

มหาวิทยาลัยราชภัฏสุราษฎร์ธานี